Smarter Solutions for Home and Building Automation ABB i-bus® KNX Product Range Overview 2019

Product description, quick and easy selection of product codes

The right reaction comes automatically, in every situation. Being able to automatically control your building not only adds flexibility to building management, it has a positive effect on efficiency, security and productivity too. With products and services such as movement detectors, harmonious lighting, door communication, automated heating, air-conditioning, ventilation and shutter management, ABB offers a range of possibilities to put building control firmly into your hands.

Everything under control, wherever you want it. There's more to making buildings smarter than just remotely controlling room temperatures or automatically controlling lighting. A fully integrated system not only offers you convenience, it also makes your buildings more secure, more energy efficient and will save you money. What's more, ABB Ability™ software gives you a complete overview of your smart buildings from anywhere, at any time.

Wherever energy comes from, it goes to the right place. Electricity is a commodity you don't always appreciate until it's suddenly not there. At ABB it's our mission to supply you with the electricity you need, the moment you need it – such as when plugging in an appliance or turning on a switch. We take high-voltage energy from the source of generation and transmit it instantly to the business or home where it will be used.

The best solution is, keeping all the factors in view. The first step in managing your building's energy is to understand exactly how much you use and where you use it. With this information at hand, you can highlight areas for improvement, which in turn will help you become more efficient and ultimately save money. ABB metering devices connect with your building's automation system and intelligently acquire, store and analyse this information to drive efficiency for the long term.

# Smarter Solutions for Home and Building Automation ABB i-bus® KNX Product Range Overview 2019

You may also visit our KNX website:

CONNECTIVITY

Shaping the future of the digital world today requires fully automated solutions that can be networked with all other intelligent devices.
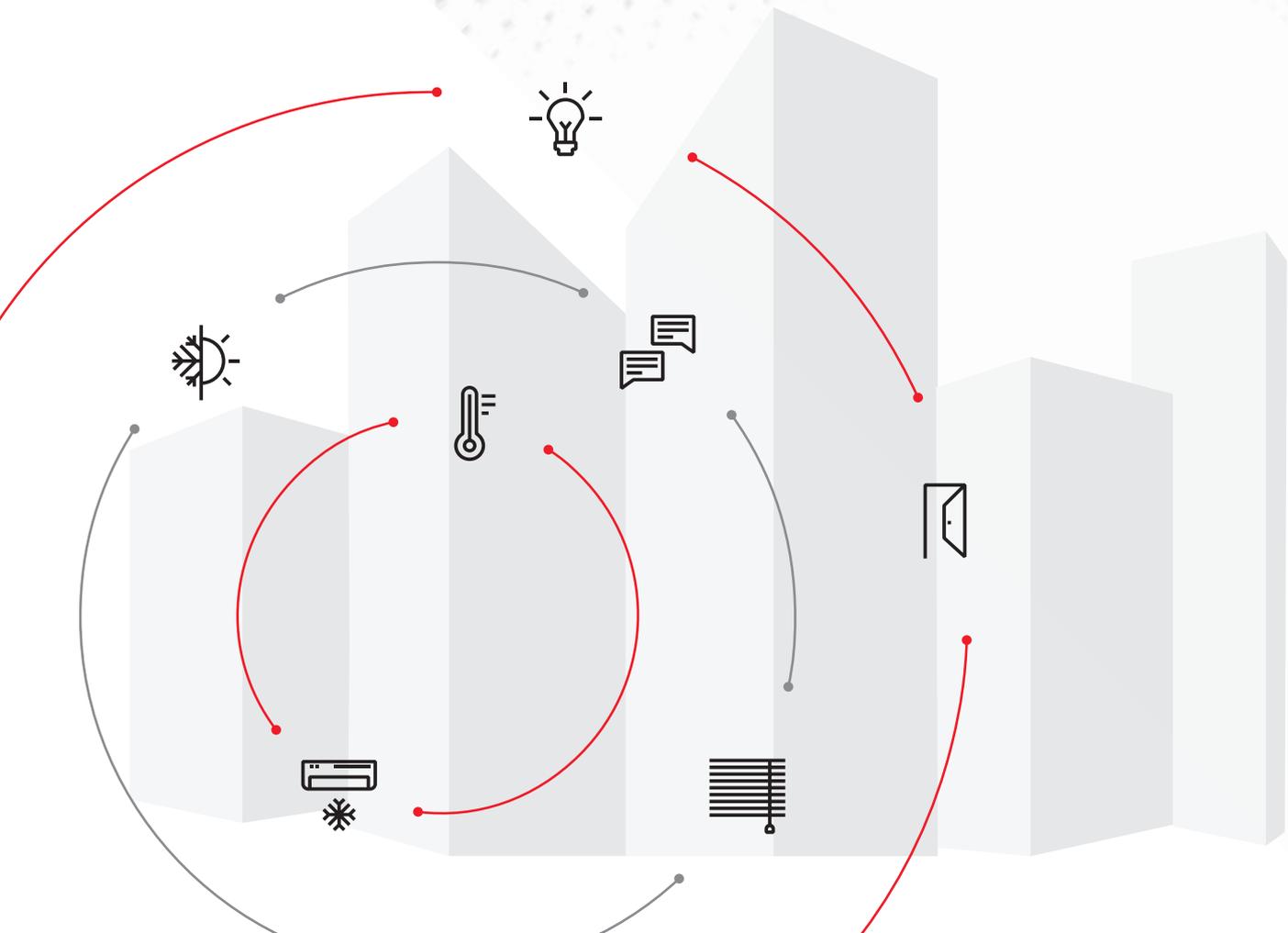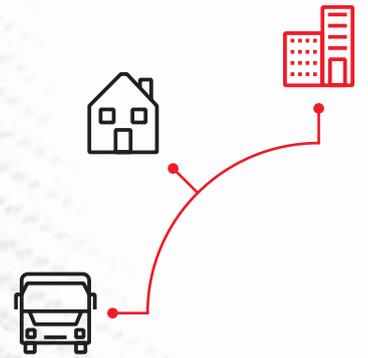
Powerful digital solutions in a single portfolio

MyBuildings portal powered by ABB Ability™

Controlling and planning smart buildings is now easier than ever: ABB bundles its digital services for Smarter Home and Building in the MyBuildings portal (formerly my.abb-livingspace. com) under the ABB Ability umbrella. The online portal gives you access to many of ABB's tools and services that you can use for your individual needs. You have the option to configure KNX systems, fire alarm technology, door entry system or ABB-tacteo KNX as well as to extend system functionality with remote access or Amazon Alexa voice control. You can also connect your smart system to a mobile device.

You may also visit our MyBuildings portal under mybuildings.abb.com:

Plan, configure and modify as desired with the MyBuildings portal powered by ABB Ability™

—
Commissioning

Busch ControlTouch®
Remote access
Amazon Alexa voice control
Busch voice control

—
Planning und configuration

ABB-Welcome configurator
ABB-Terminal configurator
ABB-tacteo configurator

—
Operation

Remote access
Amazon Alexa voice control
Notifications
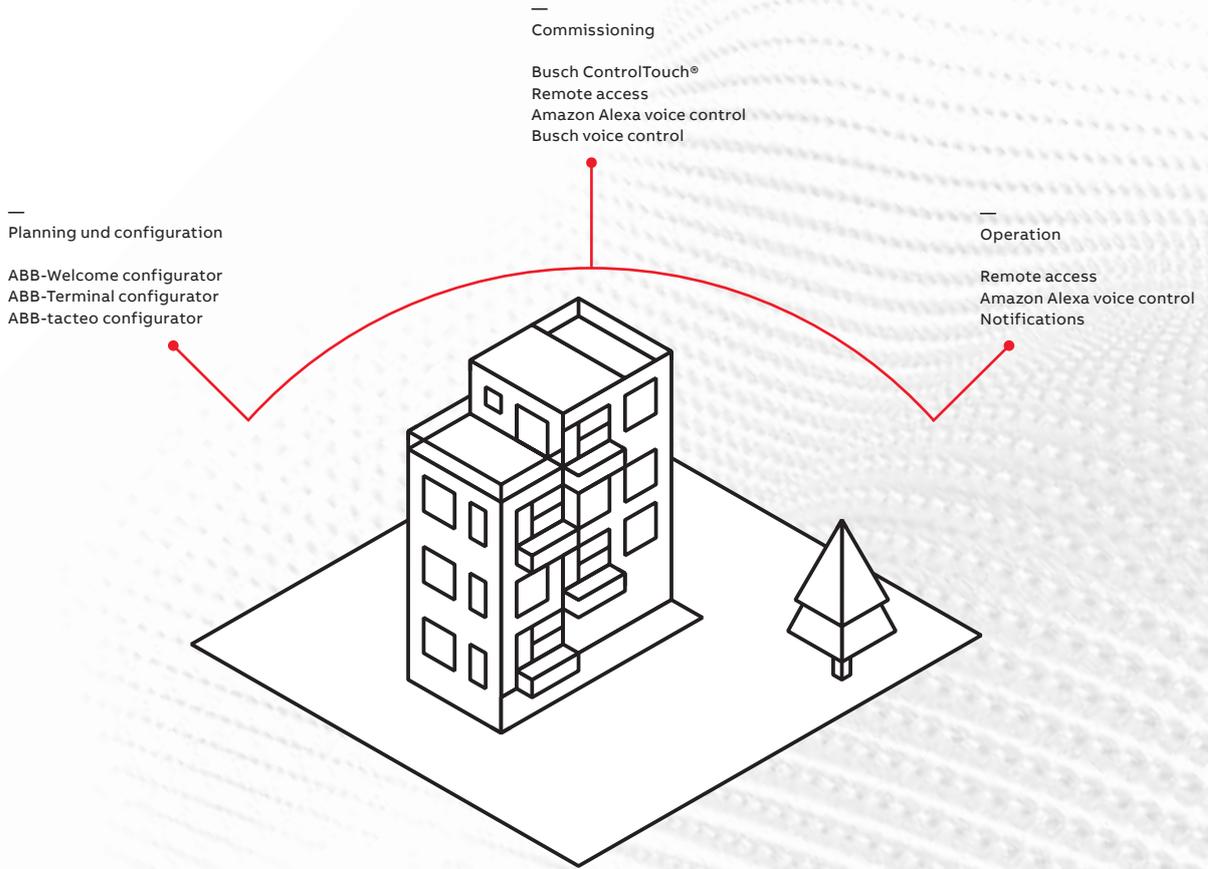
A central contact point for Smarter Building services.

Global availability of ABB services.

24/7 monitoring for best worldwide availability.

Regular cyber security: audits and tests by independent third parties.

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Overview

230 V
Mains Supply

Power
Supply

IP-Router

Programming (ETS),
Analysis
(i-bus® Tool),
Visualization

ETHERNET

KNXnet/IP, OPC,
Remote access,
Interfacing
to other systems

| Energy consumption measurement | - Energy Analyzer
- Energy Meter with Meter Interface Module
- Energy Module |

| Switch energy with and without current detection | - Switch Actuator |

| Switch energy with energy measurement | - Energy Actuator |

| Switch, dim and control light | - Universal Dim Actuator
- Switch/Dim Actuator 1–10 V
- Light Controller |

| Digital lighting control using DALI | - DALI Gateway
- DALI Light Controller |

| Control of shutters, blinds and ventilation flaps with and without automatic travel time detection | - Blind/Roller Shutter Actuator
- SMI Blind-/Roller Shutter Actuator |

| Heating/cooling via valve control | - Holistic HVAC solution ClimaECO
- Valve Drive Actuator
- Electromotor Valve Drive
- EFAN Coil Controller
- Central HVAC Controller |

| Ventilation/climatization | - Blower/Fan Coil Actuator
- Fan Coil Actuator and Controller |

| Room solutions with integrated sensor and actuator functions | Room Master devices with different combinations of inputs and outputs and internal logical connections | Room Controller with functional modules |

KNX-Main Line/TP

Line   1   2   3   4   13   14   15

- 64 devices/line
- 15 lines/area with superordinated main line
- max. 15 areas with superordinated area line

Power Supply

Line Coupler
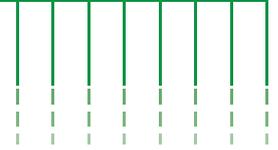
- Binary Input

**Detect and evaluate switching commands**

- Analogue Input

Capture, evaluate and monitor physical values

- Weather Station and Weather Sensor
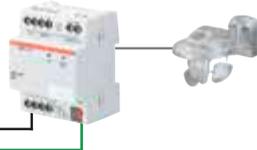
Evaluate and monitor meteorological data (wind, temperature, rain, etc.)

Remote control via internet

Display operating conditions and control functions

- Presence Detector
- Movement Sensor
- Light Sensor

Detect presence and movement

Measure brightness levels

Lighting Control

- Logic Module
- Application Unit Logic
- Application Unit Time
- Time Switch
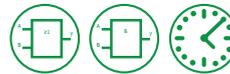
Perform logical operations and trigger timer-controlled functions

- Room Thermostat
- Air Quality Sensor

Capture, evaluate, monitor and control room conditions, temperature, air quality, etc.

- Security Terminal
- Security Module
- KNX Security Panel
- Fault Monitoring Unit
- Monitoring Unit
- Data Logging Unit

12 V

Security System

Monitor operating conditions, signal technical faults, recognize hazards and trigger alarms

- Room outside sensor with card reader
- Transponder Card
- Configuration Software

Access Control system for hotel rooms

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Power Supply

	Standard			Diagnostic		Uninter-ruptible
	SV/S 30.160.1.1	SV/S 30.320.1.1	SV/S 30.640.3.1	SV/S 30.320.2.1	SV/S 30.640.5.1	SU/S 30.640.1
General						
Supply voltage	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (85...265 V AC)	100 – 240 V AC (85...265 V AC)	230 V AC (210...240 V AC)
Type of installation	MDRC	MDRC	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	4	4	4	4	4	8
Rated current I_n	160 mA	320 mA	640 mA	320 mA	640 mA	640 mA
Rated voltage U_n	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC	30 V DC
Back-up						
Mains failure back-up time without battery	200 ms	200 ms	200 ms	200 ms	200 ms	200 ms
Mains failure back-up time with new, fully charged battery up to	–	–	–	–	–	AM/S: 10 min SAK7: 2.5 h 2 x SAK7: 5 h 2 x SAK12: 11 h 2 x SAK7: 16 h
Choke						
Integrated choke	■	■	■	■	■	■
Extra Voltage output without choke (30 V DC)	–	–	■	–	■	–
Operation and indication						
Short-circuit and overload indication	■	■	■	■	■	■
Output voltage indication	■	■	■	■	■	■
Overload indication	■	■	■	■	■	■
Bus current indication	–	–	–	■	■	–
Telegram traffic indication	–	–	–	■	■	–
Communication error indication	–	–	–	■	■	–
Bus reset button and indication	–	–	–	■	■	–
Mains voltage indication	■	■	■	■	■	■
Battery voltage indication	–	–	–	–	–	■
Reporting						
Floating contact for fault reporting	–	–	–	–	–	■
Commissioning and diagnostic functions						
Control and diagnosis via ABB i-bus® Tool	–	–	–	■	■	–

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■ = Function is supported

– = Function is not supported

SV/S 30.160.1.1

Power Supply Standard, 160 mA, MDRC

KNX power supplies generate and monitor the KNX system voltage (SELV). The bus line is decoupled from the power supply by an integrated choke.
The voltage output is short-circuit and overload protected.
The two-color LED indicates device output status. With two-coloured status indicator and wide range input from 85…265 V AC, 50/60 Hz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.160.1.1	2CDG110144R0011		0.30	1

SV/S 30.320.1.1

Power Supply Standard, 320 mA, MDRC

KNX power supplies generate and monitor the KNX system voltage (SELV). The bus line is decoupled from the power supply by an integrated choke.
The voltage output is short-circuit and overload protected.
The two-color LED indicates device output status.
With two-coloured status indicator and wide range input from 85…265 V AC, 50/60 Hz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.320.1.1	2CDG110166R0011		0.30	1

SV/S 30.640.3.1

Power Supply Standard, 640 mA, MDRC

KNX power supplies generate and monitor the KNX system voltage (SELV). The bus line is decoupled from the power supply by an integrated choke. The voltage output is short-circuit and overload protected.
The two-color LED indicates device output status.
Device type SV/S 30.640.3.1 has an additional 30 V DC short-circuit and overload protected voltage output that can be used to power an additional bus line (in combination with a separate choke).
With two-coloured status indicator and wide range input from 85…265 V AC, 50/60 Hz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.640.3.1	2CDG110167R0011		0.30	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Power Supply

SV/S 30.320.2.1

Power Supply with Diagnostics, 320 mA, MDRC
Compact Power Supply with integrated choke. Quick diagnostics by LED display and ETS communication objects. Analysis of the operating state and the bus line possible by means of ABB i-bus® Tool.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.320.2.1	2CDG110145R0011		0.26	1

SV/S 30.640.5.1

Power Supply with Diagnostics, 640 mA, MDRC
Compact Power Supply with integrated choke. Quick diagnostics by LED display and ETS communication objects. Analysis of the operating state and the bus line possible by means of ABB i-bus® Tool. Additional voltage output to supply an additional line in conjunction with an additional choke.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SV/S 30.640.5.1	2CDG110146R0011		0.26	1

SU/S 30.640.1

Uninterruptible Power Supply, 640 mA, MDRC
Power supply with integrated choke for supplying a bus line from an uninterrupted supply. Quick diagnostics via LED display for operational readiness, fault and battery level as well as a floating contact for a fault signal indication. The accumulator module or up to 2 recharge-able batteries can be charged in normal operation by the voltage supply. The bus voltage is provided by the batteries in the event of a mains failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	SV/S 30.640.5.1	GHQ6310049R0111		0.55	1

AM/S 12.1

Battery Module, 12 V DC, MDRC
With lead-gel battery for use in uninterruptible power supply SU/S 30.640.1 and for main-taining the bus voltage during a mains failure for 10 minutes (at full load). Connection is made via 4-core standard cable.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	AM/S 12.1	GHQ6310062R0111		0.81	1

KS/K 4.1   **KS/K 2.1**

Cable Sets

For connection of sealed lead gel batteries SAK7, SAK12 and SAK17 to the uninterruptible KNX power supply SU/S 30.640.1 or the uninterruptible power supply NTU/S 12.2000.1. If only one battery is connected, the basic cable set KS/K 4.1 with integrated temperature sensor is to be used. In case two batteries are connected in parallel, the basic cable set KS/K 4.1 is to be used for the first battery and the extension cable set KS/K 2.1 is to used for the second battery. It is not permitted to connect more than two batteries in parallel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Basic	–	KS/K 4.1	GHQ6301910R0001		0.18	1
Extension	–	KS/K 2.1	GHQ6301910R0011		0.12	1

SAK17, SAK12, SAK7

Sealed Lead Acid Batteries, 12 V DC

For maintaining the bus voltage during a mains failure. For connection to the uninterruptible power supply SU/S 30.640.1 or the uninterruptible power supply NTU/S 12.2000.1. A maximum of two batteries of the same type can be connected in parallel. For connection, the cable sets KS/K 4.1 and KS/K 2.1 are to be used.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
7,2 Ah	–	SAK7	GHV9240001V0011		2.98	1
12 Ah	–	SAK12	GHV9240001V0012		4.66	1
18 Ah	–	SAK17	GHV9240001V0013		7.15	1

DR/S 4.1

Choke, MDRC

The device can be used together with the SV/S 30.640.5 to supply a second line. Integrated reset button for resetting the bus devices. Connection via connection terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	DR/S 4.1	2CDG110029R0011		0.16	1

NTI/Z 28.30.1

Commissioning Power Supply, 28 V DC, 30 mA

For temporary power supply of KNX devices during commissioning. The Euroconnector and plug-in terminal provide faster connection and supply of devices with manual operation (e.g. FCA/S).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	NTI/Z 28.30.1	2CDG110096R0011		0.14	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Power Supply

CP-D 24/2.5

Power Supply Units, MDRC

The supply units that can be used universally as auxiliary power supply in KNX installations or other SELV applications. The devices supply a regulated output voltage of 12 V DC or 24 V DC with a maximum output current of 0.42 A up to 4.2 A. The units are protected against overload, the output being able to sustain a continuous short circuit. LED indication of the status of the supply and output voltage. With a width between one to five modules only, the CP-D range power supplies are ideally suited for the installation in distribution panels. Optimized for world-wide applications: The CP-D power supplies can be supplied with a rated voltage of 100 – 240 V AC.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
12 V DC, 0.83 A	1	CP-D 12/0.83	1SVR427041R1000		0.07	1
12 V DC, 2.1 A	3	CP-D 12/2.1	1SVR427043R1200		0.20	1
24 V DC, 0.42 A	1	CP-D 24/0.42	1SVR427041R0000		0.07	1
24 V DC, 1.3 A	3	CP-D 24/1.3	1SVR427043R0100		0.20	1
24 V DC, 2.5 A	4	CP-D 24/2.5	2CDG120037R0011		0.25	1
24 V DC, 4.2 A	5	CP-D 24/4.2	1SVR427045R0400		0.39	1
Redundancy Unit for decoupling of two CP-D power supply units	2	CP-D RU	1SVR427049R0000		0.08	1

NT/S 12.1600

Power Supply Units, MDRC   **to be discontinued**

For connection of sealed lead gel batteries SAK7, SAK12 and SAK17 to the uninterruptible KNX power supply SU/S 30.640.1 or the uninterruptible power supply NTU/S 12.2000.1. If only one battery is connected, the basic cable set KS/K 4.1 with integrated temperature sensor is to be used. In case two batteries are connected in parallel, the basic cable set KS/K 4.1 is to be used for the first battery and the extension cable set KS/K 2.1 is to used for the second battery. It is not permitted to connect more than two batteries in parallel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
12 V DC, 1.6 A	4	NT/S 12.1600	GHQ6050056R0002		0.26	1
24 V DC, 1.6 A	4	NT/S 24.800	GHQ6050057R0002		0.26	1

NTU/S 12.2000.1

Uninterruptible Power Supply, 12 V DC, 2 A, MDRC

Power supply with integrated choke for supplying a bus line from an uninterrupted supply. Quick diagnostics via LED display for operational readiness, fault and battery level as well as a floating contact for a fault signal indication. The accumulator module or up to 2 rechargeable batteries can be charged in normal operation by the voltage supply. The bus voltage is provided by the batteries in the event of a mains failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	NTU/S 12.2000.1	2CDG110070R0011		0.43	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – System Infrastructure and Interfacing

	IP Router IPR/S 3.1.1		IP Router IPR/S 3.5.1	IP Interface IPS/S 3.1.1		Line Coupler LK/S 4.2	
General							
Auxiliary voltage	10…30 V DC or PoE IEEE 802.3af class 1		10…30 V DC or PoE IEEE 802.3af class 1	10…30 V DC or PoE IEEE 802.3af class 1		–	
Type of installation	MDRC		MDRC	MDRC		MDRC	
Application	IP Router/ 1.1	IP Router/ 2.0	IP Router Secure/ 1.0	IP Interface/ 1.1	IP Interface/ 2.0	Couple/1.1 or Repeat/1.1	Couple Repeat/2.1
ETS	ETS 3	ETS 4/5	ETS 5	ETS 3	ETS 4/5	ETS 3	ETS 4/5
Software functions							
KNX Secure	–	–	■	–	–	–	–
Number of tunneling servers	1	5	5	1	5	–	–
Number of unicast connections	10	10	10	–	–	–	–
Monitoring of bus voltage failure	■	■	■	–	–	–	–
Filter Group telegrams main group 0…13	■	■	■	–	–	■	■
Filter Group telegrams main group 14…31	–	■ (ETS 4.1.7 or higher)	■	–	–	–	■
Function Repeater	–	–	–	–	–	■	■
Commissioning and diagnostic functions							
Control and diagnosis via ABB i-bus® Tool	■	■	■	■	■	■	■
Firmware update (ABB i-bus® Tool or ETS App)	■	■	■	■	■	–	–
Unicast parameterization (ABB i-bus® Tool)	■	■	■	–	–	–	–

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■ = Function is supported

– = Function is not supported

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – System Infrastructure and Interfacing

LK/S 4.2

Line Coupler, MDRC
The line coupler is used in larger installations to connect KNX lines or areas. The lines or areas are galvanically isolated from one another. Telegrams can be filtered to simultaneously reduce the telegram traffic between lines or areas. With ETS 4 (V4.1.2 and higher) the complete group address range of the main groups 0…31 can be filtered. Within a line, the LK/S 4.2 can also be used as a line amplifier (repeater).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	LK/S 4.2	2CDG110171R0011		0.1	1

IPR/S 3.1.1

IP Router, MDRC
Connects the KNX bus with the Ethernet network. The device uses the KNXnet/IP protocol for communication (Routing and Tunneling). It can be used as a fast line and area coupler. The full filter table for main groups 0-31 is supported. KNX devices can be programmed via the LAN using ETS. For this and further clients 5 Tunneling Servers are available. The IP address can be fixed or can be received from a DHCP server. Power supply via 12…30 V DC or PoE (IEEE 802.3af class 1). The KNX Standard Communication (Multicast) can be switched off. In this case, up to 10 IPR/S 3.1.1 can communicate using unicast communication.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	IPR/S 3.1.1	2CDG110175R0011		0.11	1

IPR/S 3.5.1

IP Router Secure, MDRC   NEW
Connects the KNX bus with the Ethernet network and encrypts communication on the IP backbone. The device uses the KNXnet/IP Secure protocol for communication (Routing and Tunneling). It can be used as a fast line and area coupler. The full filter table for main groups 0-31 is supported. KNX devices can be programmed via the LAN using ETS. For this and further clients 5 Secure Tunneling Servers are available. The IP address can be fixed or can be received from a DHCP server. Power supply via 12…30 V DC or PoE (IEEE 802.3af class 1). The KNX Standard Communication (Multicast) can be switched off. In this case, up to 10 IPR/S 3.5.1 can communicate using unicast communication.
Available January 2019

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	IPR/S 3.5.1	2CDG110176R0011		0.11	1

IPS/S 3.1.1

IP Interface, MDRC
Connects the KNX bus with the Ethernet network. The device uses the KNXnet/IP protocol for communication (Tunneling). KNX devices can be programmed via the LAN using ETS. For this and further clients 5 Tunneling Servers are available. The IP address can be fixed or can be received from a DHCP server. Power supply via 12..30 V DC or PoE (IEEE 802.3af class 1).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	IPS/S 3.1.1	2CDG110177R0011		0.11	1

8186/03-500

IP Patch Panel PoE, MDRC
For the setup of small and medium-sized network installations. For the power supply of up to 3 terminal devices such as IP telephone or IP webcams direct via the network cable.
For all PoE applications of class 0 to 3, such as IP telephone, IP cameras, WLAN access points or PoE switches. External power supply via 8186/04 necessary.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	8186/03-500	2CKA008100A0344		0.28	1

8186/04-500

IP Power Supply PoE
For the setup of small and medium-sized network installations. For the power supply of patch panel PoE 3gang 8186/03. Nominal voltage: 100 – 240 V.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	8186/04-500	2CKA008100A0346			1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – System Infrastructure and Interfacing

IPM/S 1.1

IP Patch Module, MDRC

The IP Patch Module consists of an RJ-45 module and a mounting adapter for rail mounting.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	1	IPM/S 1.1	2CDG120036R0011		0.1	1

USB/S 1.1

USB Interface, MDRC

For connection of a PC via the USB port for programming and diagnostics from ETS3. Display of connection and data transfer via LED.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	USB/S 1.1	2CDG110008R0011		0.12	1

LL/S 1.1

Optical Fibre Interface, MDRC

The device is used to couple two sections of an bus line using an optical fibre link. Ideal for bridging longer distances or to avoid having to implement lightning and overvoltage protection when laying cables between buildings. Two devices are needed to complete a transmission link.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	LL/S 1.1	GHQ6050053R0001		0.28	1

EG/A 32.2.1

KNX/EnOcean Gateway, SM

To connect and integrate EnOcean devices into KNX networks with bidirectional data exchange. The KNX/EnOcean Gateway sends its data within the 868.3 MHz frequency band which is only approved for EnOcean in the European Union incl. Switzerland, Turkey & Norway. Please ensure that the product is suitable for application in the intended country of final installation and use before purchase. Dimensions: (L x W x H) 100 x 70 x 28.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	EG/A 32.2.1	2CDG120047R0011		0.1	1

MKE/A 1.868.1

Magnetic Contact EnOcean

The Magnetic Contact EnOcean is a surface mounted device for windows or doors recognizing opening or closing. The magnetic contact EnOcean communicates on this with a gateway via radio.

The frequency is 868.3 MHz. The interior range is up to 30 m, typically 5 – 10 m, depending on the structural conditions. When using the ABB i-bus® KNX/EnOcean Gateway EG/A 32.2.1, to link to the KNX-Bus, the signal strength can be measured with the ABB i-bus® Tool.
The magnetic contact supplies itself with power via a solar cell and does not require a battery or other supply voltage.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	MKE/A 1.868.1	2CDG120048R0011		0.1	1

6770-500

KNX TP/RF WaveLine Gateway, SM

Media converter with internal antenna for conversion of KNX RF WaveLine radio signals to KNX twisted pair networks with 24 channels. For the evaluation and transfer of up to 24 channels each with 4 sub-channels as transmitter or receiver. Simple operation due to "programming button" and display on the device. Is surface-mounted. The KNX/WaveLine Gateway is powered via KNX and does not require an additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6770-500	2CKA006770A0002		0.15	1

WaveLINE components are available in chapter WaveLINE wireless control.

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Connection and Wiring

DSM/S 1.1

Diagnosis and Protection Module, MDRC
Enables quick diagnosis of the bus state and indicates telegram traffic via an LED. A bus fault is indicated by contacts. The DSM also suppresses transient overvoltages and interference voltage spikes on the bus and thus protects the connected devices.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	DSM/S 1.1	2CDG110060R0011		0.11	1

VB/K ...

Wiring Jumpers
For the interconnection of devices with a bus connection terminal. The vertical and horizontal versions are matched to typical wiring applications.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
horizontal, 100 mm	–	VB/K 100.1	GHQ6301908R0003		0.06	10
horizontal, 200 mm	–	VB/K 200.1	GHQ6301908R0001		0.07	10
vertical, 270 mm	–	VB/K 270.1	GHQ6301908R0002		0.11	10
vertical, 360 mm	–	VB/K 360.1	GHQ6301908R0004		0.16	10

PS 1/4/6-KNX

PS-END 1-S

Busbars
For interconnection of the phase supply to multiple input terminals on devices such as SD/S, SA/S, 6197, … . They reduce the wiring effort and ensure safe interconnection. The PS 1/4/6 is prefabricated and can be used immediately. The PS 1/60/6 is cut to the desired length and sealed with end caps.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1 phase, 4 contacts	–	PS 1/4/6-KNX	2CDG924003R0011		0.012	10
1 phase, 60 contacts	–	PS 1/60/6-KNX	2CDG924004R0011		0.11	1
End Cap	–	PS-END 1-S	2CDL000001R0001		0.001	25

US/E 1

Connection Terminals
For connecting bus devices as well as for looping through or branching the bus cable. Available in black/red for use as bus connecting terminal, in blue as bus connecting terminal with surge protector and in white/yellow for use as a connecting terminal.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
black/red	–	BUSKLEMME	GHQ6301901R0001		0.01	50
white/yellow	–	KLEMME	GHQ6301902R0001		0.01	50
with surge protector	–	US/E 1	GHQ6310009R0001		0.01	1

STR/Z 1.50.1

Label Carrier

Snap-on label carrier consisting of transparent carrier plate and insertable blank paper labels.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Label Carrier, 50 pcs.	–	STR/Z 1.50.1	2CDG110149R0011		0.04	50

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Multifunction Room Automation –
Room Controller
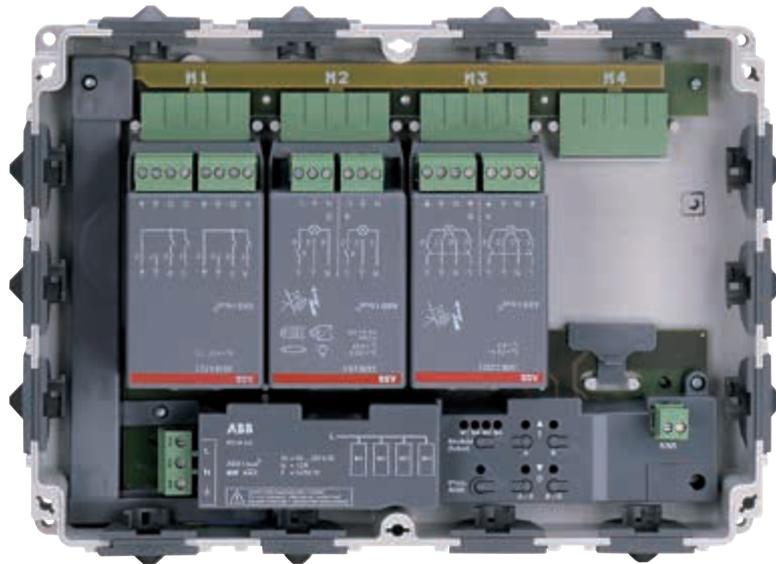
The fundamental principle: One device per room
A single Room Controller controls all the room functions.
This "one device per room" principle economically and flexibly provides KNX functionality: With 4 or 8 modules, which are simply inserted into the basis device, all loads in this room (lights, blinds, heating, etc.) can be controlled.

Economic security from the outset
The installation concept of the Room Controller, particularly the simple plug-in module concept, provides security and reliability.
• **When planning the infrastructure of a building:**
  - It can be undertaken without exact knowledge of the subsequent user demands.

• **During commissioning:**
  - When user demands have been determined, they are implemented by simple insertion of modules.
• **In operation in a building:**
  - Modifications to the room utilisation are easy to implement.
  - The changes to the cable routing are limited to the room concerned.
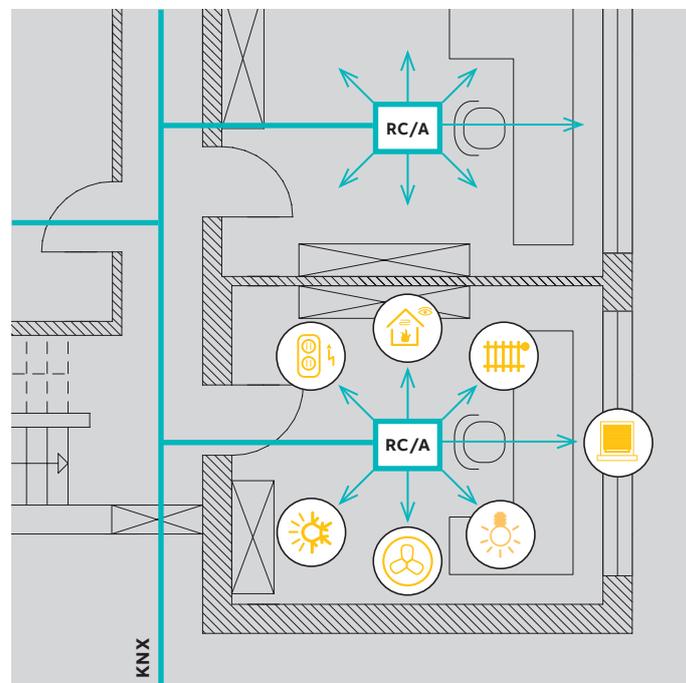
Improved fire protection included
The significant reduction in the wiring also considerably reduces the fire load and thus improves safety for persons and assets.

Save on energy and not on comfort
Each room is used differently. The different module assignments of the Room Controller can be configured accordingly.
Just three examples of special building functions that can be implemented with the device.

In the lighting sector
Constant lighting control is not the only conceivable solution.
A high level of comfort can be assured by the control of different light scenes.

Blinds and roller shutters
Not only do they provide pleasant shading, they also assist in responsible use of energy. Intelligent facade controls move the blinds to suit the position of the sun.

Heating/Ventilation/Air conditioning
The control of electrothermal valves on radiators is no problem for the "electronic switch actuator" module of the Room Controller. The ventilation can also be integrated into this automatic control.

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Multifunction Room Automation

Overview of switching performance

	SA/M 2.6.1	SA/M 2.16.1	SD/M 2.6.2	LR/M 1.6.2	UD/M 1.300.1	ES/M 2.230.1	ES/M 2.24.1
Outputs							
Load circuits	2 relay outputs	2 relay outputs, floating	2 relay outputs	1 relay output	Semiconductor output, dimmed via phase interval or phase control	2 semiconductor outputs for resistive loads, inrush current: max. 1 A, continuous current: max. 700 mA	2 semiconductor outputs for resistive loads, inrush current: max. 1 A, continuous current: max. 700 mA
U_n rated voltage	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC	115/230 V AC	115/230 V AC	24 V AC/DC
I_n rated current	6 AX	16 A	6 AX	6 AX		700 mA	700 mA
Control outputs	–	–	2 x 1…10 V DC (passive)	1 x 1…10 V DC (passive)	–	–	–
Max. control current	–	–	30 mA	30 mA	Max. output power 300 VA at 230 V AC 150 VA at 127 V AC Min. output power: 2 VA	–	–
Max. cable length	–	–	100 m	100 m	–	–	–
Switching current per output							
AC3 operation (cos φ = 0.45) EN 60 947-4-1	6 A / 230 V	8 A / 230 V	6 A / 230 V	6 / 230 V	–	–	–
AC1 operation (cos φ = 0.45) EN 60 947-4-1	6 A / 230 V	16 A / 230 V	6 A / 230 V	6 A / 230 V	–	–	–
Fluorescent lighting load AX to EN 60 669	6 A / 250 V (70 µF)	16 A / 250 V (70 µF)	6 A / 250 V (70 µF)	6 A / 250 V (70 µF)	–	–	–
Minimum switching capacity	100 mA / 12 V 100 mA / 24 V	100 mA / 12 V 100 mA / 24 V	100 mA / 12 V 100 mA / 24 V	100 mA / 12 V 100 mA / 24 V	–	–	–
DC current switching capacity (resistive load)	6 A / 24 V=	16 A / 24 V=	6 A / 24 V=	6 A / 24 V=	–	–	–

—

– = Not applicable

Overview of switching performance

	SA/M 2.6.1	SA/M 2.16.1	SD/M 2.6.2	LR/M 1.6.2	UD/M 1.300.1	ES/M 2.230.1	ES/M 2.24.1
Lamp loads at 230 V AC							
– Incandescent lamp load	1380 W	2300 W	1380 W	1380 W	–	–	–
Fluorescent lamps T5 / T8							
– Uncompensated	1380 W	2300 W	1380 W	1380 W	–	–	–
– Parallel compensated	1380 W	1500 W	1380 W	1380 W	–	–	–
– DUO connection	1380 W	1500 W	1380 W	1380 W	–	–	–
Low-volt halogen lamps							
– Inductive transformer	1200 W	1200 W	1200 W	1200 W	–	–	–
– Electronic transformer	1380 W	1500 W	1380 W	1380 W	–	–	–
– Halogen lamp 230 V	1380 W	2300 W	1380 W	1380 W	–	–	–
Dulux lamp							
– Uncompensated	1100 W	1100 W	1100 W	1100 W	–	–	–
– Parallel compensated	1100 W	1100 W	1100 W	1100 W	–	–	–
Mercury-vapour lamp							
– Uncompensated	1380 W	2000 W	1380 W	1380 W	–	–	–
– Parallel compensated	1380 W	2000 W	1380 W	1380 W	–	–	–
Switching capacity							
– Max. peak inrush-current Ip (150 µs)	400 A	400 A	400 A	400 A	–	–	–
– Max. peak inrush-current Ip (250 µs)	320 A	320 A	320 A	320 A	–	–	–
– Max. peak inrush-current Ip (600 µs)	200 A	200 A	200 A	200 A	–	–	–
Number of electronic ballasts (T5/T8, single element)							
– 18 W (ABB EVG 1x18 CF)	23	23	23	23	–	–	–
– 24 W (ABB EVG-T5 1x24 CY)	23	23	23	23	–	–	–
– 36 W (ABB EVG 1x36 CF)	14	14	14	14	–	–	–
– 58 W (ABB EVG 1x58 CF)	11	11	11	11	–	–	–
– 80 W (Helvar EL 1x80 SC)	10	10	10	10	–	–	–

Further technical specifications can be found in the corresponding product manuals at www.abb.com/knx

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– = Not applicable

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Multifunction Room Automation –
Room Controller Basis Devices
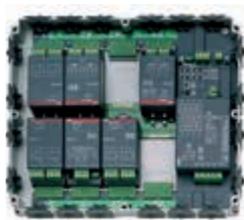
**Configuration example
RC/A 8.1**

Room Controller
The Room Controller controls all the functions in the room as a central device. Due to its modular design, it can be adapted flexibly to the required functionality.
On-site installation enables short assembly and commissioning times. A structured cable entry creates clarity and flexibility for changes in function – both during planning and operation.

Special features
- Height 50 mm: optimised for underfloor installation or suspended ceilings
- Room Controller counts as just one bus device
- Robust housing, IP 54 degree of protection
- Manual operation for immediate testing – even without bus voltage
- Comprehensive software functionality

RC/A 4.2

Room Controller, Basis Device for 4 Modules, SM
It accommodates up to 4 plug-in modules and controls their functions. The RC/A 4.2 communicates as a bus device. Any module type can be plugged into each module slot. A manual control for module function test is integrated. Dimensions: (H x W x D) 200 x 275 x 50.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RC/A 4.2	2CDG110104R0011		0.98	1

RC/A 8.2

Room Controller, Basis Device for 8 Modules, SM
It accommodates up to 8 plug-in modules and controls their functions. Any module type can be plugged into each module slot. The inserted module is automatically detected. The manual operation facility enables an immediate function test even when bus voltage is not applied. Dimensions: (H x W x D) 270 x 316 x 50.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RC/A 8.2	2CDG110106R0011		1.695	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Multifunction Room Automation –
Room Controller Function Modules

BE/M 4.230.1

Binary Input Modules, 4-fold
Each of the modules provides 4 inputs. There are 3 module types available for the connection of 115/230 V, 12/24 V (AC or DC) or floating contacts to cover all demands.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
230 V	–	BE/M 4.230.1	2CDG110005R0011		0.13	1
12/24 V	–	BE/M 4.24.1	2CDG110006R0011		0.13	1
Contact Scanning	–	BE/M 4.12.1	2CDG110007R0011		0.13	1

SA/M 2.6.1

Switch Actuator Module, 2-fold, 6 A
For switching loads up to 16 A at a maximum continuous current of 6 A.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SA/M 2.6.1	2CDG110002R0011		0.17	1

SA/M 2.16.1

Switch Actuator Module, 2-fold, 16 A, floating contact
For switching two loads up to 16 A. The switched voltage is independent of the basic device and is connected directly to the module.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SA/M 2.16.1	2CDG110100R0011		0.16	1

JA/M 2.230.1

Shutter Actuator Modules, 2-fold
For controlling two independent blind or shutter drives. There are two module types available for 115/230 V AC or 24 V DC drives.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
230 V AC	–	JA/M 2.230.1	2CDG110003R0011		0.17	1
24 V DC	–	JA/M 2.24.1	2CDG110004R0011		0.17	1

SD/M 2.6.2

Switch/Dim Actuator Module, 2-fold, 6 AX
It enables the switching and dimming of two groups of luminaries in conjunction with electronic ballasts via a 1…10 V control voltage. Enhanced switching capacity.
(Replaces the SD/M 2.6.1).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SD/M 2.6.2	2CDG110107R0011		0.17	1

—

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Multifunction Room Automation –
Room Controller Function Modules

LR/M 1.6.2

Light Controller Module, 1-fold, 6 AX

Enables switching and dimming of a lighting group via 1…10 V control voltage. The device can be used for constant lighting control in conjunction with Light Sensor LF/U 2.1. (Replaces the LR/M 1.6.1).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	LR/M 1.6.2	2CDG110108R0011		0.13	1

UD/M 1.300.1

Universal Dim Actuator Module, 1-fold, 300 VA

For dimming incandescent lamps, 230 V or low-voltage halogen lamps up to 300 W/VA. The automatic load detection detects the connected load and optimises the control. The minimum load is just 2 W.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	UD/M 1.300.1	2CDG110012R0011		0.18	1

ES/M 2.230.1

Electronic Switch Actuator Module, 2-fold

With 2 overload-proof outputs for noiseless control of heating systems and chilled ceilings via thermoelectric valve drives. Two module types for voltages from 115/230 V or 24 V (AC or DC) are available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
115/230 V	–	ES/M 2.230.1	2CDG110013R0011		0.15	1
24 V	–	ES/M 2.24.1	2CDG110014R0011		0.15	1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Multifunction Room Automation –
Room Master

	Room Master Basic RM/S 1.1	Room Master Premium RM/S 2.1	Room Master RM/S 3.1	Room Master RM/S 4.1
General				
Supply voltage	KNX	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	8	12	12	8
Current consumption, bus	< 12 mA	< 24 mA	< 12 mA	< 12 mA
Inputs				
Binary inputs (for potential free contacts via contact scanning)	8	18	12	8
Outputs				
Switching capacity 20 A (16 AX) [1]	1	3	4	–
Switching capacity 16 A (10 AX) [2]	2	1	–	–
Switching capacity 6 A [3]	3 (configurable as switch or fan outputs)	12 (3 configurable as switch or fan outputs)	–	8
0.5 A electronic (electrothermal or motor valve drive control)	4	4	–	–
6 A changeover contact (Blind or Shutter control)	–	1	4 (configurable also as switch outputs)	–
Functions				
Lighting control (Switching)	■	■	■	■
Heating/Cooling (Electrothermal or motor valve drive control, 3-level fan speed control)	■	■	■	■
Shading control (Shutter, blinds or curtains)	–	■	–	–
Control of further loads via switched electrical sockets	■	■	■	■
Internal connection of inputs and outputs without group adresses	■	■	■	■
Scenes	■	■	■	■
Room scenarios	■	■	■	■
Application with preconfigured inputs and outputs	■	■	–	–
Programmable with predefined and tested example projects (ETS 4) for different fields of application (office, schools, hotel rooms, …)	–	–	■	–
Planning templates	–	–	■	–

—

■ = Function is supported

– = Function is not supported

1) = Switching capacity, see Switch Actuators SA/S x.16.5.1

2) = Switching capacity, see Switch Actuators SA/S x.10.2.1

3) = Switching capacity, see Switch Actuators SA/S x.6.1.1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Multifunction Room Automation –
Room Master

RM/S 1.1
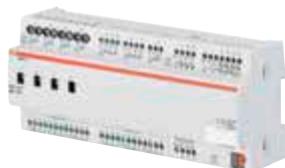
RM/S 2.1

RM/S 3.1

RM/S 4.1

Room Master

The Room Master is a KNX device with a combination of inputs and outputs. The quantities, technical data and the functions of these inputs and outputs are compiled, so that overall control of all the functions in rooms of a live-in character or apartments, are implemented via a device. Typical areas of application of the Room Master are hotel rooms, hospital rooms as well as apartments in institutions for residential care or in student residential homes. The Room Master with its compact design covers all the basic requirements for Lighting control Heating/Air conditioning Shading control (shutters, blinds or curtains - with the RM/S 2.1) Control of further loads via switched electrical sockets Function extensions are possible at any time, e.g. devices for dimming via ABB i-bus® KNX.

Overview of the inputs and outputs

	RM/S 1.1	RM/S 2.1	RM/S 3.1	RM/S 4.1	Application possibilities
Binary inputs via contact scanning	8	18	12	8	For connection of switches or push-buttons (light on/off, shutter up/down,etc.) or sensors (window contacts, door contacts, water sensors, condensation water sensors, hotel card readers, etc.)
Outputs 20 A (16 AX)	1	3	4	–	Bathroom fan, switching of electrical sockets
Outputs 16 A (10 AX)	2	1	–	–	Auxiliary electrical heating of fan-coil units (at RM/S 1.1 and 2.1), lighting
Outputs 6 A	3	12	–	8	3-speed fan control (at RM/S 1.1 and 2.1), lighting
Outputs 0.5 A electronic	4	4	–	–	Valve control (heating, cooling)
Outputs 6 A changeover contact	–	1	4 (configurable as switch outputs too)	–	Blind or roller blind control

- RM/S 1.1 and RM/S 2.1 are preprogrammed ex factory
- RM/S 3.1 and RM/S 4.1 are programmable with predefined and tested example projects (ETS 4) for different fields of application (office, schools, hotel rooms, …)
- Commissioning of the preprogrammed devices on the construction site without notebook and ETS programming. With the electrical connection all room functions are available.
- Optional functional extensions via integration into KNX networks with ETS software.

Further information about Room Master on www.abb.com/knx

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Inputs, Outputs, Fan Coil	8	RM/S 1.1	2CDG110094R0011		0.45	1
Inputs, Outputs, Blind Control, Fan Coil	12	RM/S 2.1	2CDG110095R0011		0.76	1
Inputs, Outputs, Blind Control or Outputs	12	RM/S 3.1	2CDG110165R0011		0.55	1
Inputs, Outputs	8	RM/S 4.1	2CDG110170R0011		0.3	1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Inputs

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Inputs

Wide-range inputs and a streamlined range – The ABB i-bus® KNX Binary Inputs.

ABB i-bus® KNX Binary Inputs serve as an interface for operation of KNX systems via conventional push buttons and switches as well as for processing binary signals (signalling contacts).

In contrast to the existing solutions, where the input voltages of 24 V and 230 V required separate devices, the Binary Inputs now feature **wide-range inputs**, which can process voltage signals ranging from 10 to 230 V AC/DC. This offers the **installer significantly greater flexibility.**

In addition to two devices with 4 and 8 wide-range inputs, the ABB i-bus® KNX Binary Input product range is rounded off by two devices with 4 and 8 inputs with scanning voltage. On these types, a pulsed scanning voltage is provided for connection of floating contacts from the device.

With an identical range of applications, the number of ABB i-bus® KNX Binary Inputs is now reduced from 6 types to 4.

All Binary Inputs feature **a high-quality membrane keypad for comfortable manual operation and display of the device functions.** Input states can be simulated at the device, so that the conventional push buttons, switches or floating contacts do not need to be connected for commissioning purposes. The device functions can be easily tested during commissioning in this way.

The Binary Inputs are powered via the KNX and do not require an additional power supply.

The software functionality of the Binary Inputs has also been extended. It is now possible to send **several switching telegrams with just a single push of a button.**
Especially useful, just as in the case of the Switch Actuators, it is also possible **to copy the channels of the device in the ETS.** The parameters and group addresses of a channel can be simply transferred to other channels in this way. This simplifies project engineering and helps reduce sources of error.

Application
- Operation of KNX systems via conventional push buttons and switches
- Processing of binary signals (signalling contacts)

Benefits
- Flexible application due to wide-range inputs
- Reduced stock requirement due to streamlined product range
- Simplified commissioning using the copy function

Product
- BE/S 4.20.2.1 with 4 inputs for contact scanning and manual operation
- BE/S 4.230.2.1 with 4 wide-range inputs and manual operation
- BE/S 8.20.2.1 with 8 inputs for contact scanning and manual operation
- BE/S 8.230.2.1 with 8 wide-range inputs and manual operation

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Inputs

	BE/S 4.20.2.1	BE/S 4.230.2.1	BE/S 8.20.2.1	BE/S 8.230.2.1	US/U 2.2	US/U 4.2	US/U 12.2
General							
Voltage range	–	10…230 V	–	10…230 V	–	–	–
Voltage type	–	AC/DC	–	AC/DC	–	–	–
Contact scanning	■	–	■	–	■	■	■
Inputs	4	4	8	8	2	4	12
Type of installation	MDRC	MDRC	MDRC	MDRC	FM	FM	FM
Module width (space unit)	2	2	4	4	–	–	–
Switch sensor							
Send switch value after any edge	■	■	■	■	■	■	■
Send switch value after signal length and/or cyclically	■	■	■	■	■	■	■
Send switch value 1 cyclically	■	■	■	■	■	■	■
Send switch value 2	■	■	■	–	–	–	–
Send switch value 3	■	■	■	–	–	–	–
Difference between short and long operation	■	■	■	■	■	■	■
Dim sensor							
Start-stop dimming, step-by-step dimming	■	■	■	■	■	■	■
One-touch dimming	■	■	■	■	■	■	■
Shutter Sensor							
Shutter operation via a push button/switch	■	■	■	■	■	■	■
Shutter operation via two push buttons/switches	■	■	■	■	■	■	■
Value/Forced operation							
1 bit [0/1], 2 bit forced operation	■	■	■	■	■	■	■
1/2/4 bytes	■	■	■	■	■	■	■
Signed	■	■	■	■	–	–	–
3 byte, time, weekday	■	■	■	■	–	–	–
Control scene							
8 bit scene	■	■	■	■	■	■	■
Store scene	■	■	■	■	■	■	■
Switching sequence							
Several preset sequences can be set	■	■	■	■	■	■	■
Link several push buttons in a switching sequence (actuating number)	■	■	■	■	■	■	■

—

■ = Function is supported

– = Function is not supported

—

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Inputs

	BE/S 4.20.2.1	BE/S 4.230.2.1	BE/S 8.20.2.1	BE/S 8.230.2.1	US/U 2.2	US/U 4.2	US/U 12.2
Multiple operation							
Telegram for long operation	■	■	■	■	■	■	■
Multiple operation can be set	■	■	■	■	■	■	■
Pulse counter							
Adjustable data type and threshold values	■	■	■	■	■	■	–
Temporary counter activation	■	■	■	■	■	■	–
Send counter level cyclically	■	■	■	■	■	■	–
Manual operation							
Energy-saving mode	■	■	■	■	–	–	–
Enable/release manual operation	■	■	■	■	–	–	–
Manual operating status	■	■	■	■	–	–	–
Enable/release manual operation button per input	■	■	■	■	–	–	–
Input LED can be inverted	■	■	■	■	–	–	–
Special functions							
Copying and exchanging parameter settings	■	■	■	■	–	–	–
Enable/disable input	■	■	■	■	■	■	■
Adjustable debounce time and minimum signal time	■	■	■	■	■	■	■
Limit the number of telegrams	■	■	■	■	■	■	■
Device sends an "In operation" telegram	■	■	■	■			
Heating valve control (electric relay)	–	–	–	–	■	■	■
Switch LEDs	–	–	–	–	■	■	■

—

■ = Function is supported

– = Function is not supported

BE/S 8.230.2.1

Binary Inputs, 10 – 230 V AC/DC, MDRC

Detects AC/DC signals in the voltage range from 12…230 V. The state of the input is displayed via yellow LEDs. The binary inputs enable detection of independent input signals. The devices feature a manual operation pushbutton for each channel. The devices are powered via the ABB i-bus® and do not require an additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	2	BE/S 4.230.2.1	2CDG110091R0011		0.12	1
8-fold	4	BE/S 8.230.2.1	2CDG110093R0011		0.23	1

BE/S 4.20.2.1

Binary Inputs, Contact Scanning, MDRC

Scans floating contacts with internally generated scanning voltage. The state of the input is displayed via yellow LEDs. The binary inputs enable detection of independent input signals. The devices feature a manual operation pushbutton for each channel. The devices are powered via the ABB i-bus® and do not require an additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	2	BE/S 4.20.2.1	2CDG110090R0011		0.12	1
8-fold	4	BE/S 8.20.2.1	2CDG110092R0011		0.23	1

US/U 4.2

Universal Interface, FM

The universal interface has 2, 4 or 12 channels which can be parametrised as inputs or outputs with the ETS software. Conventional push-buttons, auxiliary contacts, LEDs and the electronic relay ER/U can be connected. The connecting cables can be extended up to 10 m. The contact scanning voltage and the supply voltage for the LEDs are made available by the device, the series resistors for the LEDs are integrated.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	–	US/U 2.2	GHQ6310074R0111		0.06	1
4-fold	–	US/U 4.2	GHQ6310070R0111		0.06	1
12-fold	–	US/U 12.2	2CDG110065R0011		0.06	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Inputs

AE/S 4.1.1.3

AE/A 2.1

Analogue Input
Used wherever analogue variables should be detected. The sophisticated housing concept of the surface mounted device and the screw terminals of the MDRC device enable quick and clear wiring and improve the speed of connection of the sensors.
Comprehensive range of adjustment for many typical sensors (1 – 10 V, 0(4) – 20 mA, 0 – 1 V, PT 100, PT 1000,…) for detection of temperature, brightness, fill levels, etc.
For active sensors the auxiliary voltage is supplied by AE/S 4.1.1.3; in case of AE/A 2.1 a separate auxiliary voltage supply is required.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, MDRC	4	AE/S 4.1.1.3	2CDG110190R0011		0.27	1
2-fold, SM	–	AE/A 2.1	2CDG110086R0011		0.30	1

WZ/S 1.3.1.2

WES/A 3.1

Weather Unit, MDRC and Weather Sensor, SM
It is used to detect and process weather data from weather sensor. It supplies data for twilight and brightness levels in 3 directions, rain, temperature, information on day/night, wind speed, date and time. An additional input for the connection of a PT - 1000 sensor is provided. Four value memories which can store up to 24 values each are available. The Weather Unit WZ/S 1.3.1.2 can be operated either with the new Weather Sensor WES/A 3.1 or with the former sensor WES/A 2.1. The Weather Unit also provides the supply voltage for the connected sensor. The Weather Unit has to be supplied with a operating voltage of 85 to 265 V AC. The Weather Unit supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.
The Weather Sensor WES/A 3.1 detects twilight, brightness in three directions, rain, temperature, day/night, wind speed and the date and time using a GPS module. An additional heating transformer is not required. The new Weather Sensor WES/A 3.1 can be connected to the new Weather Unit WZ/S 1.3.1.2 or to the former Weather Unit WZ/S 1.1.

| Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Weather Unit	4	WZ/S 1.3.1.2	2CDG110184R0011		0.20	1
Weather Sensor	–	WES/A 3.1	2CDG120046R0011		0.17	1

WS/S 4.1.1.2

Weather Station, 4-fold, MDRC
All common weather sensors for wind speed, wind direction, rain, amount of rain, brightness, light intensity, pyranometers, twilight, air pressure, humidity or temperature can be connected to the device. The power supply generates the 24 V DC voltage for external sensors (max. 300 mA). The device can be operated with 85 to 265 V AC, 50/60 Hz. The application software is configured for the detection of weather based data and enables quick sensor programming. The Weather Station supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	WS/S 4.1.1.2	2CDG110191R0011		0.27	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Outputs – A Complete Switch Actuator Range

Switch Actuators are responsible for reliable switching of different electrical loads in the KNX system.
Many different load situations are possible. ABB offers a suitable Switch Actuator for all application areas. The range has been rounded off with a series. Now 16/20 AX C-Load Switch Actuators with and without a current detection feature are available; each featuring 2, 4, 8 or 12 outputs.

In the following table, you will find an overview of the ABB i-bus® Switch Actuators and their type designations:

–	SA/S 2.6.2.1	SA/S 2.10.2.1	SA/S 2.16.2.1	SA/S 2.16.5.1	SA/S 2.16.6.1
SA/S 4.6.1.1	SA/S 4.6.2.1	SA/S 4.10.2.1	SA/S 4.16.2.1	SA/S 4.16.5.1	SA/S 4.16.6.1
SA/S 8.6.1.1	SA/S 8.6.2.1	SA/S 8.10.2.1	SA/S 8.16.2.1	SA/S 8.16.5.1	SA/S 8.16.6.1
SA/S 12.6.1.1	SA/S 12.6.2.1	SA/S 12.10.2.1	SA/S 12.16.2.1	SA/S 12.16.5.1	SA/S 12.16.6.1

Note:
The codes represent the following:

SA/S		=	**S**witch **A**ctuator, DIN Rail mounting
SA/S **x.**	x	=	Number of outputs
SA/S 8.**y.**	y	=	Rated current in Ampere A
SA/S 8.16.**1**	1	=	Standard without manual operation
SA/S 8.16.**2**	2	=	With manual operation
SA/S 8.16.**5**	5	=	C-Load (200 µF)
SA/S 8.16.**6**	6	=	C-Load with current detection
SA/S 8.16.6.**z**	z	=	Version

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Outputs

The following table provides and overview of the rated values, switching performance, lamp loads or the number of lamps, which can be connected to a contact:

	SA/S 4.6.1.1 SA/S 8.6.1.1 SA/S 12.6.1.1	SA/S 2.6.2.1 SA/S 4.6.2.1 SA/S 8.6.2.1 SA/S 12.6.2.1	SA/S 2.10.2.1 SA/S 4.10.2.1 SA/S 8.10.2.1 SA/S 12.10.2.1	SA/S 2.16.2.1 SA/S 4.16.2.1 SA/S 8.16.2.1 SA/S 12.16.2.1	SA/S 2.16.5.1 SA/S 4.16.5.1 SA/S 8.16.5.1 SA/S 12.16.5.1	SA/S 2.16.6.1 SA/S 4.16.6.1 SA/S 8.16.6.1 SA/S 12.16.6.1
I_n rated current (A)	6 A	6 AX	10 AX	16 A	16/20 AX C-Load	16/20 AX C-Load
U_n rated voltage (V)	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC
AC1 operation (cos φ = 0.8) DIN EN 60947-4-1	6 A	6 A	10 A	16 A	20 A	20 A
AC3 operation (cos φ = 0.45) DIN EN 60947-4-1	6 A	6 A	8 A	–[4]	16 A	16 A
C-Load switching capacity	–	–	–	–	20 A	20 A
Fluorescent lighting load AX to EN 60669-1	6 A (35 μF) [3]	6 AX (140 μF) [3]	10 AX (140 μF) [3]	16 A (70 μF) [3]	20 AX (200 μF) [3]	20 AX (200 μF) [3]
Minimum switching capacity	10 mA/12 V	100 mA/12 V	100 mA/12 V	100 mA/12 V	100 mA/12 V	100 mA/12 V
DC current switching capacity (resistive load)	6 A/24 V =	6 A/24 V =	10 A/24 V =	16 A/24 V =	20 A/24 V =	20 A/24 V =
Mechanical service life	> 10^7	> 3×10^6	> 3×10^6	> 3×10^6	> 10^6	> 10^6
Electronic endurance to IEC 60947-4-1:						
– Rated current AC1 (240 V/0.8)	100,000	100,000	100,000	100,000	100,000	100,000
– Rated current AC3 (240 V/0.45)	15,000	30,000	30,000	30,000	30,000	30,000
– Rated current AC5a (240 V/0.45)	15,000	30,000	30,000	30,000	30,000	30,000
Incandescent lamp load at 230 V AC	1,200 W	1,380 W	2,500 W	2,500 W	3,680 W	3,680 W
Fluorescent lamp T5 / T8:						
– Uncorrected	800 W	1,380 W	2,500 W	2,500 W	3,680 W	3,680 W
– Parallel compensated	300 W	1,380 W	1,500 W	1,500 W	2,500 W	2,500 W
– DUO circuit	350 W	1,380 W	1,500 W	1,500 W	3,680 W	3,680 W
Low-voltage halogen lamps:						
– Inductive transformer	800 W	1,200 W	1,200 W	1,200 W	2,000 W	2,000 W
– Electronic transformer	1,000 W	1,380 W	1,500 W	1,500 W	2,500 W	2,500 W
Halogen lamp 230 V	1,000 W	1,380 W	2,500 W	2,500 W	3,680 W	3,680 W
Dulux lamps:						
– Uncorrected	800 W	1,100 W	1,100 W	1,100 W	3,680 W	3,680 W
– Parallel compensated	800 W	1,100 W	1,100 W	1,100 W	3,000 W	3,000 W
Mercury-vapour lamps:						
– Uncorrected	1,000 W	1,380 W	2,000 W	2,000 W	3,680 W	3,680 W
– Parallel compensated	800 W	1,380 W	2,000 W	2,000 W	3,000 W	3,000 W
Sodium-vapour lamps:						
– Uncorrected	1,000 W	1,380 W	2,000 W	2,000 W	3,680 W	3,680 W
– Parallel compensated	800 W	1,380 W	2,000 W	2,000 W	3,000 W	3,000 W
Max. peak inrush-current Ip (150 μs)	200 A	400 A	400 A	400 A	600 A	600 A
Max. peak inrush-current Ip (250 μs)	160 A	320 A	320 A	320 A	480 A	480 A
Max. peak inrush-current Ip (600 μs)	100 A	200 A	200 A	200 A	300 A	300 A
Number of electronic ballasts (T5/T8, single element):[2]						
18 W (ABB ballasts 1 x 18 SF)	10 ballasts	23 ballasts	23 ballasts	23 ballasts	26[1] ballasts	26[1] ballasts
24 W (ABB ballasts 1 x 24 CY)	10 ballasts	23 ballasts	23 ballasts	23 ballasts	26[1] ballasts	26[1] ballasts
36 W (ABB ballasts 1 x 36 CF)	7 ballasts	14 ballasts	14 ballasts	14 ballasts	22 ballasts	22 ballasts
58 W (ABB ballasts 1 x 58 CF)	5 ballasts	11 ballasts	11 ballasts	11 ballasts	12[1] ballasts	12[1] ballasts
80 W (Helvar EL 1 x 80 SC)	3 ballasts	10 ballasts	10 ballasts	10 ballasts	12[1] ballasts	12[1] ballasts

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1) = The number of ballasts is limited by the protection with B16/B20 circuit-breakers.

2) = For multiple element lamps or other types, the number of electronic ballasts must be determined using the peak inrush current of the electronic ballasts.

3) = The maximum peak inrush current may not be exceeded.

4) = Not intended for AC3 operation, see Technical Data for maximum AC3 current.

The following table provides an overview of the functions possible with the Switch Actuators and their application programs:

	SA/S 4.6.1.1 SA/S 8.6.1.1 SA/S 12.6.1.1	SA/S 2.6.2.1 SA/S 4.6.2.1 SA/S 8.6.2.1 SA/S 12.6.2.1	SA/S 2.10.2.1 SA/S 4.10.2.1 SA/S 8.10.2.1 SA/S 12.10.2.1	SA/S 2.16.2.1 SA/S 4.16.2.1 SA/S 8.16.2.1 SA/S 12.16.2.1	SA/S 2.16.5.1 SA/S 4.16.5.1 SA/S 8.16.5.1 SA/S 12.16.5.1	SA/S 2.16.6.1 SA/S 4.16.6.1 SA/S 8.16.6.1 SA/S 12.16.6.1
Type of installation	MDRC	MDRC	MDRC	MDRC	MDRC	MDRC
Number of outputs	4/8/12	2/4/8/12	2/4/8/12	2/4/8/12	2/4/8/12	2/4/8/12
Module width (space unit)	4/6/8	2/4/8/12	2/4/8/12	2/4/8/12	2/4/8/12	2/4/8/12
Manual operation	–	■	■	■	■	■
Contact position display	–	■	■	■	■	■
I_n rated current (A)	6 A	6 AX	10 AX	16 A	16/20 AX C-Load	16/20 AX C-Load
Current detection	–	–	–	–	–	■
Switch function						
– ON/OFF delay	■	■	■	■	■	■
– Staircase light	■	■	■	■	■	■
– Warning before end of staircase lighting	■	■	■	■	■	■
– Staircase lighting time set via object	■	■	■	■	■	■
– Flashing	■	■	■	■	■	■
– Switch response can be set (N.O./N.C.)	■	■	■	■	■	■
– Thresholds	■	■	■	■	■	■
Current detection	–	–	–	–	–	■
– Threshold value monitoring	–	–	–	–	–	■
– Measured value detection	–	–	–	–	–	■
Function Scene	■	■	■	■	■	■
Function Logic						
– Logic AND function	■	■	■	■	■	■
– Logic OR function	■	■	■	■	■	■
– Logic XOR function	■	■	■	■	■	■
– Gate function	■	■	■	■	■	■
Priority object/forced operation	■	■	■	■	■	■
Heating/fan control						
– Switch ON/OFF (2 point control)	■	■	■	■	■	■
– Cyclical fault monitoring	■	■	■	■	■	■
– Automatic purging	■	■	■	■	■	■
Fan Coil control [1]	■	■	■	■	■	■
Special functions						
– Default position on bus voltage failure/recovery	■	■	■	■	■	■
– Status messages	■	■	■	■	■	■

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■ = Function is supported

– = Function is not supported

1) = See special
ABB i-bus® KNX devices of the HVAC area, e.g. Blower actuator FCL/S or Fan Coil actuator FCA/S.

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Outputs

SA/S 8.6.1.1

Switch Actuator, 6 A, MDRC
Using floating contacts it switches 4, 8 or 12 independent electrical loads. The 6 A-AC3 devices are suited for switching resistive, inductive and capacitive loads. Please note: Increased module width compared to previous generation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	4	SA/S 4.6.1.1	2CDG110152R0011		0.18	1
8-fold	6	SA/S 8.6.1.1	2CDG110153R0011		0.27	1
12-fold	8	SA/S 12.6.1.1	2CDG110154R0011		0.35	1

SA/S 8.6.2.1

Switch Actuator with manual Operation, 6 A, MDRC
Switches 2, 4, 8 and 12 independent electrical loads using floating contacts. Every output can be operated manually and features display of the switching state. The 6 A-AC3 devices are suited for switching resistive, inductive and capacitive loads.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	2	SA/S 2.6.2.1	2CDG110180R0011		0.18	1
4-fold	4	SA/S 4.6.2.1	2CDG110181R0011		0.29	1
8-fold	8	SA/S 8.6.2.1	2CDG110182R0011		0.51	1
12-fold	12	SA/S 12.6.2.1	2CDG110183R0011		0.74	1

SA/S 4.10.2.1

Switch Actuator, 10 AX, MDRC
Switches 2, 4, 8 and 12 independent electrical loads using floating contacts.
Every output can be operated manually and features display of the switching state.
The 10AX-AC1 devices are especially suited for switching resistive, inductive and capacitive loads such as fluorescent lighting (AX) compliant to EN 60669.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	2	SA/S 2.10.2.1	2CDG110155R0011		0.18	1
4-fold	4	SA/S 4.10.2.1	2CDG110156R0011		0.29	1
8-fold	8	SA/S 8.10.2.1	2CDG110157R0011		0.51	1
12-fold	12	SA/S 12.10.2.1	2CDG110158R0011		0.74	1

Switch Actuator, 16 A, MDRC

Switches 2, 4, 8 and 12 independent electrical loads using floating contacts.
Every output can be operated manually and features display of the switching state.
The 16A-AC1 devices are suited for switching resistive, inductive and capacitive loads.

SA/S 8.16.2.1

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	2	SA/S 2.16.2.1	2CDG110159R0011		0.18	1
4-fold	4	SA/S 4.16.2.1	2CDG110160R0011		0.29	1
8-fold	8	SA/S 8.16.2.1	2CDG110161R0011		0.51	1
12-fold	12	SA/S 12.16.2.1	2CDG110162R0011		0.74	1
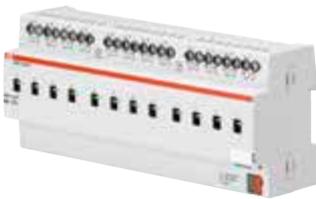
Switch Actuator, 16/20 AX, C-Load, MDRC

Uses floating contacts to switch independent electrical loads via ABB i-bus® KNX. Every output can be operated manually and features display of the switching state. The 16AX-AC3, C-Load devices are especially suited for switching loads with high surge currents such as luminaries with ballasts or fluorescent lighting (AX) according to EN 60669.

SA/S 12.16.5.1

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	2	SA/S 2.16.5.1	2CDG110132R0011		0.19	1
4-fold	4	SA/S 4.16.5.1	2CDG110133R0011		0.31	1
8-fold	8	SA/S 8.16.5.1	2CDG110134R0011		0.59	1
12-fold	12	SA/S 12.16.5.1	2CDG110137R0011		0.85	1

Switch Actuator with Current Detection, 16/20 AX, C-Load, MDRC

Switches with floating contacts, 2, 4, 8 or 12 independent electrical loads with high surge currents. The Switch Actuators feature a circuit for high precision current detection for each output that is used to monitor the connected circuits. Every output can be operated manually and features display of the switching state. The 16/20A, C-Load devices are especially suited for switching loads with high surge currents such as luminaries with ballasts or fluorescent lighting (AX) according to EN 60669.

SA/S 8.16.6.1

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	2	SA/S 2.16.6.1	2CDG110112R0011		0.21	1
4-fold	4	SA/S 4.16.6.1	2CDG110113R0011		0.38	1
8-fold	8	SA/S 8.16.6.1	2CDG110114R0011		0.69	1
12-fold	12	SA/S 12.16.6.1	2CDG110138R0011		0.90	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Outputs

6151/11 U-500

Switch Actuator, 1-fold, FM
For switching 230 V~ consumers. Equipped with two extension inputs which depending on parameterization can act directly on the switching output or alternatively as binary inputs on the KNX bus. One Normally open contact, potential free; switching voltage: 230 V AC; 50/60 Hz; max. switching current: 16 A; switching capacity: up to 2.500 W depending on the consumer. Rated voltage: 230 V~, +10% / –10%, 50 Hz – 60 Hz. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6151/11 U-500	2CKA006151A0245		0.11	1

IO/S 4.6.1.1

I/O Actuator, 6 A, MDRC
For the control of loads in residential areas, typically in hotel rooms and apartments. The I/O Actuators provide binary inputs for the connection of conventional push-buttons and outputs for switching loads. Inputs and outputs can be internally connected by ETS. By integrating the devices into KNX networks further functions can be realised: e.g. central control or room based emergency calls to a control centre.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	4	IO/S 4.6.1.1	2CDG110168R0011		0.17	1
8-fold	8	IO/S 8.6.1.1	2CDG110169R0011		0.30	1

AA/S 4.1.2

Analogue Actuator
The Analogue Actuators convert KNX telegrams in voltage or current signals. These analogue output signals are used to influence regulatory processes. For example, devices for heating, air conditioning or ventilation applications can be adjusted in their operation depending on the information, which are transmitted via the bus system. The Analogue Actuators are available in a 4-fold DIN rail version and a 2-fold device with surface mounting housing. The ABB i-bus® Tool is supported for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, MDRC	4	AA/S 4.1.2	2CDG110202R0011		0.19	1
2-fold, SM	4	AA/A 2.1.2	2CDG110203R0011		0.30	1

AA/A 2.1.2

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX –Shading Control

Modern building installation enables a high degree of functionality and simultaneously complies with increased security requirements. Due to the structured installation of the electrical components, it is possible to carry out rapid planning, installation and setup as well as achieve cost benefits during operation.

Modern sun protection devices have a significant role, as they must fulfil many demands:
• Anti-glare protection (e.g. PC workstations)
• Utilization of daylight by tracking the sun's position and directing available daylight
• Protecting furniture and carpets from fading
• Regulating the room temperature (overheating protection in summer; harvesting the available energy on cold days)
• Providing protection from people looking in from the outside
• Protection against intruders.

With the Blind/Roller Shutter Actuators JRA/S, the complex requirements on a sustainable and energy efficient automatic sun protection control can be implemented in offices, residential and functional buildings via ABB i-bus® KNX.

The Blind/Roller Shutter Actuators are ideal for the control of drives in the area of sun protection:
• Blinds, exterior blinds, slat blinds and panel curtains
• Roller shutters, roller blinds, screens, vertical blinds
• Awnings, pleated blinds, pleated curtains, etc.

Optimum room air quality via automatic ventilation
The demands for the reduction of energy consumption often results in poor ventilation in today's heavily insulated buildings. The quality of the room air does not comply with the desired and required level.
Natural ventilation is often an effective and efficient method for exchanging the "used" room air and improving the air quality in the room. If the air quality in the room is monitored with sensors (temperature, humidity, CO_2 concentration), the ventilation flaps can be opened automatically and in good time ensuring that the air quality is kept in a comfortable range.

Blind/Roller Shutter Actuators are ideal for control of ventilation elements such as
• Ventilation flaps
• Roof hatches, skylights
• Windows, doors and gates

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX –Shading Control

Automatic travel detection
Travel times for the connected drives can be easily determined during operation with the automatic travel detection feature. It saves time during setup. Furthermore, compensation of age and weather-related length changes to blinds or roller shutters is assured. It facilitates precise positioning of the blinds/shutter when using sun position-dependent control.

Diagnostics
Enhanced diagnostic messages can be issued with the Blind/Roller Shutter Actuators. They are particularly useful during setup or in the event of faults. It is possible, for example, to detect and signal if the power supply to a drive is interrupted.

Copy and exchange
This function allows parameter settings of an output to be copied or exchanged with other freely selectable outputs.
This is possible within a device or in conjunction with several devices. Copy and exchange is useful particularly on projects, where all drives of a facade are controlled identically.
It shortens the setup process and reduces the possible sources of error with parameterization.

Integration in the room temperature control
The intelligent and networked blind and roller shutter control plays an important role in the energy efficient usage of a building. The level of sunlight in the room and heating up due to the sun's energy can be controlled in conjunction with the room climate control. The software function "overheat control" prevents unintentional overheating of a room. The blinds are closed in good time. The shutter control can be actively involved in the room temperature control – a requirement for implementing high-efficient buildings compliant to EN 15232.

	Standard					SMI	
	JRA/S X.230.5.1	**JRA/S 4.24.5.1**	**JRA/S X.230.2.1**	**JRA/S X.230.1.1**	**JRA/S 6.230.3.1**	**SJR/S 4.24.2.1**	**JA/S 4.SMI.1M**
General							
Supply voltage	KNX	KNX	KNX	KNX	KNX	KNX	KNX
Nominal voltage	230 V AC	24 V DC	230 V AC	230 V AC	230 V AC	24 V DC	230 V AC
Auxiliary voltage	–	–	–	–	–	230 V AC	230 V AC
Type of installation			MDRC			MDRC	
Module width (18 mm)	2-fold: 4 4-fold: 4 8-fold: 8	4-fold: 4	2-fold: 4 4-fold: 4 8-fold: 8	2-fold: 4 4-fold: 4 8-fold: 8	6-fold: 12	4-fold: 4	4-fold: 4
Number of outputs	X = 2, 4, 8	4	X = 2, 4, 8	X = 2, 4, 8	6	4 x 4 SMI LoVo (broadcast)	4 x 4 SMI (broadcast)
Manual operation	■	■	■	–	–	■	■
Inputs							
Internal connection between Inputs and Outputs	–	–	–	–	■	–	–
Blind/shutter control; dimming and switching control; value sending	–	–	–	–	■	–	–
Manual functions							
Disable/enable manual operation	■	■	■	–	–	■	■
Status manual operation	■	■	■	–	–	■	■
Operating modes							
Control with slat adjustment (blinds, etc.)	■	■	■	■	■	■	■
Control without slat adjustment (shutters, awnings, etc.)	■	■	■	■	■	■	■
Ventilation flaps, switch mode	■	■	■	■	■	–	–
Direct mode							
Limit UP/DOWN/STOP	■	■	■	■	–	■	■
Slat adjustment	■	■	■	■	■	■	■
Position height/slat [0…255]	■	■	■	■	■	■	■
Preset Move to position/Set position	■	■	■	■	–	■	■
Limited UP/DOWN	■	■	■	■	–	■	■
Enable limitation	■	■	■	■	–	■	■
Trigger travel detection	■	■	–	–	–	–	–
Trigger reference movement	■	■	■	■	■	–	–
8-bit scene	■	■	■	■	■	■	■

—

■ = Function is supported

– = Function is not supported

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX –Shading Control

	Standard					SMI	
	JRA/S X.230.5.1	JRA/S 4.24.5.1	JRA/S X.230.2.1	JRA/S X.230.1.1	JRA/S 6.230.3.1	SJR/S 4.24.2.1	JA/S 4.SMI.1M
Safety							
Wind/Rain/Frost alarm	■	■	■	■	■	■	■
Disable control	■	■	■	■	–	■	■
Forced operation (1-bit and 2-bit)	■	■	■	■	–	■	■
Reaction after bus voltage failure/recovery, programming	■	■	■	■	■	■	■
Automatic mode							
Activation of automatic control	■	■	■	■	■	■	■
Position height/ slat position if sunny	■	■	■	■	■	■	■
Presence	■	■	■	■	–	■	■
Heating/Cooling	■	■	■	■	–	■	■
Overheat control	■	■	■	■	–	–	–
Enable/disable automatic control	■	■	■	■	■	■	■
Enable/disable direct operation	■	■	■	■	■	■	■
Status messages							
Height/slat [0…255]	■	■	■	■	■	■	■
Upper/lower end position	■	■	■	■	■	■	■
Operability	■	■	■	■	■	■	■
Automatic	■	■	■	■	■	■	■
Status byte (2-byte)	■	■	■	■	■	–	–
SMI	–	–	–	–	–	■	■
Positions/limit position	–	–	–	–	–	■	■
Auxiliary voltage	–	–	–	–	–	■	■
SMI Diagnostic byte	–	–	–	–	–	■	■
Various							
Automatic travel detection	■	■	–	–	–	–	–
Time-delayed switching of drives	■	■	■	■	–	■	■
Limit rate of telegrams	■	■	■	■	■	–	–
Transmission and switching delay	■	■	■	■	–	–	–
In operation function	■	■	■	■	■	–	–
Request status values	■	■	■	■	■	–	–
Extended setting options for drives and blinds/shutters	■	■	■	■	■	■	■
Total turning of slats after move down command	■	■	■	■	–	–	–
Position of slat after arriving on lower end position	■	■	■	■	■	■	■
Commissioning and diagnostic function							
Control and diagnosis via ABB i-bus® Tool	■	■	■	■	–	–	–
Binary Outputs							
Relay output 6 A (number of outputs)	x = 2, 4, 8	4	x = 2, 4, 8	x = 2, 4, 8	6	–	–
Forced operation	■	■	■	■	■	–	–
Time function							
Staircae lighting, flashing, On/Off delay	–	–	–	–	■	–	–
Logic	–	–	–	–	■	–	–
Scene	–	–	–	–	■	–	–

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■ = Function is supported

– = Function is not supported

JRA/S 8.230.5.1

Blind/Roller Shutter Actuator with Travel Detection and Manual Operation,
230 V AC, MDRC
For the control of independent 230 V AC drives via ABB i-bus® KNX. The devices are designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. The travel times of the drive are detected automatically via current detection. To protect the drives, the output contacts are electromechanically locked against each other. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	JRA/S 2.230.5.1	2CDG110124R0011		0.21	1
4-fold	4	JRA/S 4.230.5.1	2CDG110125R0011		0.25	1
8-fold	8	JRA/S 8.230.5.1	2CDG110126R0011		0.46	1

JRA/S 4.24.5.1

Blind/Roller Shutter Actuator with Travel Detection and Manual Operation,
4-fold, 24 V DC, MDRC
For the control of up to 4 independent 24 V DC drives via ABB i-bus® KNX. The device is designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. The travel times of the drive are detected automatically via current detection. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	JRA/S 4.24.5.1	2CDG110128R0011		0.21	1

JRA/S 2.230.2.1

Blind/Roller Shutter Actuator with Manual Operation,
230 V AC, MDRC
For the control of independent 230 V AC drives via ABB i-bus® KNX. The devices are designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. To protect the drives, the output contacts are electromechanically locked against each other. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	JRA/S 2.230.2.1	2CDG110120R0011		0.21	1
4-fold	4	JRA/S 4.230.2.1	2CDG110121R0011		0.25	1
8-fold	8	JRA/S 8.230.2.1	2CDG110122R0011		0.46	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX –Shading Control

JRA/S 2.230.1.1

Blind/Roller Shutter Actuator, 230 V AC, MDRC
For the control of independent 230 V AC drives via ABB i-bus® KNX. The devices are designed for positioning blinds, roller shutters, awnings and other shading products as well as for controlling doors, windows and ventilation flaps. Additional auxiliary voltage is not needed. To protect the drives, the output contacts are electromechanically locked against each other.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	JRA/S 2.230.1.1	2CDG110129R0011		0.21	1
4-fold	4	JRA/S 4.230.1.1	2CDG110130R0011		0.25	1
8-fold	8	JRA/S 8.230.1.1	2CDG110131R0011		0.46	1

JRA/S 6.230.3.1

Blind/Roller Shutter Actuator with Binary Inputs, 6-fold, 230 V, MDRC   NEW
For the control of 6 independent Blind/ Roller drives or air dampers. Via the 12 binary input a direct operation of the outputs is possible with conventional switch sensors. The binary inputs may also be used for other operations (e.g. switching, dimming). To protect the drives, the output contacts are electromechanically locked against each other.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	12	JRA/S 6.230.3.1	2CDG110208R0011		0.55	1

6152/11 U-500

Shutter Actuator, 1-fold, FM
For controlling blind or awning motors. With 3 inputs and 1 change-over output – normally open contact, potential-bound –. Rated voltage: 230 V~, +10% / – 10%, 50 Hz – 60 Hz. Input polling voltage: 5 V. Output rated current: 3 A, cos φ 0.8, Output voltage: 250 V~.
The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6152/11 U-500	2CKA006152A0040		0.11	1

6173/11 U-500

Combi Actuator, FM
For controlling blind or awning motors. For connecting thermoelectric actuating drives. With 3 inputs and 2 outputs. A first output (O1) allows the control of electrically-operated Venetian blinds, roller shutters, awnings, venting louvers or similar blinds for 230 V AC mains voltage. One additional electronic switching output (O2) allows silent control of electrothermal valve drives for heating or cooling systems. The bus can be connected via enclosed terminal block. Rated voltage: 230 V~, +10% / –10%, 50 Hz – 60 Hz. Input polling voltage 5V. O1 Rated current 3 A, cos φ 0.8; Output voltage: 250 V~. O2: Rated current: 25 mA, cos φ 1, Output voltage: 250 V~.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6173/11 U-500	2CKA006151A0249		0.11	1

JA/S 4.SMI.1M

SMI Shutter Actuator with Manual Operation, 4-fold, MDRC

It controls four independent groups (broadcast) with up to four SMI (Standard Motor Interface) drives (230 V) for positioning blinds, roller shutters, awnings and other shading products. Status signals (motor fault, direction of movement) can also be sent from the SMI drive on the bus. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	JA/S 4.SMI.1M	2CDG110028R0011		0.25	1

SJR/S 4.24.2.1

SMI Blind/Roller Shutter Actuator, 4-fold, LoVo, MDRC

It controls four independent groups (broadcast) with up to four SMI (Standard Motor Interface) LoVo drives for positioning blinds, roller shutters, awnings and other shading products. Status signals (motor fault, direction of movement) can also be sent from the SMI drive on the bus. Push buttons are located at the front of the device to control the outputs e.g. during commissioning. The current status of the output is displayed via LEDs.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SJR/S 4.24.2.1	2CDG110143R0011		0.25	1

JSB/S 1.1

Shutter Control Unit, MDRC

Controls shutter and blind actuators according to the position of the sun. The shutter control unit contains the functions of anti-glare protection and daylight redirection for up to 4 facades. Automatic shading can be implemented for every building and climatic control can be supported by the comprehensive range of parameter settings in the ETS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	JSB/S 1.1	GHQ6310084R0111		0.12	1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Lighting Control – DALI

The ABB DALI Gateways are used to interface between DALI (Digital Addressable Lighting Interface) and KNX installations. Two Gateways are available: DG/S 1.64.1.1 DALI-Gateway (1fold) and DG/S 2.64.1.1 DALI-Gateway (2fold). Both incorporate the DALI power supply.

Both Gateways are equipped with emergency lighting function, support the DALI standard EN 62386-202 that specifies DALI emergency lighting (self-contained).

DALI-Gateway DG/S 1.64.1.1
Flexibility by controlling light individually per device or in groups

DALI-Gateway DG/S 2.64.1.1
Maximum flexibility combined with highest amount of DALI participants and groups, to meet all customer needs

The DG/S 1.64.1.1 DALI-Gateway (1fold) can install up to 64 DALI devices both via 16 flexible DALI (orange lined group) and KNX lighting groups (green dotted lined group), each with one or more DALI participants. Control and Monitoring via KNX. Control and status feedback can also be carried out via Broadcast. 16 independent Lighting scenes are available.

The DG/S 2.64.1.1 DALI-Gateway (2fold) can install up to 2 x 64 DALI devices both via 2 x 16 flexible DALI (orange lined group) and KNX lighting groups (green dotted lined group), each with one or more DALI participants. Control and Monitoring via KNX. Control and status feedback can also be carried out via Broadcast. 2 x 16 independent Lighting scenes are available.
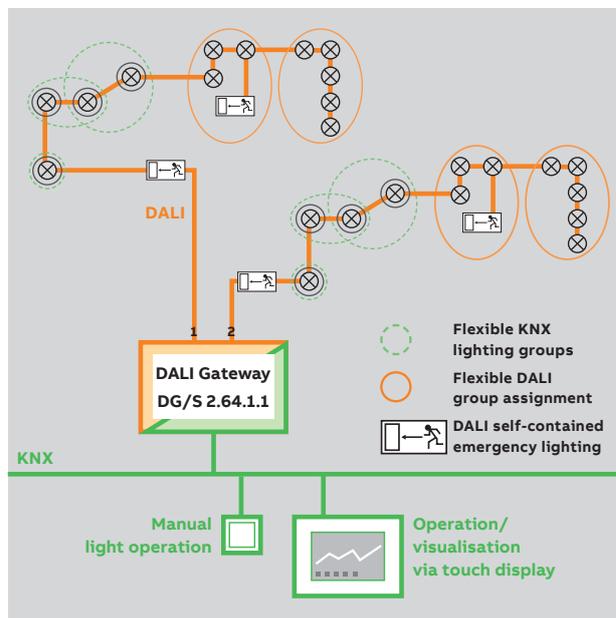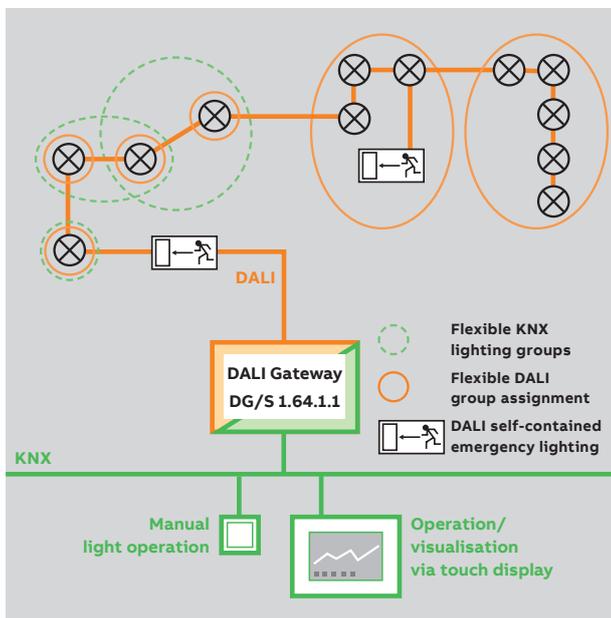
DALI Light Controller DLR/S 8.16.1M
**Energy through constant lighting control**

Control via 16 lighting groups. Up to 8 lighting groups can be controlled with 8 light sensors. Master-slave, staircase light and Scene mode round off the functions.

DALI Light Controller DLR/A 4.8.1.1
Decentralized Constant Lighting Control

The new DALI Light Controller DLR/A 4.8.1.1 is a surface mounting device for switching and dimming of 8 independent lighting groups. A maximum of 64 DALI devices can be connected. The device can be used for 4-fold constant lighting control in connection with 4 Light Sensors LF/U 2.1. Furthermore staircase lighting and master / slave functions are provided. Fault feedback messages, e.g. concerning ballast or lamp failures, can be programmed and activated via KNX. The compact surface-mounted housing allows the decentralized installation in the underfloor or in false ceilings – optimal for the use with Room Controller RC/A.

—
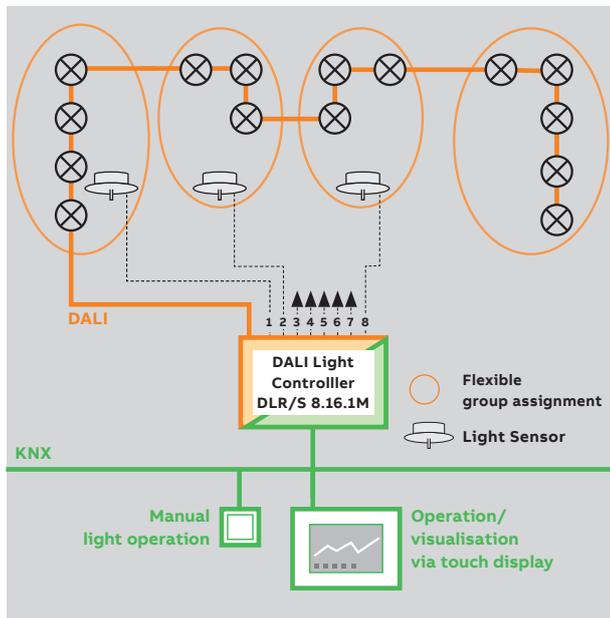
# Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Lighting Control – DALI

DALI Gateway DG/S 8.1
The proven technology

Lighting groups are formed via "rigid" hardware wiring.
Fast commissioning as no addressing is necessary.
No readdressing when a ballast is exchanged. 8 x 16 DALI
devices.

	Gateways			Light Control	
	DG/S 1.64.1.1	**DG/S 2.64.1.1**	**DG/S 8.1**	**DLR/S 8.16.1M**	**DLR/A 4.8.1.1**
General					
Supply voltage	100 – 240 V AC (85...265 V AC ; 110...240 V DC)	100 – 240 V AC (85...265 V AC ; 110...240 V DC)	100 – 240 V AC (85...265 V AC ; 110...240 V DC)	100 – 240 V AC (85...265 V AC ; 110...240 V DC)	100 – 240 V AC (85...265 V AC ; 110...240 V DC)
Type of installation	MDRC	MDRC	MDRC	MDRC	SM
Module width (18 mm)	4	4	6	6	220 x 147 x 50 mm
Number of outputs	1	2	8	1	1
Light sensor inputs	–	–	–	8	4
Degree of protection	IP20	IP20	IP20	IP20	IP54
Integrated power supply	■	■	■	■	■
Number of DALI participants	64	2 x 64	8 x 16	64	64
Broadcast control	■	■	■	■	■
Number of group control	16	2 x 16	–	16	8
Individual control	64	2 x 64	–	–	–
Self-contained emergency lighting, IEC 62 386-202	■	■	–	–	–
Manual operation	■	■	■	■	■
Functions					
Enable/disable DALI address assignment	■	■	–	■	■
Switching, dimming, set brightness	■	■	■	■	■
Slave	■	■	■	■	■
Staircase lighting	■	■	■	■	■
Burn-in	■	■	■	■	■
Scenes	■	■	■	■	■
Forced	■	■	–	■	■
Sequence	–	–	–	–	–
Emergency lighting test	■	■	–	–	–
Partial failure	■	■	–	–	–
Constant light control	–	–	–	■	■
Reaction on KNX bus voltage failure	■	■	■	■	■
Reaction on KNX voltage recovery	■	■	■	■	■
Reaction on DALI bus voltage failure	■	■	■	■	■
Reaction on DALI voltage recovery	■	■	■	■	■
Power on level	■	■	–	■	■
Device or lamp fault	■	■	■	■	■
Cyclic monitoring telegram	■	■	■	■	■
DALI telegram rate modifiable	■	■	–	–	–
Commissioning and diagnostic functions (ABB i-bus® Tool)					
Device assignment	■	■	–	■	■
Group assignment	■	■	–	■	■
Fault DALI device	■	■	–	■	■
Fault lamp	■	■	–	■	■
Function test (ON/OFF/brightness value)	■	■	–	■	■
Commissioning constant light control	–	–	–	■	■
Test emergency lighting	■	■	–	–	–

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■ = Function is supported

– = Function is not supported

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Lighting Control – DALI

DG/S 1.64.1.1

DALI-Gateway, Basic, 1-fold, MDRC
The device is used to interface between DALI and KNX installations and incorporates the DALI power supply. One DALI output for up to 64 DALI Slaves. Control and status feedback is carried out via KNX per DALI slave (64), with lighting groups (16), together in broadcast or per scenes (16). Extensive fault and error messages are available. Self-contained emergency converter (64) acc. EN 62386-202 will be supported. By means of KNX and emergency converter, different emergency tests (e.g. function and duration test) can be triggered. Feedback is sent. Slave-, staircase-, force-, block- and scene- function are integrated. DALI telegram rate can change. For diagnostic use and individual change of the DALI address or group assignment a separate ABB i-bus® Tool is available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	DG/S 1.64.1.1	2CDG110198R0011		0.133	1

DG/S 2.64.1.1

DALI-Gateway, Basic, 2-fold, MDRC
The device is used to interface between DALI and KNX installations and incorporates the DALI power supply. Two DALI output for up to 2 x 64 DALI Slaves. Control and status feedback is carried out via KNX per DALI slave (2 x 64), with lighting groups (2 x 16), together in two broadcasts or per scenes (2 x 16). Extensive fault and error messages are available. Self-contained emergency converter (2 x 64) acc. EN 62386-202 will be supported. By means of KNX and emergency converter, different emergency tests (e.g. function and duration test) can be triggered. Feedback is sent. Slave-, staircase-, force-, block- and scene- function are integrated. DALI telegram rate can change. For diagnostic use and individual change of the DALI address or group assignment a separate ABB i-bus® Tool is available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	DG/S 2.64.1.1	2CDG110199R0011		0.15	1

DG/S 8.1

DALI Gateway, 8-fold, MDRC
For controlling up to 128 DALI devices. There are 8 separate, independent DALI outputs/channels available. Up to 16 DALI devices can be connected per channel. The DALI power supply is integrated in the gateway. The functions of switching, dimming, set values and fault indication for lamps and electronic ballasts are available for each output. It is possible to set the lamp burn-in time and 16 light scenes. Commissioning is simplified as no addressing or commissioning of the DALI devices is necessary.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	DG/S 8.1	2CDG110025R0011		0.31	1

DLR/S 8.16.1M

DALI Light Controller, 8-fold, MDRC

For switching and dimming of 16 independent lighting groups. A maximum of 64 DALI devices can be connected. The device can be used for 8-fold constant lighting control in connection with eight Light Sensors LF/U 2.1. Fault feedback messages can be programmed and activated via KNX. With comfortable manual operation and status display.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	DLR/S 8.16.1M	2CDG110101R0011		0.26	1

DLR/A 4.8.1.1

DALI Light Controller, 4-fold, SM

Surface mounting device for switching and dimming of 16 independent groups of luminaries. Up to 64 DALI participants can be connected to one DALI control line. When combined with the light sensor LF/U 2.1 the device can be used as a 8-fold light controller for constant light control. Additionally a staircase and master/slave function is integrated.
A great number of status feedback e.g. lamp and ballast fault can be transferred from DALI to KNX. With this functions the DALI light controller is a key factor in every energy efficient building automation. With his surface mounting housing it is possible to insert the device central in false ceiling or underfloor installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	DLR/A 4.8.1.1	2CDG110172R0011		0.66	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Lighting Control

	Universal Dim Actuators			LED Dimmer with constant curve	
	UD/S x.210.2.1	**UD/S 2.300.2**	**6197/x-101-500 (x=12-15, 52, 53)**	**6155/30-500 1–4-fold**	**6155/40-500 1–4-fold with power supply**
General					
Supply voltage	110 – 230 V AC ± 10 %, 50/60 Hz	230 V -15/+10 %, 50/60 Hz	230 V AC ± 10 %, 50/60 Hz	12...24 V DC	230 V AC ± 10%, 50/60 Hz
Type of installation	MDRC	MDRC	MDRC	Wall (surface)	Wall (surface)
Module width (18 mm)	6/8	4	8/12	–	–
Number of outputs	4/6	2	1, 4, 6	4	4
Maximum load per channel	4 x 210 W (1 x 600 W)/ 6 x 210 W (1 x 800 W)	2 x 300 W, or 1x 500 W/VA	210, 315, 600, 1260, 2400 VA	1 x 10 A/ 4 x 2.5 A	1 x 4 A/ 4 x 1 A
Incoming supply	4/6 phase inputs	2 phase inputs	3 phase inputs	1 phase input	1 phase input
Load types					
230 V incandescent lamps	■	■	■	–	–
230 V halogen lamps	■	■	■	–	–
Low-voltage halogen lamps with conventional transformers or electronic transformers	■	■	■	–	–
LED strips or 12/24 V lamps	–	–	–	■	■
LED Retrofit 230 V	■	–	■ [1]	–	–
Grouping of channels for load increase	■	■ [2]	■	■	■
Switching					
Brightness value when turned on	■	■	■	■	■
Dimming speed for switching on and off	■	■	■	■	■
Dimming					
Min. and max. dimming values	■	■	■	■	■
Switching on/off via rel. dimming	■	■	■	■	■

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■ = Function is supported

– = Function is not supported

1) = Selected LED retrofit lamps are tested and approved. Restrictions have to be observed
   Details see Busch-Dimmer® Tool (www.busch-jaeger.com)

2) = One channel uses 500 W

	Universal Dim Actuators			LED Dimmer with constant curve	
	UD/S x.210.2.1	UD/S 2.300.2	6197/x-101-500 (x=12-15, 52, 53)	6155/30-500 1–4-fold	6155/40-500 1–4-fold with power supply
Further functions					
Forced operation	■	■	–	–	–
Dimming curve adjustment	■	■	■	–	–
Reaction on bus voltage failure	■	■	■	–	–
Behavior on bus voltage recovery	■	■	■	■	■
Status feedback	■	■	■	■	■
Blocking channel	■	■	■	■	■
Scenes	■	■	■	■	■
Phase angle control: automatic, leading or trailing edge	■	■	■	–	–
Additional logic functions	■	–	■	–	–
Staircase lighting	■	■	■	–	–

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■ = Function is supported

– = Function is not supported

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Lighting Control

	Switch/Dim Actuators			Constant Light Control	
	SD/S 2.16.1	SD/S 4.16.1	SD/S 8.16.1	LR/S 2.16.1	LR/S 4.16.1
General					
Supply voltage	KNX	KNX	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	4	6	8	4	6
Number of outputs 1-10 V (passive)	2	4	8	2	4
Manual operation	■	■	■	■	■
Maximum current per control output	100 mA	100 mA	100 mA	100 mA	100 mA
Maximum cable length at maximum load (100 mA)	70 m (cable cross-section 0.8 mm²) 100 m (cable cross-section 1.5 mm²)	70 m (cable cross-section 0.8 mm²) 100 m (cable cross-section 1.5 mm²)	70 m (cable cross-section 0.8 mm²) 100 m (cable cross-section 1.5 mm²)	70 m (cable cross-section 0.8 mm²) 100 m (cable cross-section 1.5 mm²)	70 m (cable cross-section 0.8 mm²) 100 m (cable cross-section 1.5 mm²)
Light sensor (LF/U 2.1)	–	–	–	2	4
Maximum cable length per sensor (P-YCYM or J-Y(ST)Y cable (SELV), diameter 0.8 mm	–	–	–	100 m	100 m
Power loss per device at max. load	2.6 W	5.2 W	10.4 W	2.6 W	5.2 W
Switching capacity					
Rated current I_n	16 A AC1	16 A AC1	16 A AC1	16 A AC1	16 A AC1
Rated voltage U_n	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC	250/440 V AC
AC1 operation (cos φ = 0.8) DIN EN 60 947-4-1	16 A	16 A	16 A	16 A	16 A
AC3 operation (cos φ = 0.45) DIN EN 60 947-4-1	8 A/ 230 V	8 A/ 230 V	8 A/ 230 V	8 A/ 230 V	8 A/ 230 V
Fluorescent lighting load AX DIN EN 60 669-1	10 A (140 μF) [1]	10 A (140 μF) [1]	10 A (140 μF) [1]	10 A (140 μF) [1]	10 A (140 μF) [1]
Minimum switching capacity	100 mA/12 V	100 mA/12 V	100 mA/12 V	100 mA/12 V	100 mA/12 V
DC current switching capacity (resistive load)	10 A/24 V DC	10 A/24 V DC	10 A/24 V DC	10 A/24 V DC	10 A/24 V DC
Mechanical service life	> 3 x 10⁶	> 3 x 10⁶	> 3 x 10⁶	> 3 x 10⁶	> 3 x 10⁶
Electronic endurance to DIN IEC 60 947-4-1					
Rated current AC1 (240 V/cos φ = 0.8)	100,000	100,000	100,000	100,000	100,000
Rated current AC3 (240 V/cos φ = 0.45)	30,000	30,000	30,000	30,000	30,000
Rated current AC5a (240 V/cos φ = 0.45)	30,000	30,000	30,000	30,000	30,000
Incandescent lamp load at 230 V AC	2,300 W	2,300 W	2,300 W	2,300 W	2,300 W
Fluorescent lamps T5/T8					
Uncorrected	2,300 W	2,300 W	2,300 W	2,300 W	2,300 W
Parallel compensated	1,500 W	1,500 W	1,500 W	1,500 W	1,500 W
DUO circuit	1,500 W	1,500 W	1,500 W	1,500 W	1,500 W
Low-voltage halogen lamps					
Inductive transformer	1,200 W	1,200 W	1,200 W	1,200 W	1,200 W
Electronic transformer	1,500 W	1,500 W	1,500 W	1,500 W	1,500 W
Halogen lamp 230 V	2,500 W	2,500 W	2,500 W	2,500 W	2,500 W
Dulux lamps					
Uncorrected	1,100 W	1,100 W	1,100 W	1,100 W	1,100 W
Parallel compensated	1,100 W	1,100 W	1,100 W	1,100 W	1,100 W
Mercury-vapour lamps					
Inductive transformer	2,000 W	2,000 W	2,000 W	2,000 W	2,000 W
Electronic transformer	2,000 W	2,000 W	2,000 W	2,000 W	2,000 W

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1) = The maximum peak inrush current may not be exceeded

	Switch/Dim Actuators			Constant Light Control	
	SD/S 2.16.1	SD/S 4.16.1	SD/S 8.16.1	LR/S 2.16.1	LR/S 4.16.1
Sodium-vapour lamps					
Inductive transformer	2,000 W	2,000 W	2,000 W	2,000 W	2,000 W
Electronic transformer	2,000 W	2,000 W	2,000 W	2,000 W	2,000 W
Max. peak inrush-current I_p (150 µs)	400 A	400 A	400 A	400 A	400 A
Max. peak inrush-current I_p (250 µs)	320 A	320 A	320 A	320 A	320 A
Max. peak inrush-current I_p (600 µs)	200 A	200 A	200 A	200 A	200 A
Number of ballasts (T5/T8, single element) e.g.[1]					
18 W (ABB EVG 1 x 18 SF)	23	23	23	23	23
24 W (ABB EVG 1 x 24 CY)	23	23	23	23	23
36 W (ABB EVG 1 x 36 CF)	14	14	14	14	14
58 W (ABB EVG 1 x 58 CF)	11	11	11	11	11
80 W (Helvar EL 1 x 80 SC)	10	10	10	10	10

	Switch/Dim Actuators			Constant Light Control	
	SD/S 2.16.1	SD/S 4.16.1	SD/S 8.16.1	LR/S 2.16.1	LR/S 4.16.1
Functions					
Brightness control	–	–	–	■	■
Brightness value	■	■	■	■	■
Dimming speed for transition brightness values	■	■	■	■	■
Min. and max. value limits	■	■	■	■	■
Set switching on and off via value	■	■	■	■	■
Presets	■	■	■	■	■
Scenes	■	■	■	■	■
Switch					
Brightness value when turned on	■	■	■	■	■
Dimming speed for switching on and off	■	■	■	■	■
Dimming					
Dimming speed can be changed via KNX	■	■	■	■	■
Min. and max. dimming values	■	■	■	■	■
Switching on/off via rel. dimming	■	■	■	■	■
Forced operation					
2-bit coded forced operation	■	■	■	■	■
Behaviour after voltage recovery	■	■	■	■	■
Block Activate output via 1-bit object	■	■	■	■	■
Special					
4-point characteristic adjustment	■	■	■	■	■
Preference with bus voltage failure	■	■	■	■	■
Status feedback	■	■	■	■	■
Additional					
Slave mode e.g. for integration in the constant lighting control	■	■	■	■	■
Staircase lighting	■	■	■	■	■
Prewarning via dimming and/or KNX object	■	■	■	■	■
Commissioning and diagnostic functions					
Control and diagnosis via ABB i-bus® Tool	–	–	–	■	■

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■ = Function is supported

– = Function is not supported

1) = For multiple element lamps or other types, the number of electronic ballasts must be determined using the peak inrush current of the electronic ballasts

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Lighting Control

LR/S 4.16.1

Light Controller, 16 A, MDRC

The device enables the switching and dimming of 2 or 4 independent lighting circuits in conjunction with electronic ballasts. In combination with the Light Sensor LF/U 2.1, the device can be used for constant lighting control. 2 or 4 light sensors can be connected to the controller for precise detection of the lighting conditions.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	LR/S 2.16.1	2CDG110087R0011		0.25	1
4-fold	6	LR/S 4.16.1	2CDG110088R0011		0.40	1

LF/U 2.1

Light Sensor, FM

Used for implementing constant lighting control applications in conjunction with light controllers LR/S, LR/M, DLR/S 8.16.1M or DLR/A 4.8.1.1. The scope of delivery includes different optical rods, the connection terminals and the cover for discrete fitting in a room.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	LF/U 2.1	2CDG110089R0011		0.07	1

SD/S 8.16.1

Switch/Dim Actuator, 16 A, MDRC

Used for switching and dimming of 2, 4 or 8 independent groups of luminaries with electronic ballasts with 1 – 10 V control interfaces. On each channel the power supply of the ballasts is switched by a floating load relay (16 A – AC1). Every output can be operated manually and features display of the switching state. The device can assume a range of applications thanks to the programming options. The switching load is identical to the SA/S x.16.2.1 range (see Standard Outputs – Overview).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
2-fold	4	SD/S 2.16.1	2CDG110079R0011		0.21	1
4-fold	6	SD/S 4.16.1	2CDG110080R0011		0.32	1
8-fold	8	SD/S 8.16.1	2CDG110081R0011		0.56	1

UD/S 4.210.2.1

LED Dimmer, 4-fold, 210 W/VA, MDRC   **NEW**

Multichannel universal dimming actuator optimized for dimming of retrofit LED lamps (LEDi). Also suitable for dimming of incandescent lamps, low-voltage halogen lamps with conventional or electronic transformers, 230 V incandescent halogen lamps and dimmable halogen energy-saving lamps. Automatic load detection (deactivatable). One separate N-terminal per channel. Channel bridging possible in order to increase the maximum load. Outputs can be switched in parallel as required. Minimum load: 2 W. Manual operation on the device is possible also without bus voltage or in unprogrammed state. One LED control button per channel (including status indication) for ON and OFF switching as well as for up and down dimming. Programming of the device is possible without connecting 230 V supply voltage. Comprehensive test and diagnostic functions via the i-bus® Tool. Fast parameterization in the ETS by means of copyable channel templates. With integrated bus coupler.
Rated power at 230 V ~:

• 230 V ~ incandescent and halogen lamps: 4 x 210 W/VA to 1 x 600 W/VA.
• Dimmable 230 V ~ LEDi: 4 x 210 W/VA to 1 x 600 W/VA in trailing edge mode,
  4 x 80 W/VA to 1 x 200 W/VA in leading edge mode.
• Inductive L-transformers with LED/low-voltage halogen lamps: 4 x 210 W/VA to 1 x 600 W/VA.
• Electronic C-transformers with LED/low voltage halogen lamps: 4 x 210 W/VA to 1 x 600 W/VA.
• Electronic LC transformers with LED/low-voltage halogen lamps: 4 x 80 W/VA to 1 x 200 W/VA.
Recommendation: Always use bulbs of one type and manufacturer.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	6	UD/S 4.210.2.1	2CKA006197A0047			1

UD/S 6.210.2.1

LED Dimmer, 6-fold, 210 W/VA, MDRC   **NEW**

Multichannel universal dimming actuator optimized for dimming of retrofit LED lamps (LEDi). Also suitable for dimming of incandescent lamps, low-voltage halogen lamps with conventional or electronic transformers, 230 V incandescent halogen lamps and dimmable halogen energy-saving lamps. Automatic load detection (deactivatable). One separate N-terminal per channel. Channel bridging possible in order to increase the maximum load. Outputs can be switched in parallel as required. Minimum load: 2 W. Manual operation on the device is possible also without bus voltage or in unprogrammed state. One LED control button per channel (including status indication) for ON and OFF switching as well as for up and down dimming. Programming of the device is possible without connecting 230 V supply voltage. Comprehensive test and diagnostic functions via the i-bus® Tool. Fast parameterization in the ETS by means of copyable channel templates. With integrated bus coupler.
Rated power at 230 V ~:

• 230 V ~ incandescent and halogen lamps: 6 x 210 W/VA to 1 x 800 W/VA.
• Dimmable 230 V ~ LEDi: 6 x 210 W/VA to 1 x 800 W/VA in trailing edge mode,
  6 x 80 W/VA to 1 x 240 W/VA in leading edge mode.
• Inductive L-transformers with LED/low-voltage halogen lamps: 6 x 210 W/VA to 1 x 800 W/VA.
• Electronic C-transformers with LED/low voltage halogen lamps: 6 x 210 W/VA to 1 x 800 W/VA.
• Electronic LC transformers with LED/low-voltage halogen lamps: 6 x 80 W/VA to 1 x 240 W/VA.
Recommendation: Always use bulbs of one type and manufacturer.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
6-fold	8	UD/S 6.210.2.1	2CKA006197A0049			1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Lighting Control

UD/S 2.300.2

Universal Dim Actuator, 2-fold, 300 VA, MDRC

For switching and dimming of incandescent lamps, 230 V halogen lamps or low-voltage halogen lamps which are powered by wound or electronic transformers (automatic load detection). Output power 2 x 300 VA or 1 x 500 VA up to 45 °C ambient temperature at a minimum load of just 2 W. Both outputs are independent of one another and can be supplied by different phases. Comprehensive application program with scene and time functions.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	UD/S 2.300.2	2CDG110074R0011		0.24	1

6197/13-101-500

Universal Dim Actuator, MDRC

Multi-channel universal dimming actuator for control of incandescent lamps, 230 V halogen lamps, lowvoltage halogen lamps with conventional or electronic transformers and dimmable energy-efficient lamps. Optimized for dimming of Philips retrofit LEDs (LEDi).
Parallel connection of channels to increase load capacity via wire jumpers possible.
Status/state indication of the outputs via LED. Local operation even without bus voltage or in non-programmed state possible.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, 210 VA*	8	6197/12-101-500	2CKA006197A0036		0.42	1
4-fold, 315 VA	8	6197/13-101-500	2CKA006197A0037		0.42	1
6-fold, 315 VA	12	6197/14-101-500	2CKA006197A0038		0.91	1
4-fold, 600 VA	12	6197/15-101-500	2CKA006197A0039		0.91	1
1-fold, 1.260 VA*	12	6197/52-101-500	2CKA006197A0040		0.463	1
1-fold, 2.400 VA	12	6197/53-101-500	2CKA006197A0041		0.833	1

* to be discontinued

6155/30-500

Build-In-Dimmer with constant curve for LED-strips RGBW, 4fold

Build-in LED-Dimmer for LED strips with constant curve. To control RGB or RGBW-LEDs. Grouping of channels possible. With Master/Slave-function and internal load management. Connections: KNX-line: Bus connection terminal. Rated voltage: 12 - 24 V. Output voltage: 12 V. Secondary: 24 V. Rated frequency: 600 Hz. Outputs: 4x dimming channel. Suitable for: DC. Rated current: 10 A. Rated power: 240 W. Protection class (Device): IP 20.
Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 33 mm x 53 mm x 95 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6155/30-500	2CKA006151A0254		0.185	1

6155/40-500

Build-In-Dimmer with constant curve for LED-strips RGBW, 4fold, with integrated power supply
Build-in LED-Dimmer for LED strips with constant curve. To control RGB or RGBW-LEDs. With integrated power adapter. Grouping of channels possible. With Master/Slave-function and internal load management. Connections: KNX-line: Bus connection terminal. Rated voltage: 230 V~. Output voltage: 24 V~. Rated frequency: 600 Hz. Outputs: 4x dimming channel. Suitable for: DC. Rated current: 4 A. Rated power: 100 W. Protection class (Device): IP 20. Temperature range (Device):– 5 °C to 45 °C.
Dimensions: (L x W x D): 45 mm x 53 mm x 226 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6155/40-500	2CKA006151A0256		0.4	1

HS/S 4.2.1

Outside Light Sensor Interface, MDRC
The device is used for the connection and evaluation of up to 3 Outside Light Sensors LFO/A 1.1. The Outside Light Sensors can be analysed individually or combined. Amongst others 10 logical switching channels for the evaluation of threshold values are provided. Threshold values can be adjusted directly on the device. The device can be used as a twilight switch (1 … 100 lux) or as a light value switch (100 … 20.000 lux). One Outside Light Sensor LFO/A 1.1 is supplied with the device.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	3	HS/S 4.2.1	2CDG120044R0011		0.24	1

LFO/A 1.1

Outside Light Sensor
Outside Light Sensor for the connection with the Interface HS/S 4.2.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	LFO/A 1.1	2CDG120045R0011		0.05	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Movement and Presence Detection

	Mini Basic 6131/20-xxx-500	Mini Premium 6131/21-xxx-500	Basic 6131/30-xxx-500	Premium 6131/31-xxx-500	Sky 6131/40-xxx-500	Corridor Basic 6131/50-xxx-500	Corridor Premium 6131/51-xxx-500
General							
Supply voltage	KNX	KNX	KNX	KNX	KNX	KNX	KNX
Type of installation	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted	flush-mounted/ surface-mounted
Programming button accessible from outside	■	■	■	■	–	■	■
Detection range diameter (sitting / walking person)						Corridor: only walking person	Corridor: only walking person
Installation height 2.5 m	Max. 5.0 m/ 6.5 m	Max. 5.0 m/ 6.5 m	Max. 8.0 m/ 10.0 m	Max. 8.0 m/ 10.0 m	–	Frontal: max. 18 x 2,5 m; Lateral: max. 24 x 2,5 m	Frontal: max. 18 x 2,5 m; Lateral: max. 24 x 2,5 m
Installation height 3.0 m	Max. 6.5 m/ 8.0 m	Max. 6.5 m/ 8.0 m	Max. 10.0 m/ 12.0 m	Max. 10.0 m/ 12.0 m	–	Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m	Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m
Installation height 4.0 m	Max. 9.0 m/ 10.5 m	Max. 9.0 m/ 10.5 m	Max. 14.0 m/ 16.0 m	Max. 14.0 m/ 16.0 m	–	Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m	Frontal: max. 20 x 3 m; Lateral: max. 30 x 3 m
Installation height 6.0 m	–	–	–	–	Max. 18.0 m	–	–
Installation height 12.0 m	–	–	–	–	Max. 24.0 m	–	–
Number of channels							
Movement detector	2	4 in total	2	4 in total	2	2	4 in total
Constant light switch	2	4 in total	2	4 in total	2	2	4 in total
Combination	1 x each	4 in total	1 x each	4 in total	1 x each	1 x each	4 in total
Constant light controller	–	2	–	2	–	–	2
Heating/cooling/ventilation systems (HVAC)	–	1	–	1	–	–	1
Infrared receiver, can be operated via IR remote control 6010-25	–	10 button pairs + 4 single buttons/ 24 single buttons		10 button pairs + 4 single buttons/ 24 single buttons	(only red for activation of the programming mode)	–	10 button pairs + 4 single buttons/ 24 single buttons
Two power-off stages							
Movement detector	■	■	■	■	■	■	■
Constant light control	–	■	–	■	–	–	■

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■ = Function is supported

– = Function is not supported

	Mini Basic	Mini Premium	Basic	Premium	Sky	Corridor Basic	Corridor Premium
	6131/20-xxx-500	6131/21-xxx-500	6131/30-xxx-500	6131/31-xxx-500	6131/40-xxx-500	6131/50-xxx-500	6131/51-xxx-500
Application							
Surveillance detector	■	■	■	■	■	■	■
Movement detector	■	■	■	■	■	■	■
Presence detector	■	■	■	■	–	■	■
Constant light switch	■	■	■	■	■	■	■
Controller independent of movement	–	■	–	■	–	–	■
Various							
Integrated object room temperature controller with temperature sensor	–	1	–	1	–	–	1
Brightness measurement	■	■	■	■	■	■	■
Calibration of brightness sensor via ETS group objects	■	■	■	■	■	■	■
Programming mode can be activated via IR remote control 6010-25	–	■	–	■	■	–	■
Programming LED can be activated via ETS group objects	■	■	■	■	■	■	■
Number of logic functions (4 different ones)	–	5	–	5	–	–	5

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– = Function is not supported

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Movement and Presence Detection

6131/20-24-500

Busch-Presence detector mini KNX
8 meter
Detection range (for mounting height 2.5 m, 3 m and 4 m): circular.
Seated persons Ø: 5 m, 6,5 m and 9 m.
Walking persons Ø: 6,5 m, 8 m and 10,5 m.
Visible height 16 mm. With 2 channels.
Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Using the device as presence and/or movement detectors. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightnessdependent switching of two light bands in the area. With integrated KNX bus coupler. Connections: KNX-line: Bus connection terminal. Brightness limit value: 1 Lux – 1000 Lux. Mounting height: 2 m – 4 m. Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C. Dimensions: (L x W x D): 80 mm x 80 mm x 45 mm. Mounting depth: 29 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/20-24-500	2CKA006132A0342		0.13	1
aluminium silver	–	6131/20-183-500	2CKA006132A0343		0.13	1

6131/21-24-500

Busch-Presence detector mini premium KNX
8 meter
Detection range (for mounting height 2.5 m, 3 m and 4 m): circular.
Seated persons Ø: 5 m, 6,5 m and 9 m.
Walking persons Ø: 6,5 m, 8 m and 10,5 m.
Visible height 16 mm. With 4 channels. For dimming/brightness of the rules to a defined value in a designated collection area. HVAC function for controlling heating and/or cooling systems and ventilation systems in the designated collection area. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light controller with up to two independent channels. Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room. Integrated object room temperature controller. 10 freely programmable IR channels (white). Incl. 5 logic channels (logic gates, gates, delay and staircase lighting). Weighting of up to 2 external brightness values and the internal brightness sensor possible. With integrated KNX bus coupler. Connections: KNX-line: Bus connection terminal.
Brightness limit value: 1 Lux – 1000 Lux. Mounting height: 2 m – 4 m.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 80 mm x 80 mm x 45 mm.
Mounting depth: 29 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/21-24-500	2CKA006132A0344		0.13	1
aluminium silver	–	6131/21-183-500	2CKA006132A0345		0.13	1

6131/30-24-500

Busch-Presence detector KNX
12 meter
Detection range (for mounting height 2.5 m, 3 m and 4 m): circular.
Seated persons Ø: 8 m, 10 m and 14 m.
Walking persons Ø: 10 m, 12 m and 16 m.
Visible height 23 mm. With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Using the device as presence and/or movement detectors. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightnessdependent switching of two light bands in the area. With integrated KNX bus coupler. Connections: KNX-line: Bus connection terminal.
Brightness limit value: 1 Lux – 1000 Lux. Mounting height: 2 m – 4 m.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm. Mounting depth: 22 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/30-24-500	2CKA006132A0346		0.15	1
aluminium silver	–	6131/30-183-500	2CKA006132A0347		0.15	1

6131/31-24-500

Busch-Presence detector premium KNX
12 meter
Detection range (for mounting height 2.5 m, 3 m and 4 m): circular.
Seated persons Ø: 8 m, 10 m and 14 m.
Walking persons Ø: 10 m, 12 m and 16 m.
Visible height 23 mm.With 4 channels. For dimming/brightness of the rules to a defined value in a designated collection area. HVAC function for controlling heating and/or cooling systems and ventilation systems in the designated collection area. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light controller with up to two independent channels. Constant light controller with max. 2 outputs for dimming daylight control/rules of two rooflights in the room. Integrated object room temperature controller. 10 freely programmable IR channels (white). Incl. 5 logic channels (logic gates, gates, delay and staircase lighting). Weighting of up to 2 external brightness values and the internal brightness sensor possible. With integrated KNX bus coupler. Connections: KNX-line: Bus connection terminal.
Brightness limit value: 1 Lux – 1000 Lux. Mounting height: 2 m – 4 m.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm. Mounting depth: 22 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/31-24-500	2CKA006132A0348		0.15	1
aluminium silver	–	6131/31-183-500	2CKA006132A0349		0.15	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Movement and Presence Detection

6131/40-24-500

Busch-Watchdog Sky KNX
24 meter
Detection range (for mounting height 6 m and 12 m): circular.
Walking persons Ø: 18 m, 24 m.
Visible height 23 mm. With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Use of the device as a movement detector. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightnessdependent switching of two light bands in the area. With integrated KNX bus coupler. The programming button can be activated with the IR transmitter 6010-25 (-500).
Connections: KNX-line: Bus connection terminal. Brightness limit value: 1 Lux – 1000 Lux. Mounting height: 4 m – 12 m. Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C. Dimensions: (L x W x D): 91 mm x 91 mm x 45 mm. Mounting depth: 22 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/40-24-500	2CKA006132A0350		0.15	1

6131/50-24-500

Busch-Presence detector Corridor KNX
30 meter
Detection range: rectangular.
For mounting height 2.5 m: frontal approach max. 18 m x 2.5 m (per side max. 9 m x 2.5 m). Lateral movement max. 24 m x 2.5 m (per side max. 12 m x 2.5 m). For mounting height 3 m as well as 4 m: frontal approach max. 20 m x 3 m (per side max. 10 m x 3 m). Lateral movement max. 30 m x 3 m (per side max. 15 m x 3 m). Visible height 27 mm. With 2 channels. Targeted for connection and disconnection of lights bands depending on the room brightness. Regulation in response to the movement possible. Using the device as presence and/or movement detectors. Detectors application with 2 power off stages. Detectors application with integrated monitoring function. Constant light switch with up to two independent channels. Constant light switch with max. 2 outputs for brightnessdependent switching of two light bands in the area. With integrated KNX bus coupler.
Connections: KNX-line: Bus connection terminal. Brightness limit value: 1 Lux – 1000 Lux. Mounting height: 2 m – 4 m.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 91 mm x 91 mm x 49 mm. Mounting depth: 22 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/50-24-500	2CKA006132A0399		0.16	1
aluminium silver	–	6131/50-183-500	2CKA006132A0400		0.16	1

6131/51-24-500

Busch-Presence detector Corridor premium KNX
30 meter
Detection range: rectangular.
For mounting height 2.5 m: frontal approach max. 18 m x 2.5 m (per side max. 9 m x 2.5 m).
Lateral movement max. 24 m x 2.5 m (per side max. 12 m x 2.5 m).
For mounting height 3 m as well as 4 m: frontal approach max. 20 m x 3 m (per side max.
10 m x 3 m). Lateral movement max. 30 m x 3 m (per side max. 15 m x 3 m).
Visible height 27 mm. With 4 channels. For dimming/brightness of the rules to a defined
value in a designated collection area. HVAC function for controlling heating and/or cooling
systems and ventilation systems in the designated collection area. Detectors application
with 2 power off stages. Detectors application with integrated monitoring function.
Constant light controller with up to two independent channels. Constant light controller
with max. 2 outputs for dimming daylight control/rules of two rooflights in the room.
Integrated object room temperature controller. 10 freely programmable IR channels (white).
Incl. 5 logic channels (logic gates, gates, delay and staircase lighting). Weighting of up to
2 external brightness values and the internal brightness sensor possible. With integrated
KNX bus coupler. Connections: KNX-line: Bus connection terminal.
Brightness limit value: 1 Lux – 1000 Lux. Mounting height: 2 m – 4 m.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 91 mm x 91 mm x 49 mm. Mounting depth: 22 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/51-24-500	2CKA006132A0413		0.16	1
aluminium silver	–	6131/51-183-500	2CKA006132A0414		0.16	1

6131/29-24-500

Surface-mounting box for Busch-Presence detector mini
For installing a Busch-Presence detector mini KNX 6131/20-xxx(-500) or a Busch-Presence
detector mini premium KNX 6131/21-xxx(-500).
Protection class (Device): IP 20. Dimensions: (L x W x D): 80 mm x 80 mm x 35 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/29-24-500	2CKA006132A0351		0.08	1
aluminium silver	–	6131/29-183-500	2CKA006132A0352		0.08	1

6131/39-24-500

Surface-mounting box for Busch-Presence detector Basic, Premium, Sky and Corridor
For mounting a Busch-Presence detector KNX 6131/30-xxx(-500), a Busch-Presence detector
premium KNX 6131/31-xxx(-500), a Busch-Presence detector Corridor KNX 6131/50-xxx(-500),
a Busch-Presence detector Corridor premium KNX 6131/51-xxx(-500) or a Busch-Watchdog
Sky KNX 6131/40-24(-500).
Protection class (Device): IP 20. Dimensions: (L x W x D): 91 mm x 91 mm x 33 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/39-24-500	2CKA006132A0353		0.10	1
aluminium silver	–	6131/39-183-500	2CKA006132A0354		0.10	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Movement and Presence Detection

6131/38-24

Intermediate ring for Busch-Presence detector Basic, Premium, Sky and Corridor
For mounting a Busch-Presence detector KNX 6131/30-xxx(-500), a Busch-Presence detector premium KNX 6131/31-xxx(-500), a Busch-Presence detector Corridor KNX 6131/50-xxx(-500), a Busch-Presence detector Corridor premium KNX 6131/51-xxx(-500) or a Busch-Watchdog Sky KNX 6131/40-24(-500).
Protection class (Device): IP 20. Dimensions: (L x W x D): 91 mm x 91 mm x 22 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6131/38-24-500	2CKA006132A0403		0.08	1
aluminium silver	–	6131/38-183-500	2CKA006132A0404		0.08	1

6179/01-204-500

Busch-Watchdog 220° KNX
Sensor angle: 220° Range: approx. 16 m. With 2 movement channels. With 1 twilight channel with 3 switching thresholds. No remote control possible via IR remote control KNX. With integrated KNX bus coupler. No additional power supply necessary.
Surveillance density: 92 sectors with 368 switching segments.
Twilight sensor: approx. 1 – 1000 lux. Switch-off delay: approx. 10 sec to 1092 min.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpine white	–	6179/01-204-500	2CKA006132A0313		0.56	1
silver metallic	–	6179/01-208-500	2CKA006132A0314		0.56	1

6179/02-204-500

Busch-Watchdog 220° KNX premium
Sensor angle: 220° Range: approx. 16 m. With 4 movement channels. With 1 twilight /brightness channel with 3 switching thresholds. With 1 temperature channel with three switching thresholds. With 7-channel IR remote control. Remote control possible via IR remote control KNX 6179 (included in scope of delivery). With integrated KNX bus coupler.
No additional power supply necessary. Surveillance density: 92 sectors with 368 switching segments. Twilight sensor: approx. 1 –1000 lux; Brightness sensor: approx. 1 – 80 klux; Temperature sensor: approx. – 25 to + 55 °C; Switch-off delay: approx. 10 sec to 1092 min.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpine white	–	6179/02-204-500	2CKA006132A0317		0.56	1
silver metallic	–	6179/02-208-500	2CKA006132A0318		0.56	1

6179-500

BW IR remote control KNX
For Busch-Watchdog 220 MasterLINE KNX premium. The functions can be freely assigned. With coded transmission signal. Power supply: lithium button cell battery. Type CR202 (included in delivery). Battery life: typically 2 years. Rated voltage: 3 V, Protection class (Device): IP 40, Temperature range (Device): 0 °C – 45 °C, Dimensions: (L x W x D): 86 mm x 40 mm x 7 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
grey / anthracite	–	6179-500	2CKA006132A0320		0.58	1

6868-201-500

Ceiling/corner adapter
For Busch-Watchdog 220 MasterLINE, Busch-Watchdog 220 MasterLINE select, Busch-Watchdog 220 MasterLINE premium, Busch-Watchdog 280 MasterLINE, Busch-Watchdog 220 MasterLINE KNX, Busch-Watchdog 220 MasterLINE KNX premium. For detection on two sides of the house, in combination with Busch-Watchdog 280. For ceiling mounting of the Busch-Watchdog.
To increase the inclination of the Busch-Watchdog 220/280. It is mounted at the corner of the house, on the wall or under the ceiling. For flush or surface wiring.
Dimensions: (L x W x D): 102 mm x 125 mm x 55 mm. Mounting height: 2.5 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
brown	–	6868-201-500	2CKA006800A2565		0.16	1
white		6868-204-500	2CKA006800A2562		0.16	1
silver metallic		6868-208-500	2CKA006800A2563		0.16	1
anthracite		6868-35-500	2CKA006800A2564		0.16	1

Efficient climate control in one system
ClimaECO the new product range for HVAC automation

Heating, ventilation, and air-conditioning automation – ClimaECO brings HVAC applications together in one holistic solution portfolio based on the standardized KNX system.

Heating circuit in one single system
ClimaECO is the holistic heating, ventilation, and air-conditioning (HVAC) automation solution for commercial buildings based on the proven ABB i-bus® KNX system. A solution that seamlessly integrates room automation, central HVAC functions, and management and automation into one system – a significant step towards increasing energy efficiency and reducing operational costs. ClimaECO – making your building more economical, sustainable, and comfortable.

—
When it comes to HVAC you often have to deal with several systems. ABB ClimaECO offers one solution for everything.

HVAC automation from the room level to the management level

HVAC –
multiple functions

Heating, ventilation, and air-conditioning technology is made up of various systems that are now integrated into one system.

Heating

Ventilation

Cooling
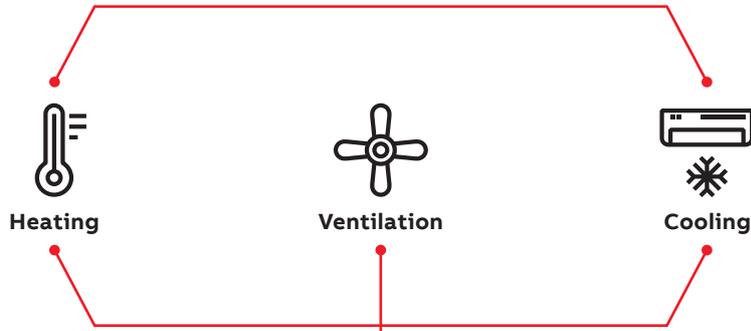
KNX –
a standardized system

With the proven ABB i-bus® KNX system it is possible to automate all HVAC applications and combine them into a single solution.

ABB i-bus® KNX
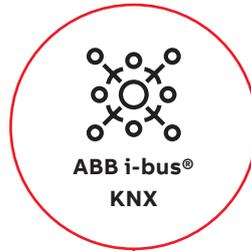
HVAC –
levels

ClimaECO combines the three different levels of HVAC automation, ranging from management level to central HVAC systems (generation and distribution) to room automation (energy consumption).

Room HVAC

Central HVAC

HVAC management and automation

Building management system (BMS) by BACnet
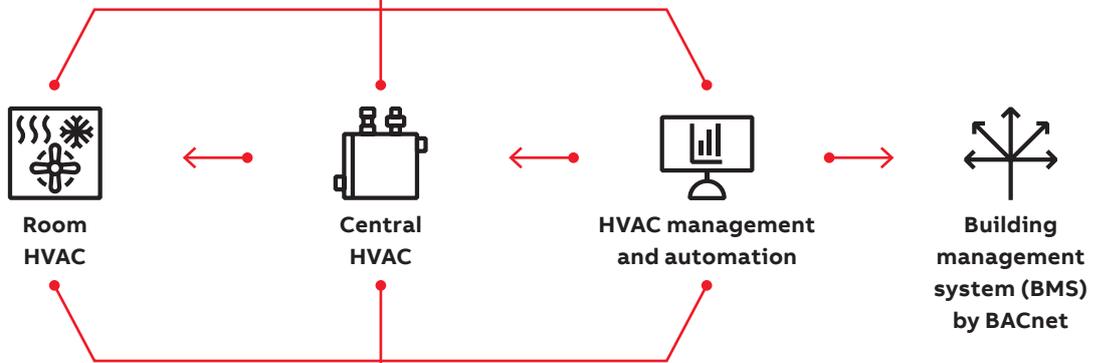
ClimaECO –
a holistic solution

ClimaECO bundles all functions and solutions for HVAC automation into a single integrated system. This saves you time and effort with planning, integration, and maintenance, while significantly increasing energy efficiency in buildings.
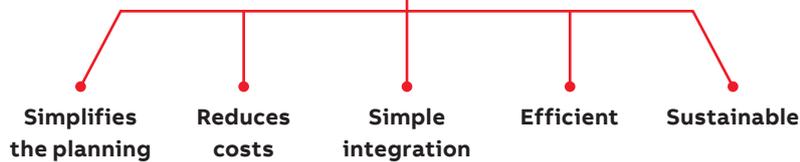
ClimaECO

Simplifies the planning

Reduces costs

Simple integration

Efficient

Sustainable

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Heating, Ventilation and Air Conditioning –
Influencing Variables on Room Climate

Influencing Variables on Room Temperature

Internal and external factors have an effect on the thermal conditions in a room or a building. As an external factor the solar radiation is important for the indoor temperature – particularly with regard to modern architecture with glass fronts. Besides this, the room temperature is strongly affected by the exchange of thermal energy through windows and walls as well as the loss of thermal energy through open doors and windows.

Depending on the intensity, all this interactions influence also the energy efficiency of a building and have therefore to be optimised.
Internal thermal inputs from lighting, devices or persons have also an influence on the room climate. By planning a heating, ventilation or air conditioning system all this internal and external factors have to be considered.

Influencing Variables on Air Quality

The indoor climate in living and working areas has a scientifically proven impact on health, job performance and well-being of people. A suitable indicator for determination of the room air quality is the CO_2 concentration. In addition the values for room temperature and air humidity must be controlled to meet the requirements for a comfortable room climate.

Studies have shown, that high CO_2 concentration in the air influences the well-being as well as the performance and learning ability of people. Besides the normal CO_2 concentration in the air, human respiration is an important factor increasing the CO_2 concentration in a room. Therefore it is important to measure the CO_2 concentration in rooms where many persons are present (schools, conference rooms, open-plan offices). Monitoring of thresholds enables fans to be switched via ABB i-bus® KNX allowing automatic control of the CO_2 concentration and sufficient supply of fresh air.
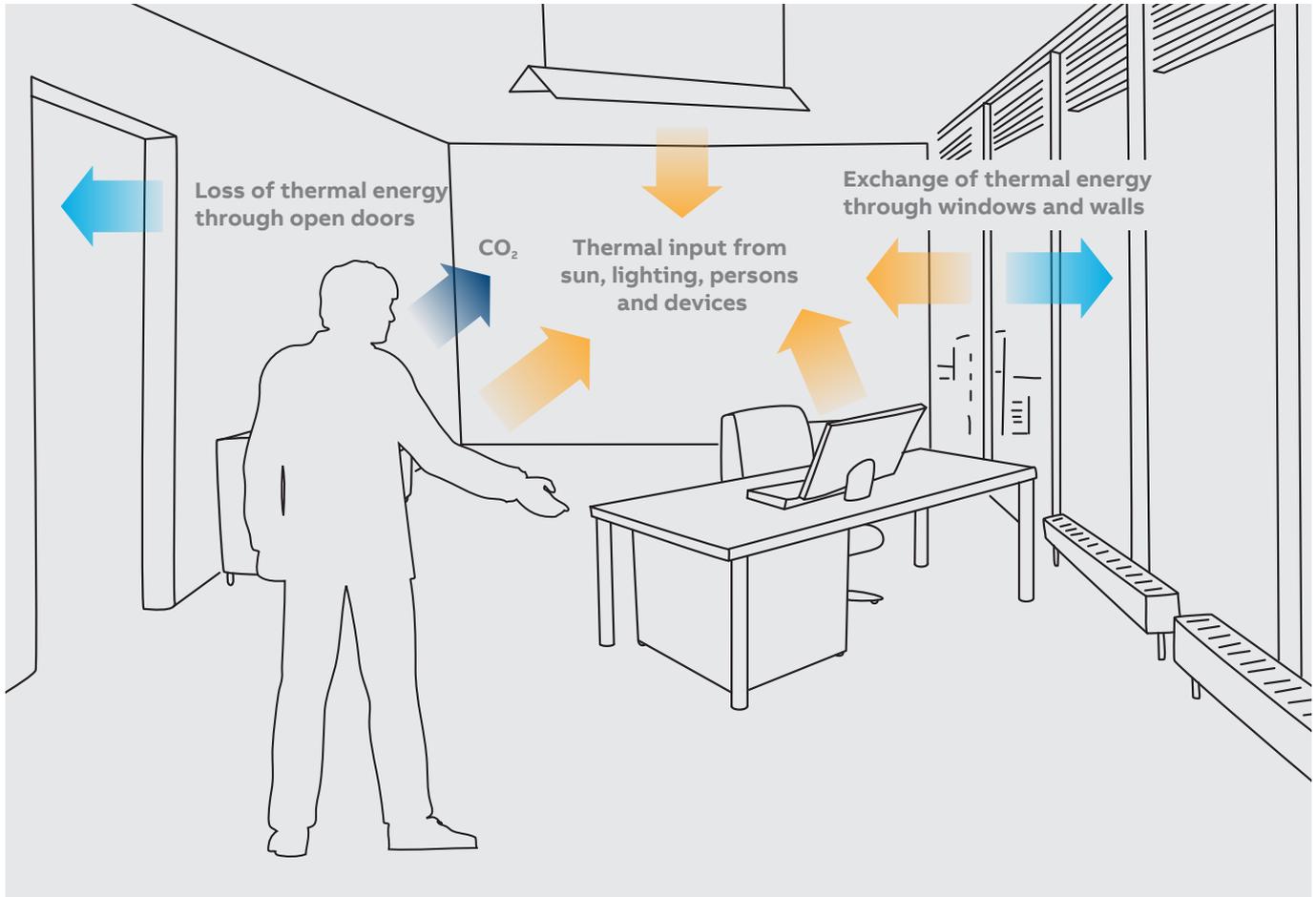
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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Heating, Ventilation and Air Conditioning – ClimaECO Sensor

Living and working with a feeling of well-being.

And here the air in the room is one of the most important factors. Because the body takes an ideal temperature for granted and therefore easily reacts to changes. Heated or air-conditioned rooms can be optimally adjusted – to a consistently pleasant ambience.

The KNX ClimaECO Sensors for stand-alone applications.

The ClimaECO Sensor with display is a room temperature controller for ventilator convectors or conventional systems for heating and cooling. This option offers complete air-conditioning for rooms. The temperature can be adjusted precisely for personal comfort. The fan speeds can be selected by push buttons. Even very large rooms can be heated or cooled to a comfortable temperature quickly – with additional air-conditioning units. The KNX ClimaECO Sensor can be operated individually. The bus coupler is integrated into the control element.

Function
- Temperature sensor
- RTC setting
- Illuminated display
- Fan Coil operation for heating and cooling

Features
- Very easy to operate with large, clear display
- Complete air conditioning
- Fan speeds can be manually selected
- Integrated bus coupler
- Surface-mounted, independent switching program
- Colours: studio white

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Heating, Ventilation and Air Conditioning –
ClimaECO Portfolio Overview

Management & Automation

Application Controllers
AC/S

User Operation

ABB ClimaECO Sensors
SBS/U

Room Control Units
SAR/A

Central HVAC Automation

HVAC Room Automation

Heating / Cooling Circuit Controllers
HCC/S

Boiler / Chiller Interfaces
BCI/S

Building Automation Controller KNX
BAC/S

Controllers

Fan Coil Controllers
FCC/S

Valve Drive Controllers
VC/S

Split Unit Gateway
SUG/U

Air quality sensor
LGS/A

	Electronic Switch Actuator ES/S x.1.2.1 (x = 4/8)	Electronic Relay ER/U 1.1 (in combination with US/U x.2 (x = 2/4)	Valve Drive Actuator VAA/S x.230.2.1 (x = 6/12)	Valve Drive Controller VC/S 4.1.1	Valve Drive Controller VC/S 4.2.1
General					
Supply voltage	KNX	24...250 V AC/DC	KNX	KNX	KNX
Type of installation	MDRC	Flush-mounted	MDRC	MDRC	MDRC
Module width (18 mm)	4/8	–	4/8	8	8
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Rated current (per channel)	1 A (resistive load)	0.5 A (resistive load)	160 mA (resistive load)	250 mA	250 mA
Inrush current (per channel)	8 A (1 s, Tu = 20 °C)	1.2 A (1 min.)	300 mA (2 min., Tu = 60 °C)	300 mA (2 min., Tu = 60 °C)	300 mA (2 min., Tu = 60 °C)
Maximum number of thermoelectric valve drives (per channel)	10 (230 V) 3 (24 V)	2 (230 V) 2 (24 V)	3 (230 V) 1 (24 V)	3 (230 V) 1 (24 V)	3 (230 V) 1 (24 V)
Outputs					
Number	4/8	1	6/12	4	4
Type	thermoelectric or motor valve drives	thermoelectric valve drives	thermoelectric valve drives	thermoelectric valve drives	thermoelectric valve drives
Output voltage	24... 230 V AC/DC	24... 230 V AC/DC	24...230 V AC	24...230 V AC	24...230 V AC
Manual operation					
Manual operation	■	–	■	–	■
Fault acknowledgement	■	–	■	–	■
Function:					
Operating mode Valve drive, thermoelectric/motor valve drives					
Forced operation	■	■ (via US/U x.2)	■	■	■
Status	■	–	■	■	■
Adjustable control value after controller fault	■	■ (via US/U x.2)	■	■	■
Valve purge	■	■ (via US/U x.2)	■	■	■
Characteristic curve adaption	■	–	■	–	–
Blocking	■	–	■	–	–
Operating mode Switch actuator					
Time: Staircase lighting, delay, flashing	■	–	–	–	–
8-bit scene	■	–	–	–	–
Logical functions	■	–	–	–	–
Safety settings	■	–	–	–	–
Threshold values	■	–	–	–	–
Integrated room temperature controller (RTC)	–	–	–	■	■
Use in Master/Slave system with room operation units	–	–	–	■	■
Control and diagnosis via ABB i-bus® Tool	–	–	–	■	■

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■ = Function is supported

– = Function is not supported

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Heating, Ventilation and Air Conditioning

VC/S 4.1.1

Valve Drive Controller, 4-fold, MDRC   NEW
For the control of heating and cooling applications in the room, such as radiator, floor heating or cooling ceiling. The device has 4 channels each for the independent control of a heating or cooling application. Each channel has an electronic valve output for the control of a thermoelectric valve drive, as well as 3 inputs to detect and monitor the room status (use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A) to the inputs of each channel. Each channel has its own integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device. The VC/S 4.2.1 features an easy to use manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	8	VC/S 4.1.1	2CDG110216R0011		0.27	1
Manual operation	8	VC/S 4.2.1	2CDG110217R0011		0.275	1

VAA/S 6.230.2.1

Valve Drive Actuator, 230 V, MDRC
Controls thermoelectric valve drives (e.g. TSA/K) in heating or cooling systems. Each three outputs are protected against short-circuit and overload. With manual operation and status display.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
6-fold	4	VAA/S 6.230.2.1	2CDG110116R0011		0.17	1
12-fold	8	VAA/S 12.230.2.1	2CDG110117R0011		0.3	1

VAA/A 6.24.2

Floor heating Controller, 6-fold, SM   NEW
For the control of up to twelve thermoelectric 24 V DC or analog 0-10V valve drives (two per channel). With integrated power supply for the valve drives. The device has an integrated relay output to switch the heating circuit pump in dependence of the control value of the valve outputs. The valve outputs can be controlled by the internal or an external room temperature controller. The device is suitable for the installation in the (floor) heating distribution system.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	VAA/A 6.24.2	2CDG120061R0011		0.5	1

ES/S 4.1.2.1

Electronic Switch Actuator, 4-fold, 1 A, MDRC

Controls thermoelectric valve drives (e.g. TSA/K) in heating and cooling systems. Each output (24...230 V AC/DC) is protected against short-circuit and overload. With manual operation and status display for each output.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold	4	ES/S 4.1.2.1	2CDG110058R0011		0.25	1
8-fold	8	ES/S 8.1.2.1	2CDG110059R0011		0.38	1

ER/U 1.1

Electronic Relay, 1-fold, FM

The device combination with the Universal Interface US/U and a room thermostat noiselessly controls the heating system and chilled ceiling temperature via thermo-electric valve drives e.g. TSA/K, 24 V...230 V AC/DC).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
–	–	ER/U 1.1	GHQ6310044R0111		0.08	1
2-fold	–	US/U 2.2	GHQ6310074R0111		0.06	1
4-fold	–	US/U 4.2	GHQ6310070R0111		0.06	1

6164/11 U-500

Heating actuator

1 electronic output (noiseless) For connecting thermoelectric actuating drives. The device possesses three additional input. Rated voltage: 230 V~, +10% /–10%, 50 Hz – 60 Hz. Input polling voltage 5 V. OutputRated current: 25 mA, cos φ 1. Output voltage: 250 V~. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
–	–	6164/11 U-500	2CKA006151A0247		0.09	1

ST/K 1.1

Electromotor Valve Drive

The drive is a proportional valve drive for controlling heating valves and is mounted on thermostat valve bases. Valve Adapters VA10, VA78 for conventional valves are supplied.
The control is carried out via a continuous KNX room thermostat. The actual valve position is indicated by 5 LEDs. The valve drive has two binary inputs for a presence contact and/or window contact and for further signal indication. With integrated Bus Coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
–	–	ST/K 1.1	2CDG120004R0011		0.32	1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Heating, Ventilation and Air Conditioning

SE/K 1.868.1

EnOcean Valve Drive

The Valve Drive EnOcean is used for efficient room temperature control. It communicates via the wireless, bidirectional EnOcean protocol. The Valve Drive has a large display for showing the current room temperature setpoint and a setting dial for manual setpoint adjustment. Via the ABB i-bus® KNX/EnOcean Gateway (EG/A 32.2.1) the Valve Drive EnOcean can easily be included in every KNX system.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SE/K 1.868.1	2CDG120051R0011		0.28	1

TSA/K 230.2

Thermoelectric Valve Drives

For opening and closing valves in heating, ventilation and air-conditioning systems. Both variants (230 V and 24 V) feature a plug-in connection cable (1 m) and a splash-proof housing. The mounting on the valve is easily implemented using the Valve Adapter VA/Z xx.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
230 V	–	TSA/K 230.2	2CDG120049R0011		0.16	1
24 V	–	TSA/K 24.2	2CDG120050R0011		0.16	1
Valve Adapter for valves from Dumser, Chronatherm, Vescal, KaMo	–	VA/Z 10.1	2CDG120009R0011		0.06	1
Valve Adapter for valves from Honeywell, Reich, Cazzaniga, Landis & Gyr. MNG	–	VA/Z 50.1	2CDG120010R0011		0.05	1
Valve Adapter for valves from Danfoss RA	–	VA/Z 78.1	2CDG120011R0011		0.03	1
Valve Adapter for valves from Heimeier, Herb, Onda, Schlösser (ab 93), Oventrop	–	VA/Z 80.1	2CDG120012R0011		0.06	1

SUG/U 1.1

Split Unit Gateway, FM

The Split Unit Gateway forms the interface between the KNX system and many manufacturers' air conditioners, so-called split units. The device converts the KNX telegrams into infrared commands and transmits them to the split unit. The transmitter of the supplied cable is bonded directly onto the split unit's receiver. The split unit then no longer receives the commands from a remote control. Instead, it can be operated via any KNX sensors or via a visual display system. The device is put into operation with the ETS, and a free ETS app is available to select the split unit model. Auxiliary voltage is not required.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SUG/U 1.1	2CDG110207R0011		0.02	1

	Fan Coil Controller				
	FCC/S 1.1.1.1	FCC/S 1.1.2.1	FCC/S 1.2.1.1	FCC/S 1.2.2.1	FCC/S 1.3.1.1
General					
Supply voltage	KNX	KNX	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	MDRC	MDRC	MDRC	MDRC	MDRC
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Manual operation	–	■	–	■	–
Software functionality					
Integrarted room temperature controller (RTC)	■	■	■	■	■
Use in Master/Slave System with room operation units	■	■	■	■	■
Fan outputs					
Number of fans	1	1	1	1	1
Fan type:					
1/2/3 step	■	■	■	■	–
Rated current I_n	5 A	5 A	5 A	5 A	–
Rated voltage U_n (50/60 Hz)	250 V AC	250 V AC	250 V AC	250 V AC	–
Continues Fan (0 … 10 V)	–	–	–	–	■
Valve outputs					
Electronic 0,5 A	2	2	–	–	–
Analog 0…10 V	–	–	2	2	2
Control individual	■	■	■	■	■
Supported valve types:					
– Thermoelectric valve drive (PWM)	2	2	–	–	–
– Motor-driven valve drive (3-point)	1	1	–	–	–
– Analog valve drive or	–	–	2	2	2
– 6-way valve drive	–	–	1	1	1
Switching contact					
Number of contacts	1	1	1	1	1
Rated current I_n	16 A	16 A	16 A	16 A	16 A
Rated voltage U_n (50/60 Hz)	250 V AC	250 V AC	250 V AC	250 V AC	250 V AC
Inputs					
Number of inputs	4	4	4	4	4
Supported sensors:					
– Temperature sensor	■	■	■	■	■
– Dew Point sensor	■	■	■	■	■
– Level sensor	■	■	■	■	■
– Binary signal input	■	■	■	■	■
– Analog room control unit (SAR/A or SAF/A)	1	1	1	1	1
Fan Coil Unit type					
2 pipe					
Heating	■	■	■	■	■
Cooling	■	■	■	■	■
Heating/Cooling	■	■	■	■	■
4 pipe					
Heating/Cooling	■	■	■	■	■
Commissioning and diagnostic function					
Control and diagnosis via ABB i-bus® Tool	■	■	■	■	■

—

■ = Function is supported

– = Function is not supported

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Heating, Ventilation and Air Conditioning

	Fan Coil Controller			
	FCC/S 1.3.2.1	FCC/S 1.4.1.1	FCC/S 1.5.1.1	FCC/S 1.5.2.1
General				
Supply voltage	KNX	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	MDRC	MDRC	MDRC	MDRC
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Manual operation	■	–	–	■
Software functionality				
Integrarted room temperature controller (RTC)	■	■	■	■
Use in Master/Slave System with room operation units	■	■	■	■
Fan outputs				
Number of fans	1	1	1	1
Fan type:				
1/2/3 step	–	■	–	–
Rated current I_n	–	5 A	–	–
Rated voltage U_n (50/60 Hz)	–	250 V AC	–	–
Continues Fan (0 … 10 V)	■	–	■	■
Valve outputs				
Electronic 0,5 A	–	1	2	2
Analog 0…10 V	2	–	–	–
Control individual	■	■	■	■
Supported valve types:				
– Thermoelectric valve drive (PWM)	–	1	2	2
– Motor-driven valve drive (3-point)	–	–	1	1
– Analog valve drive or	2	–	–	–
– 6-way valve drive	1	–	–	–
Switching contact				
Number of contacts	1	–	1	1
Rated current I_n	16 A	–	16 A	16 A
Rated voltage U_n (50/60 Hz)	250 V AC	–	250 V AC	250 V AC
Inputs				
Number of inputs	4	4	4	4
Supported sensors:				
– Temperature sensor	■	■	■	■
– Dew Point sensor	■	■	■	■
– Level sensor	■	■	■	■
– Binary signal input	■	■	■	■
– Analog room control unit (SAR/A or SAF/A)	1	1	1	1
Fan Coil Unit type				
2 pipe				
Heating	■	■	■	■
Cooling	■	■	■	■
Heating/Cooling	■	■	■	■
4 pipe				
Heating/Cooling	■	–	■	■
Commissioning and diagnostic function				
Control and diagnosis via ABB i-bus® Tool	■	■	■	■

—

■ = Function is supported

– = Function is not supported

| | **Blower Actuators** | | **FanCoil Actuators** | | | |
	FCL/S 1.6.1.1	**FCL/S 2.6.1.1**	**FCA/S 1.1.1.2**	**FCA/S 1.1.2.2**	**FCA/S 1.2.1.2**	**FCA/S 1.2.2.2**
General						
Supply voltage	KNX	KNX	KNX	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	4	6	6	6	6	6
Current consumption, bus	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA	< 12 mA
Manual operation	–	–	–	■	–	■
Fan outputs						
Number of fans	1	2*	1	1	1	1
Supported fan types:						
– 1/2/3 step or	■	■	■	■	■	■
– 3 individual contacts	–	–	■	■	■	■
Rated current I_n	6 A	6 A	6 A	6 A	6 A	6 A
Rated voltage U_n	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)
Valve outputs						
Electronic 0.5 A	–	–	4	4	–	–
Analog 0...10 V	–	–	–	–	2	2
Control individual	–	–	■	■	■	■
Supported valve types:						
– Thermoelectric valve drive (PWM)	–	–	4	4	–	–
– Motor-driven valve drive (3-point)	–	–	2	2	–	–
– Analog valve drive	–	–	–	–	2	2
Valve type can be mixed	–	–	■	■	–	–
Switching contact						
Number of contacts	1	2 (5)*	1	1	1	1
Rated current I_n	6 A	6 A	16 A	20 A	16 A	20 A
Rated voltage U_n	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)	250/440 V AC (50/60 Hz)
Inputs						
Number of inputs	–	–	3	3	3	3
Supported sensors:						
– Switch sensor	–	–	■	■	■	■
– Value/forced operation	–	–	■	■	■	■
– Temperature sensor	–	–	■	■	■	■
Fan Coil Unit type						
2 pipe						
Heating	–	–	■	■	■	■
Cooling	–	–	■	■	■	■
Heating/Cooling	–	–	■	■	■	■
4 pipe						
Heating/Cooling	–	–	■	■	■	■
Various						
Parallel operation	–	–	■	■	■	■
Commissioning and diagnostic function						
Control and diagnosis via ABB i-bus® Tool	–	–	■	■	■	■

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■ = Function is supported

– = Function is not supported

* = Second fan output can be used as 3 switch outputs

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Heating, Ventilation and Air Conditioning

FCC/S 1.1.1.1

Fan Coil Controller PWM, 3-stage, MDRC   NEW

For the control of fan coil units. Via two electronic outputs, two thermoelectric or one mo-
tor-driven valve drive can be controlled for heating and cooling. For the fan control the de-
vices features three relay outputs. A relay output switches an additional load of up to 16 A,
such as auxiliary heating. Over 4 inputs the room status can be detected and monitored (Use
for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible
to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device.
The device has an integrated room temperature controller for the control of the room tem-
perature, which can be used directly to control the outputs of the device. The FCC/S 1.1.2.1
features an easy to use manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commis-
sioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.1.1.1	2CDG110210R0011		0.28	1
Manual operation	6	FCC/S 1.1.2.1	2CDG110211R0011		0.285	1

FCC/S 1.2.2.1

Fan Coil Controller, 0 – 10 V, 3-stage, MDRC   NEW

For the control of fan coil units. Via two analog outputs, two analog valves or one 6-way
valve drive can be controlled for heating and cooling. For the fan control the devices features
three relay outputs. A relay output switches an additional load of up to 16 A, such as auxiliary
heating. Over 4 inputs the room status can be detected and monitored (Use for window con-
tact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one
analog room control unit (SAR/A or SAF/A) to the inputs of the device. The device has an in-
tegrated room temperature controller for the control of the room temperature, which can be
used directly to control the outputs of the device. The FCC/S 1.2.2.1 features an easy to use
manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commis-
sioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.2.1.1	2CDG110212R0011		0.23	1
Manual operation	6	FCC/S 1.2.2.1	2CDG110213R0011		0.235	1

FCC/S 1.3.1.1

Fan Coil Controller, 0 – 10 V, 0 – 10 V, MDRC　　　　　　　　　　**NEW**

For the control of fan coil units. Via two analog outputs, two analog valves or one 6-way valve drive can be controlled for heating and cooling. For the fan control the devices features an analog output for the control of a continues fan. A relay output switches an additional load of up to 16 A, such as auxiliary heating. Over 4 inputs the room status can be detected and monitored (Use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device. The device has an integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device. The FCC/S 1.3.2.1 features an easy to use manual operation.

Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.3.1.1	2CDG110214R0011		0.21	1
Manual operation	6	FCC/S 1.3.2.1	2CDG110215R0011		0.215	1

FCC/S 1.4.1.1

Fan Coil Controller, PWM, 3-stage, MDRC　　　　　　　　　　**NEW**

For the control of fan coil units. Via one electronic output, a thermoelectric valve drive can be controlled for heating and cooling. For the fan control the devices features three relay outputs. Over 4 inputs the room status can be detected and monitored (Use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device. The device has an integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device.

The device supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.4.1.1	2CDG110209R0011		0.215	1

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FCC/S 1.5.2.1

Fan Coil Controller, PWM, 0 – 10 V, MDRC   **NEW**

For the control of fan coil units. Via two electronic outputs, two thermoelectric or one motor-driven valve drive can be controlled for heating and cooling. For the fan control the devices features an analog output for the control of a continues fan. A relay output switches an additional load of up to 16 A, such as auxiliary heating. Over 4 inputs the room status can be detected and monitored (Use for window contact, dew point sensor, level sensor or temperature sensor). Also it is possible to connect one analog room control unit (SAR/A or SAF/A) to the inputs of the device. The device has an integrated room temperature controller for the control of the room temperature, which can be used directly to control the outputs of the device. The FCC/S 1.5.2.1 features an easy to use manual operation.
Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCC/S 1.5.1.1	2CDG110234R0011		0.21	1
Manual operation	6	FCC/S 1.5.2.1	2CDG110235R0011		0.215	1

FCA/S 1.1.2.2

Fan Coil Actuator, PWM, MDRC   **to be discontinued**

For the control of typical blower convectors via four electronic outputs for thermoelectric or motor-driven valve drives. Furthermore, three outputs for individual fan speeds are provided. An additional load output switches an additional load (up to 16 A), such as auxiliary heating. Window contacts, condensed water signals and temperature signals can be read via three universal inputs and transferred via KNX bus. The FCA/S 1.1.2.2 features an easy to use manual operation and enables quick commissioning. The Fan Coil Actuator supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	FCA/S 1.1.1.2	2CDG110195R0011		0.34	1
Manual operation	6	FCA/S 1.1.2.2	2CDG110194R0011		0.34	1

FCA/S 1.2.2.2

Fan Coil Actuator, 0 - 10 V, MDRC   **to be discontinued**

For the control of typical blower convectors via two analogue outputs for 0...10 V valve drives. Furthermore, three outputs for individual fan speeds are provided. An additional load output switches an additional load (up to 16 A), such as auxiliary heating. Window contacts, condensed water signals and temperature signals can be read via three universal inputs and transferred via KNX bus. The FCA/S 1.2.2.2 features an easy to use manual operation and enables quick commissioning. The Fan Coil Actuator supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	FCA/S 1.2.1.2	2CDG110196R0011		0.34	1
Manual operation	6	FCA/S 1.2.2.2	2CDG110193R0011		0.34	1

FCL/S 2.6.1.1

Blower Actuator, 6 A, MDRC

to control blowers or fans with up to three fan speeds via step or changeover control.
The FCL/S 1.6.1.1 have one fan output and one additional floating switch output. The
FCL/S 2.6.1.1 feature two fan outputs plus two floating switch outputs. Alternatively the sec-
ond fan output can be used as three switch outputs.
The fan speed can be directly choosen, increased and decreased as well as controlled by the
control value of a closed-loop controller.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold	4	FCL/S 1.6.1.1	2CDG110163R0011		0.18	1
2-fold	6	FCL/S 2.6.1.1	2CDG110164R0011		0.26	1

SAF/A 1.0.1-24

Room Temperature and FanCoil Control Element, SM   **NEW**
The control element is used in conjunction with the FCC/S Fan Coil Controller or the VC/S
Valve Controller for temperature adjustment, measurement and fan speed adjustment.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SAF/A 1.0.1-24	2CKA006134A0348			1

SAR/A 1.0.1-24

Room Temperature Control Element, SM   **NEW**
The control element is used in conjunction with the FCC/S Fan Coil Controller or the VC/S
Valve Controller for temperature adjustment and measurement.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SAR/A 1.0.1-24	2CKA006134A0346			1

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Smarter Solutions for Home and Building Automation
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6138/11-84-500

Room Thermostat Fan Coil with Display, SM
Sends control values for the room to the Fan Coil Actuators or devices with the respective outputs (e.g. Room Master). The intuitive control operation allows each user to individually set the room temperature and the fan speed. The large LC display can display the actual and target temperatures, the current operating mode as well as the fan speeds. With integrated Bus Coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
aluminium silver	–	6138/11-83-500	2CKA006138A0005		0.092	1
davos/studio white	–	6138/11-84-500	2CKA006138A0003		0.092	1

LGS/A 1.2

Air Quality Sensor with RTC, SM   **NEW**
For the control and measuring of the room air quality and temperature. Accurately measures the CO_2 concentration (390…10.000 ppm), humidity (0…100 %) and temperature (0…50 °C) in a room and sends the values on the bus. By using the integrated thresholds the measured values can be monitored. With the integrated controller it is possible to control the room temperature and HVAC actuators. With integrated Bus Coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	LGS/A 1.2	2CDG120059R0011		0.06	1

	Heating/Cooling Circuit Controller HCC/S 2.1.x.1	Heating/Cooling Circuit Controller HCC/S 2.2.x.1
General		
Supply voltage	KNX	KNX
Type of installation	MDRC	MDRC
Module width (17.5 mm)	8	8
Number of channels	2	2
Outputs		
3- way mixing valve control type	0 … 10 V DC	3 – Point
Valve outputs per channel	1	1
Pump control output per channel	1 (5 A)	1 (5 A)
Inputs		
Input for flow temperature measurement per channel	1	1
Input for return flow temperature measurement per channel	1	1
Inputs for pump status monitoring (pump status, pump failure, pump repair mode) per channel	3	3
Manual operation		
Manual operation	HCC/S 2.1.2.1	HCC/S 2.2.2.1
Software functionality		
Integrated temperature controller for heating or cooling distribution circuits	■	■
Forced operation	■	■
Cyclical monitoring of input values	■	■
Flow temperature limitation	■	■
Safety shutdown temperature	■	■
Manual valve overwrite	■	■
Valve purge	■	■
Manual pump overwrite	■	■
Pump control in dependence of control value	■	■
Channel bundling for double pump systems	■	■

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■ = Function is supported

– = Function is not supported

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Smarter Solutions for Home and Building Automation
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HCC/S 2.1.2.1

Heating/Cooling Circuit Controller, 0 – 10V, 2-fold, MDRC   **NEW**

For the control of a heating or cooling circuit. The device has 2 channels, each with an analog output to control the mixing valve (0…10V) of a heating or cooling circuit as well as a relay output (5A) to switch the pump of the circuit. Via 3 binary inputs it is possible to monitor the status of the pump (via potential free contacts) and integrate these feedback into the control of the pump. The flow and return flow temperature are measured and used for the calculation of the control value for the valve output in the integrated controller. The set point temperature is received via the KNX bus. By bundling both channels of the device it is also possible to use it for double pump systems

The HCC/S 2.1.2.1 features an easy to use manual operation.

Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	HCC/S 2.1.1.1	2CDG110218R0011		0.28	1
Manual operation	6	HCC/S 2.1.2.1	2CDG110219R0011		0.285	1

HCC/S 2.2.1.1

Heating/Cooling Circuit Controller, 3-Point, 2-fold, MDRC   **NEW**

For the control of a heating or cooling circuit. The device has 2 channels, each with two electronic outputs to control a motor-driven mixing valve (3-Point) of a heating or cooling circuit as well as a relay output (5 A) to switch the pump of the circuit. Via 3 binary inputs it is possible to monitor the status of the pump (via potential free contacts) and integrate these feedback into the control of the pump. The flow and return flow temperature are measured and used for the calculation of the control value for the valve output in the integrated controller. The set point temperature is received via the KNX bus. By bundling both channels of the device it is also possible to use it for double pump systems

The HCC/S 2.2.2.1 features an easy to use manual operation.

Both devices support the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	HCC/S 2.2.1.1	2CDG110220R0011		0.285	1
Manual operation	6	HCC/S 2.2.2.1	2CDG110221R0011		0.29	1

BCI/S 1.1.1

Boiler/Chiller Interface, 1-fold, MDRC **NEW**

As interface between the KNX system and a heat generator or chiller. Via an analog output (0…10 V) the set point or set point adjustment temperature can be transmitted to the heat generator/chiller. The set point itself is received via KNX. Via two binary inputs the device can monitor the status of the heat generator/chiller (via potential free contacts) and send it on the KNX bus. A relay output (5 A) is included to switch or enable/disable the heat generator/chiller. With an additional relay output (5 A) the pump of the heat generator/chiller can be switched on and off. Via 3 binary inputs it is possible to monitor the status of the pump (via potential free contacts) and integrate these feedback into the control of the pump.
The device supports the ABB i-bus® Tool for advanced diagnosis and improved commissioning.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	6	BCI/S 1.1.1	2CDG110222R0011		0.21	1

BAC/S 1.5.1

Building Automation Controller, KNX **NEW**

Powerful freely programmable KNX Building Automation Controller with flexible expandable In- and Output Modules.
Automation programs based on the globally standardized IEC 61131 programming languages can be executed. Both the graphical and textual programming languages are supported.
The programming software ABB Automation Builder based on the established Codesys software enables the easy creation and reuse of automation programs as well as the integration of software libraries. The ABB Automation Builder is integrated with the ETS through an ETS app.
Up to 1000 KNX group objects can be used in the automation program. The KNX relevant settings such as physical address, linking of the controller group objects with group addresses and the KNX sending conditions are set in the ETS and can also be changed at any time without ABB Automation Builder.
The building automation controller has two Ethernet network interfaces. The use is flexible adjustable. In addition to KNXnet/IP communication, these can also be used for other protocols and functions. Among other things, for Modbus TCP and a web server with a freely customizable web interface for display and operation of the system.
The controller has a built-in display, an RS-232/485 interface for i. a. Modbus. The internal clock and data variables can be buffered by a battery. The internal memory of 8 MB can be extended by the memory card slot.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BAC/S 1.5.1	2CDG120062R0011		0.3	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Heating, Ventilation and Air Conditioning

BCE/Z 1.1

BAC Engineering Software   NEW
License for the engineering software of the BAC/S Building Automation Controller KNX:
ABB Automation Builder 2.x license in the Building Automation variant.
This license is valid for a single computer and allows the programming of any number of
BAC/S Building Automation Controllers.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCE/Z 1.1	2CDG120069R0011		0.01	1

BCM/S 16.2.0.1

BAC-Module, 16DI, 100 – 240 V   NEW
Extension module for the BAC/S Building Automation Controller KNX with 16 digital inputs
for 100 - 240 V AC. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 16.2.0.1	2CDG120063R0011		0.23	1

BCM/S 16.1.1

BAC-Module, 16DI/DO, 24 V, 0.5 A   NEW
Extension module for the BAC/S Building Automation Controller KNX with 16 switchable dig-
ital inputs or outputs for 24V DC. The electronic transistor outputs switch 0.5 A. Connection
of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 16.1.1	2CDG120064R0011		0.19	1

BCM/S 16.1.3.1

BAC-Module, 8DI 24 V + 8DO Relay   NEW
Extension module for the BAC/S Building Automation Controller KNX with 8 digital inputs
and 8 digital outputs. The digital inputs process 24 V DC signals. The relay outputs switch
a maximum of 2 A at 24 V DC and a maximum of 1.5 A at 120/240 V AC. Connection of the ca-
bles via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 16.1.3.1	2CDG120065R0011		0.21	1

BCM/S 8.0.2.1

BAC-Module, 8DO, 230 V, 0.3 A   NEW

Extension module for the BAC/S Building Automation Controller KNX with 8 digital outputs. The digital triac outputs switch a maximum of 0.3 A at 120/240 V AC. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 8.0.2.1	2CDG120066R0011		0.18	1

BCM/S 6.5.5.1

BAC-Module, 4AI + 2AO, U/I   NEW

Extension module for the BAC/S Building Automation Controller KNX with 4 analog inputs and 2 analog outputs. The inputs and outputs support voltage signals from 0 V ... + 10 V, 0 V ... + 5 V, -2.5 V ... + 2.5 V and - 5 V ... + 5 V as well as current signals of 0 mA ... 20 mA and 4 mA ... 20 mA. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 6.5.5.1	2CDG120067R0011		0.18	1

BCM/S 2.6.0.1

BAC-Module, 2AI, Temperature   NEW

Extension module for the BAC/S Building Automation Controller KNX with 2 analog inputs for temperature sensors. Temperature sensors of type Pt100, Pt1000, Ni100, Ni1000 and 150 Ohm, 300 Ohm are supported. Connection of the cables via pluggable spring terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	BCM/S 2.6.0.1	2CDG120068R0011		0.19	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Heating, Ventilation and Air Conditioning

AC/S 1.1.1

Application Controller, MDRC   **NEW**

The AC/S Application Controller has predefined Automation Modules for a holistic HVAC Automation Solution from Central HVAC to Room Automation. For example Schedule, Set Point Calculation, Heat Curve Calculation, Data Logging and Device Monitoring. Furthermore own Automation Modules can be created by a graphical Logic Editor. By a web based User Interface the whole system can be monitored and managed. The AC/S 1.2.1 has additional a built in bidirectional KNX-BACnet/IP Gateway (Server) for data exchange with superordinate Building Management Systems.

The Engineering is done completely by the ETS Version 5.6.5 or higher. An additional external Software is not required. The device has a KNX TP port and requires for operation an auxiliary power supply, either via 24 V AC/DC or via PoE.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Basic	4	AC/S 1.1.1	2CDG110205R0011		0.19	1
BACnet	4	AC/S 1.2.1	2CDG110206R0011		0.19	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Automation, Logic and Time Control

	Logic Module LM/S 1.1	Application Unit, Logic ABL/S 2.1	Application Unit,Time ABZ/S 2.1	Logic Controller ABA/S 1.2.1
General				
Supply voltage	KNX	KNX	KNX	24 V / PoE
Ethernet connection	–	–	–	■
Type of installation	MDRC	MDRC	MDRC	MDRC
Module width (18 mm)	2	2	2	4
Software function				
Logic gates	■	■	–	■
Gate/filter	■	■	–	■
Multiplexer	–	–	–	■
Flip Flop	–	–	–	■
PID Controller	–	–	–	■
Composite function blocks	–	–	–	■
Time delay	■	■	–	■
Staircase lighting/Pulse duration	■	■	–	■
Calculation	□	–	–	■
Min./Max.	■	■	–	■
Comparator/Threshold	■	■	–	■
Format converter	■	–	–	■
Counter	■	–	–	■
Calendar switch program	–	–	■	■
Day routines	–	–	■	■
Week routines	–	–	■	■
Year routines	–	–	■	■
Special days	–	–	■	–
Daylight saving times	–	–	■	–
Telegram multiplier	■	–	■	■
Simulation (offline)		–	–	■
Webserver	–	–	–	■
Programming via KNX	■	■	■	■
Programming via Ethernet	–	–	–	■
Max. number of function elements	3	140	30	3000
Monitoring (online)	–	–	–	■

—

■ = Function is supported

– = Function is not supported

□ = Limited functions

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Automation, Logic and Time Control

LM/S 1.1

Logic Module, MDRC

Used to solve a varied range of project-specific control tasks and can implement 3 functions simultaneously. The following functions are available for selection: logic gate, filter, time delay, multiplier, min/max value detector, temperature comparator, toggle values, threshold detection, format converter, scenes, increment/decrement values, staircase lighting.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	LM/S 1.1	GHQ6310080R0111		0.1	1

ABL/S 2.1

Application Unit, Logic, MDRC

Allows the compilation of complex logical functions by simply combining different logic elements and gates using a graphical user interface as an ETS plug-in and does not require additional software. 50 logical elements, 50 gates, 30 timer modules and 10 comparators are available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	ABL/S 2.1	2CDG110073R0011		0.12	1

ABZ/S 2.1

Application Unit, Time, MDRC

It provides a yearly time clock program with 15 daily routines (800 switching events), a weekly schedule and allowance for 100 special days. Additionally, the unit can control up to 300 participants in 30 macro groups, that can be triggered using a single command. In this way, each time controlled switching event can cause a series of actions. The switching times can be modified with the free PZM software without using ETS. PZM Software and additional information on www.abb.com/knx.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	ABZ/S 2.1	2CDG110072R0011		0.12	1

ABA/S 1.2.1

Logic Controller, MDRC

The device provides extensive logic functions. The logic is defined via a graphic editor integrated in the ETS. Up to 3000 logic gates are possible.
The generated logic can be tested by a simulation function. User-defined function blocks can be created and saved for taking them over into other projects.
The device requires an auxiliary voltage, either 24 V DC or Power over Ethernet (PoE). If timer functions are used the date and time has to be provided via KNX/TP.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	ABA/S 1.2.1	2CDG110192R0011		0.192	1

FW/S 8.2.1

Radio Time Switch , 8-channel, MDRC

The Radio Time Switch sends current time and date on the bus. The time can be optionally received via a DCF or GPS antenna. Furthermore the device can be used to easily adjust the time programs.
The device provides 8 channels. Every channel supplies an independent daily, time and/or yearly program. Additionally, special programs (e.g. for vacation or public holiday days) are possible.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	3	FW/S 8.2.1	2CDG120039R0011		0.33	1

FAD/A 1.1

DCF-Antenna for Radio Time Switch, SM

For the connection to the Radio Tme Switch FW/S 8.2.1. The time signal from the DCF 77 transmitter can be received within a radius of approx. 1000 km around Frankfurt.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FAD/A 1.1	2CDG120040R0011		0.17	1

FAG/A 1.1

GPS-Antenna for Radio Time Switch, SM

For the connection to the Radio Time Switch FW/S 8.2.1. The device receives time and date via GPS signal which is available worldwide.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FAG/A 1.1	2CDG120041R0011		0.21	1

PS/E 2.1

Programming Set OBELISK top2 for Radio Time Switch

The programming set contains a CD ROM with the Obelisk top2 for the creation of switching programs for the Radio Time Switch FW/S 8.2.1, a memory card PK/E 2.1 for transferring switching programs to the Radio Time Switch and a USB programming adapter for the memory card.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	PS/E 2.1	2CDG120042R0011		0.20	1

—

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Automation, Logic and Time Control

PK/E 2.1

Memory Card for OBELISK top2
The memory card can be used for transferring switching programs to Radio Time Switch.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	PK/E 2.1	2CDG120043R0011		0.02	1

TR/A 1.1

Time Receiver GPS, SM   **NEW**
For the reception and processing of the GPS signal, as well as for brightness and temperature measurement. The sensor measures the brightness and outside temperature and sends them on the KNX bus. Likewise the time, date and geographical coordinates are send to the KNX bus. Additionally the sunrise and sunset times are also send to the bus. With integrated Bus Coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TR/A 1.1	2CDG120060R0011		0.09	1

—

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Visualisation, Display and Signalling

UK/S 32.2

Universal I/O Concentrator, 32-fold, MDRC

Used to connect push buttons or signal lamps, e.g. to an operating/display tableau. It has 32 channels which can be freely parameterised as inputs/outputs using the ETS software. The device requires an external 12 or 24 V DC auxiliary power supply, (e. g. NT/S 24.800).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	UK/S 32.2	2CDG110071R0011		0.18	1

**MT 701.2, WS
with T-RAHM, WS**

Control and Display Tableau, LCD

For indication of switching status, fault reports and measurement values. Using the robust push buttons, electrical consumers can be manually switched, values can be set in addition to timer programs and light scenes. The alarms can also issue an acoustic warning. The FM wall box simplifies mounting.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
silver	–	MT 701.2, SR	GHQ6050059R0006		1.24	1
white	–	MT 701.2, WS	GHQ6050059R0005		1.16	1
Coverframe, silver	–	T-RAHM, SR	GHQ6050059R0012		0.17	1
Coverframe, white	–	T-RAHM, WS	GHQ6050059R0011		0.16	1
Wall box	–	UP-KAST 2	GHQ6050059R0014		0.44	1

Centralised and comfortable operation
The new freedom

Modern home automation has never been as comfortable. With intuitive gestures, the way you operate your smartphone or tablet. This is how you control light, blinds, heating, music and much more with the utmost in comfort. Individual or in single scenes. Just as you please via expressive touch panels or via app of mobile devices. Both at home and while travelling. Discover the possibilities of limitless freedom.

—
01

Device features worth mentioning:
- Capacitive touch with the support swiping gestures
- Up to 30 pages with a maximum of 480 control elements
- 30 logic functions
- 80 fault and alarm messages which can be stored in a list and exported
- Up to 30 weekday timers with astro function which can be set by the user
- A favourite page with a maximum of 16 favourite control elements
- Indoor video station for door communication
- Presence simulation

The colour display has a diagonal of 17.78 cm (7") in 16:9 format. The special feature of the Busch-SmartTouch®: It has a minimal mounting height only 13 mm. The panel is available in two colour versions – in genuine black or white glass. This allows it to be perfectly combined with the carat® and Busch-axcent® switch ranges. The bottom design bar made of brushed stainless steel lends the panel that visual refinement.

In combination with the mounting frame the Busch-SmartTouch® can be mounted on the old ABB control panel box, normal flush-mounted boxes or also on the new ABB-Welcome table stand.

—
01 Busch-SmartTouch®,
black

Busch-ComfortTouch®

The Busch-ComfortTouch® combines the functions of home automation and an infotainment and entertainment centre in a beautiful touch panel.

Device features worth mentioning:
- Up to 20 RTC controllers for different rooms
- Graphic logic editor
- Scene editor for the individual settings of scenes by the user
- Up to 200 weekday timers with astro function
- Integration of up to 10 IP cameras. Supported are Axis, Mobotix and cameras with ON-VIF protocol.
- Intercom option (with picture) via integrated IP telephine
- Indoor video station for ABB-Welcome door communication via the IP gateway
- Activation of lights, blinds or scenes via the infrared remote control
- For the control of Hue lamps via KNX with the integrated Philips Hue gateway
- Presence simulation

—
01

The operating surface

The versatile Busch-ComfortTouch® units combine the functions of modern home automation with infotainment and entertainment functions. The user operating surfaces are designed to provide a clear overview and can be operated intuitively with a swiping motion of the fingers. The examples shown here are representative for the numerous operating options for all areas of the building.

Navigation with slide function

The intelligent Busch-ComfortTouch® is especially easy and comfortable to operate. The menu structure has been further optimized ergonomically. It now offers the practical slide function, the popular swiping motion with the fingers on the monitor of mobile terminal devices. This allows you to control the easy-to-view, colour touch displays – with a 9" or 12.1" screen diagonal – just as fast and easily as those popular on the smartphone and tablet. This makes navigating from function to function even easier, more natural and intuitive.

—
01 Busch-
ComfortTouch®,
white

Busch-ControlTouch®

Smartphones, tablets and smartwatches or PCs turn into
a practical remote control, thanks to the Busch-ControlTouch®.
It connects the KNX installation with the IP network
and controls all KNX functions in the building.

Device features worth mentioning:
- External access the the KNX system
- Easy creation of individual scenes
- Integrated weekly timer
  (with astro function)
- Integrated logic editor
- Recording and display
  of diagrams
- Sonos and Philips Hue connection
- Connection of IP cameras with MJPEG
  protocol possible
- Integrated rights and user
  management
- Alarm messages via e-mail and/or push
  notification
- iOS widget for fast access from the mobile
  terminal device
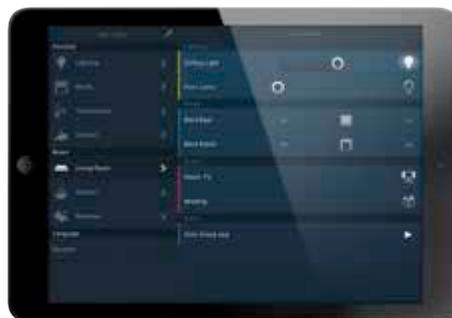
The applications for iOS and Android create in-
tuitive operation the same as the PC applica-
tion. The compact 4 MW DIN rail can be param-
eterized via the MyBuildings portal, thereby
making it completely future-oriented for fu-
ture system extensions and modifications.
In addition: Many useful services (e.g. external
access to the KNX system or a notification ser-
vice) through connection to the MyBuildings
portal Cloud are very easy to implement.
Whether in a single residential unit, in a
large apartment block or at the workplace –
the Busch-SmartTouch® intelligently controls
the home automation. Either locally or while
travelling. With the Busch-SmartTouch®
you have complete access at all times.

Busch-VoiceControl® KNX
Control completely by voice

The building of the future recognises the needs of its users.
It reacts individually – automatically and without being asked
to do so.

—
01 Busch-
VoiceControl® KNX

—
01

- Approved solution for three systems
- Integration of lighting, heating and
  blind control systems
- All three voice commands can
  be used simultaneously
- Control up to 150 functions
- HomeKit certification allows control
  of the KNX system from other Home-
  Kit devices, such as the iPad, iPhone
  and Apple TV

—
busch-jaeger.de/busch-voicecontrol
abb.com/knx

—

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Visualisation, Display and Signalling

6136/07-811-500

Busch-SmartTouch® 7"

Free programmable KNX touch display as a control, notification and operation center for the entire house. Works as a video indoor station with the ABB-Welcome Door Entry System. During the conversation a picture of the visitor can be taken and stored in the picture memory. For the display and operation of the following KNX standard functions: switching, dimming, slider, blind, RGBW LED control, step switch, RTC, scene switch, display element, audio control. With scene and logic functions, presence simulation and time programs.
Displays alerts and malfunctions. Available with induction loop for connecting to hearing aid devices. Programmable with up to 16 functions per page.
External power supply: 20 – 32 V DC (SELV) or through the ABB-Welcome bus. The freely programmable touch display (7") comes with a resolution of 1024 x 600.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white glass	–	6136/07-811-500	2CKA006136A0205		0.94	1
black	–	6136/07-825-500	2CKA006136A0206		0.94	1

6136/27-811-500

Surface Mounting Frame for SmartTouch 7"

Surface mounting frame for mounting the Busch-SmartTouch 7" 6136/07-8xx-500 on:
- standard flush mounted wall box VDE & BS
- flush mounted installation box (6136/UP) or
- to be mounted directly on the wall
- to be mounted on the ABB-Welcome table stand

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6136/27-811-500	2CKA006136A0209		0.358	1
black	–	6136/27-825-500	2CKA006136A0210		0.358	1

6136/07 UP-500

Flush Mounted Wall Box for SmartTouch 7"

For flush mounting and hollow panel mounting of the Busch-SmartTouch 7" 6136/07-8xx-500. Windproof.
Dimensions flush mounting (H x W x D): 152 mm x 235 mm x 60 mm.
Dimensions hollow wall (H x W x D): 146 mm x 227 mm x 50 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6136/07 UP-500	2CKA006136A0212		0.549	1

Power Supply Unit, 24 V DC, 2.5 A

For Busch-SmartTouch® 7" 6136/07-8xx-500, Busch-priOn® Power Bus Coupler 6120/13-500 and Busch-ControlTouch® 6136/APP-500.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	CP-D 24/2.5	2CDG120037R0011		0.252	1

CP-D 24/2.5

ComfortPanel 9"

Free programmable IP/KNX touch display can be used as a control, infotainment and entertainment centre for the whole house With a closed capacitative glass surface and a design strip made of stainless steel (brushed). With integrated camera and proximity sensor. Easy control using intuitive navigation concept. House control: switching, dimming, blinds, RTR, scene/sequences, timed controls Entertainment: Multimedia, remote control RC5 and B&O. Infotainment: IP telephony, RSS reader, intercom with picture, e-mail, voice and graphic memo, consumption data monitoring. Door communication: Indoor station for the ABB-Welcome system in combination with IP gateway 83341. Safety: video surveillance with IP cameras, alarm function, message function, presence simulation. Representation from individual floor plans, room images and operation pages. 23 cm (9") Touch-display with 800 x 480 pixel Compatible with ABB i-bus® KNX Maintenance via remote control over IP. Control with smartphones and tablets via the ComfortTouch App (Apple iOS /Google Android from Version 4).

8136/09-811-500

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white glass	–	8136/09-811-500	2CKA008136A0024		2.27	1
glas black	–	8136/09-825-500	2CKA008136A0026		2.27	1

ComfortPanel 12"

Free programmable IP/KNX touch display can be used as a control, infotainment and entertainment centre for the whole house With a closed capacitative glass surface and a design strip made of stainless steel (brushed). With integrated camera and proximity sensor. Easy control using intuitive navigation concept. House control: switching, dimming, blinds, RTR, scene/sequences, timed controls Entertainment: Multimedia, remote control RC5 and B&O. Infotainment: IP telephony, RSS reader, intercom with picture, e-mail, voice and graphic memo, consumption data monitoring. Door communication: Indoor station for the ABB-Welcome system in combination with IP gateway 83341. Safety: video surveillance with IP cameras, alarm function, message function, presence simulation. Representation from individual floor plans, room images and operation pages. 23 cm (9") Touch-display with 800 x 480 pixel Compatible with ABB i-bus® KNX Maintenance via remote control over IP. Control with smartphones and tablets via the ComfortTouch App (Apple iOS /Google Android from Version 4).

8136/12-811-500

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white glass	–	8136/12-811-500	2CKA008136A0028		3.94	1
glas black	–	8136/12-825-500	2CKA008136A0030		3.513	1

—

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Visualisation, Display and Signalling

6186/01 UP-500

Power Supply Module TP
Power adapter for the power supply of Comfort-Touch 8136/09-… and 8136/12-…. With integrated KNX bus coupler for the establishment of the local bus connection to the ABB i-bus® KNX. With integrated audio outputs (LineOut). Rated voltage: 110 V~ – 230 V~, +10% / –10%. Rated frequency: 50 Hz – 60 Hz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6186/01 UP-500	2CKA006186A0023		0.526	1

8136/01 UP-500

Mounting Box, FM
For flush-mounted and hollow-wall installation of the Busch-ComfortTouch® 8136/09-…, 8136/12-… . Windproof.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	8136/01 UP-500	2CKA008136A0032		0.26	1

6136/UP

Flush Mounted Wall Box for Controlpanel
For flush-mounted and hollow-wall installation of the Busch-ComfortTouch 8136/09…, 8136/12-… . Dimensions (H x W x D): 163.5 mm x 199 mm x 60 mm. Mounting depth: 60 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6136/UP	2CKA006136A0124		0.293	1

6136/APP-500

Busch-ControlTouch®, MDRC **NEW**

Freely programmable IP-/KNX gateway as multi-room app control for the KNX system.
MDRC devices with associated IOS and Android apps. Easy control using intuitive navigation concept. Representation of individual operating pages with list view.
Complete web-based commissioning. Home automation, switching, dimming, blind, RTC control, scene/sequences, timing, Philips Hue.
Entertainment: multimedia integration via UPnP.
Infotainment: monitoring of usage data for up to 3 years.
Safety: video surveillance with IP cameras, message function via push messages or e-mail.
Time programs and scenes can be created by the end customer.
Access via KNXnet/IP tunnelling.
Script editor for logic functions.
Compatible with ABB i-bus® KNX.
Control with smartphones and tablets via the ControlTouch app (Apple iOS /Google Android).
External power supply: 5-36 V DC (SELV).
Control element: freely programmable touch surfaces,
Rated voltage: 5 V- - 36 V-, Bus voltage: 24 V-,
Protection class (Device): IP 20, Temperature range (Device): 0 °C to 70 °C,
Dimensions: (L x W x D): 90 mm x 72 mm x 60 mm, Module width: 4 MW, Position for installation: Horizontal

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	6136/APP-500	2CKA006136A0202		0.254	1

VCO/S 99.1

Busch-VoiceControl, MDRC **NEW**

A certified voice control gateway for the combination of a KNX system with a voice control system. Acts as a gateway and guarantees that you can operate the KNX components in a house and query their status using Apple, Amazon or Google devices. This component makes it possible to operate the lighting, blind or room temperature controller using simple voice control. Up to 99 functions can be used. Busch-VoiceControl® is an official certified HomeKit accessory. Complete web-based commissioning. Compatible with ABB i-bus® KNX. External power supply: 5-36 VDC (SELV).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	VCO/S 99.1	2CKA006136A0217		0.254	1

CP-D 24/2.5

Power Supply Unit, 24 V DC, 2.5 A

For Busch-SmartTouch® 7" 6136/07-8xx-500, Busch-priOn® Power Bus Coupler 6120/13-500 and Busch-ControlTouch® 6136/APP-500.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	CP-D 24/2.5	2CDG120037R0011		0.252	1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Energy Management

ABB offers various solutions for decentral energy measurement on the basis of the KNX standard.

Version 1
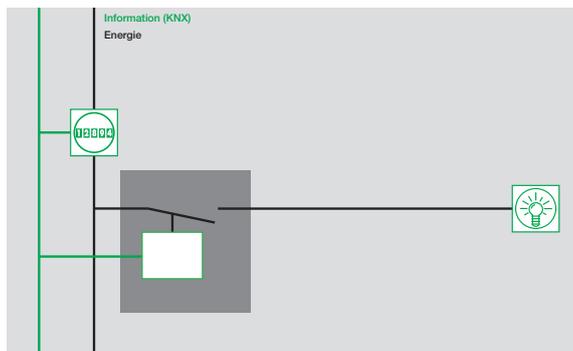
Electronic energy meters make the current energy values available on the KNX bus system in conjunction with a KNX interface. The measured data can be intermediately stored, evaluated and visualized from here.

Version 2
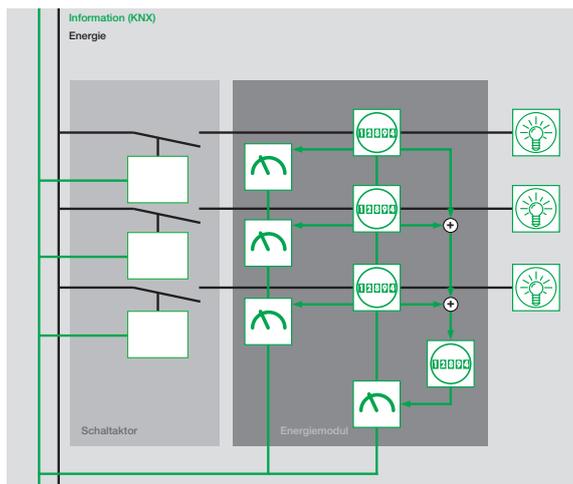
The Energy Module can record the energy consumption for the individual devices. It is used particularly when upgrading existing KNX systems and wherever energy measurement is required without switch functions. It facilitates a detailed and transparent insight into the energy consumption of a building. The current meter values can be sent and evaluated.

Version 3
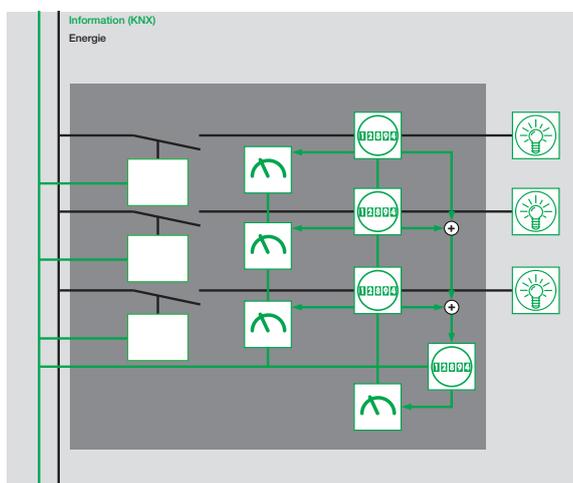
The Energy Actuator facilitates control of the connected consumer loads via the ABB i-bus® KNX. For each of the three switch channels, the individual consumption can be measured in the same way as for the Energy Module. For every channel, the proven functionality of the ABB i-bus® KNX Switch Actuators are available.

Intermediate meter for electrical energy   Electrical consumer (load)   Energy meter

	Energy Module EM/S 3.16.1	Energy Actuator SE/S 3.16.1	Meter Interface Module ZS/S 1.1 [1]
General			
Supply voltage	KNX	KNX	KNX
Type of installation	MDRC	MDRC	MDRC
Module width (18 mm)	4	4	2
Number of channels	3	3	–
Rated current I_n	16/20 A	16/20 A AX (C-Load)	–
Measuring range Current	0.025...20 A	0.025...20 A	Depending on meter connected [2]
Measuring range Voltage	95...265 V	95...265 V	Depending on meter connected [2]
Measuring range Frequency	45...65 Hz	45...65 Hz	50/60 Hz ± 5 %
Measurement values			
E – Active energy [kWh]	■	■	■
U – Voltage [V]	■	■	■
I – Current [A]	■	■	■
F – Frequency [Hz]	■	■	■
P – Active power [W]	■	■	■
Q – Reactive power [var]	–	–	■
S – Apparent power [VA]	■	■	■
PF – Power factor	■	■	■
CF – Crest factor	■	■	–
General functions			
Function Switch	–	■	–
Function Time	–	■	–
Function Scene	–	■	–
Function Logic	–	■	–
Function Priority	–	■	–
Load control with Energy Actuators as Master (up to ten SE/S 3.16.1 as slaves)	■	■	–
Load control as Slave	–	■	–
Sending delay (for value request)	–	–	■
Commissioning and diagnostic function			
Control and diagnosis via ABB i-bus® Tool	■	■	–

—

■ = Function is supported

– = Function is not supported

1) = In combination with ABB Energy Meter A and B series

2) = See also Electricity Meters Overview

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Energy Management

SE/S 3.16.1

Energy Actuator, 3-fold, 16/20 AX, MDRC

Records the energy consumption of the connected electrical loads in the load circuit. Various electrical variables can be monitored and load peaks can be limited by simple load control. The 3 output channels can be manually operated and display the current switching state. The Energy Actuator can switch resistive, inductive and capacitive loads The switching capacity corresponds to the SA/S X.16.6.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	SE/S 3.16.1	2CDG110136R0011		0.3	1

EM/S 3.16.1

Energy Module, 3-fold, 16/20 AX, MDRC

Measures energy consumption and various electrical parameters in the terminal current. Active power, Current, Voltage and Frequency can be monitored via threshold values and peak loads can be limited through a simple load control. The measured values are provided via ABB i-bus® KNX.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	4	EM/S 3.16.1	2CDG110148R0011		0.2	1

ZS/S 1.1

Meter Interface Module, MDRC

It records consumption and measured values of the electrical energy consumption meters. Using an infra-red interface, the ABB energy meter types of the A- and B-series are incorporated. The information and data which is read can be used, for example, for cost centre accounting, energy optimisation, monitoring of installations and visualisation.

The following values are available (depending on the meter type):

Meter reading		**Currents**	L1, L2, L3, N
Active energy	Tariff 1-4, total	Phase angle voltage	L1, L2, L3, total
Reactive energy	Tariff 1-4, total	Phase angle current	L1, L2, L3, total
		Quadrant	L1, L2, L3, total
Power values		Mains frequency	
Active power	L1, L2, L3, total		
Reactive power	L1, L2, L3, total	**Other**	
Apparent power	L1, L2, L3, total	Transformer ratio	Read CT and VT
Phase angle power	L1, L2, L3, total	Power failures	Send and delete
Power factor	L1, L2, L3, total	Tariffs	Read and changeover
		Status information	Send and read
Instrument values		Communication monitoring	
Voltages	L1-N, L2-N, L3-N, L1-L2, L2-L3, L1-L3	Intermediate meter	Read and reset

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	ZS/S 1.1	2CDG110083R0011		0.13	1

EQmatic Energy Analyzer
Energy management
is getting smarter

Identify energy guzzlers and sustainably reduce energy costs – ABB's EQmatic Energy Analyzer makes it possible. The intelligent energy meter from the EQmatic range uses M-Bus or Modbus to read, save, and analyze energy consumption data from electric, gas, water, and heat meters. It accesses meters via an intuitive, web-based user interface, which can be flexibly configured to meet specific demands. Especially practical: the energy meters can be extended at any time when needed.

new.abb.com/buildings/eqmatic

ABB

—

Smarter Solutions for Home and Building Automation
Energy Management
EQmatic

With the new EQmatic series, ABB offers a solution for storing, displaying and analyzing the consumption data of electricity, gas, water and heat meters. Thus, energy flows and costs in the building can be monitored and made transparent. This serves to increase energy efficiency and as a basis for further operational optimizations, based on the energy management standard ISO 50001.

The commissioning, evaluation and analysis of the data are carried out via the web-based graphical user interface.

For a detailed monitoring the devices offer several analysis functions such as historical data analysis, benchmark functions, cost analysis, instantaneous values etc. For a quick overview, metering data and analytic charts can be individually configured and arranged on a dashboard page.

Various export functions such as scheduled reports via FTP or E-Mail are available for further data processing.

The data sharing options via Modbus TCP and API allow the integration into supervisory systems.
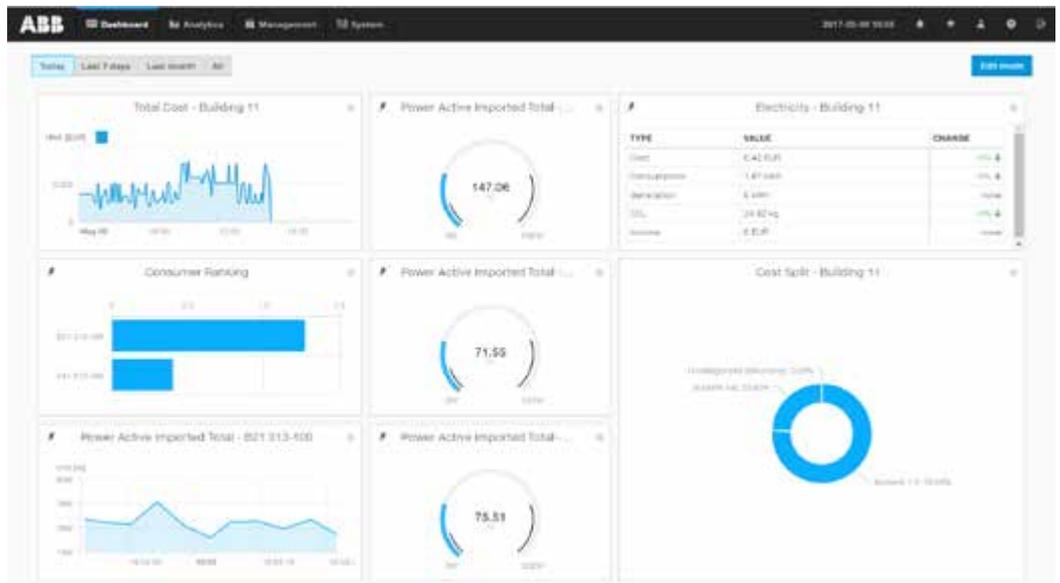
Smarter Solutions for Home and Building Automation

Energy Management

QA/S 3.16.1

QA/S 3.64.1

Energy Analyzer, M-Bus, MDRC*

Compact and web-based stand-alone devices for energy management applications. For monitoring, logging, displaying and analyzing consumption data of up to 16 or 64 electricity, gas, water or heat meters via M-Bus. Automatic detection for ABB EQ meters (A/B-Series). Access to the device via web browser. The user interface provides graphical analysis functions, e.g. dashboard, historical data, instantaneous values, benchmark functions, cost allocation according to consumer groups and more. Various export functions and APIs are available for further processing of metering data.

* Pure M-Bus Master, no data routing from M-Bus to KNX

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
M-bus, 16 Devices	4	QA/S 3.16.1	2CDG110226R0011		0.15	1
M-bus, 64 Devices	4	QA/S 3.64.1	2CDG110227R0011		0.15	1

QA/S 4.16.1

QA/S 4.64.1

Energy Analyzer, Modbus, MDRC*   **NEW**

Compact and web-based stand-alone devices for energy management applications. For monitoring, logging, displaying and analyzing consumption data of up to 16 or 64 electricity, gas, water or heat meters via Modbus RTU. Automatic detection for ABB EQ meters (A/B-Series). Access to the device via web browser. The user interface provides graphical analysis functions, e.g. dashboard, historical data, instantaneous values, benchmark functions, cost allocation according to consumer groups and more. Various export functions and APIs are available for further processing of metering data.

* Pure Modbus RTU Master, no data routing from Modbus RTU to KNX

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Modbus RTU, 16 Devices	4	QA/S 4.16.1	2CDG110228R0011		0.15	1
Modbus RTU, 64 Devices	4	QA/S 4.64.1	2CDG110229R0011		0.15	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Safety and Monitoring

SMB/S 1.1

Fault Monitoring Unit, MDRC

It is used to detect and manage up to 100 fault messages which are processed within the unit and can be forwarded to a display unit. Furthermore, an optical and an acoustic collective status signal is provided. Messages can be acknowledged and data losses can be reported. The devices support message formats to DIN 19 235: messages with continuous lighting, new value messages with simple flashing light, initial value messages with simple acknowledgement, motor messages. Current values can be centrally scanned.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	**Order code**	**€**	**kg**	**pc.**
	2	SMB/S 1.1	GHQ6310085R0111		0.12	1

EUB/S 1.1

Monitoring Unit, MDRC

Monitors up to 100 bus devices in KNX systems, which can be divided into 5 groups. The devices are monitored to ensure their presence and minimum functionality (send and receive). Monitoring can be undertaken based on the physical address or the group address. A total of four different monitoring modes are available.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	**Order code**	**€**	**kg**	**pc.**
	2	EUB/S 1.1	2CDG110066R0011		0.12	1

BDB/S 1.1

Data Logging Unit, MDRC

It detects local operation cycles and operating hours to plan the maintenance or durability evaluation of the devices. For each of the 35 channels to be monitored, limit values can be set and a message sent if this limit is exceeded. The logging of operating hours can be predetermined for the total or remaining time. These values can be modified via communication objects.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	**Order code**	**€**	**kg**	**pc.**
	2	BDB/S 1.1	2CDG110067R0011		0.12	1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Security – Alarm System KNX

The compact solution for security applications – the Security Terminals
The Security Terminal provides a compact security solution for KNX applications for detection and signalling of intrusion, personal attack and technical hazards. They are used as the interface between the security technology sensors and KNX.

Depending on the configuration, the devices feature 2, 4 or 8 inputs – so-called detector circuits or zones. They are used for monitoring connected passive detectors (e.g. magnetic contacts, glass break sensors, etc.) to the ABB i-bus® KNX as well as for connection of floating contacts in applications with enhanced security requirements.

Through the connection of security technology and KNX, the detectors employed can, in addition to the security functions, also be used for heating control (e.g. window contact signal for control of the heating valve) or lighting control (e.g. central switch off of the lighting when the alarm logic is set).

The Security Terminals can be used as autonomous systems with the integrated alarm logic, in conjunction with the Security Module SCM/S or with an Intrusion Alarm Panel GM/A 8.1 or L240.

The application program offers several functions for security applications, such as
- Direct and delayed setting
- Internal setting with occupancy and external setting when absent
- Setting of the connected detector types
- Reset input and setting input
- Detector monitoring
- Zones (detector circuits) can be switched off
- Different types of alarms
- Setting for freely programmable relay outputs, e.g. for direct control of signalling devices.

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Security – Alarm System KNX

	Standard Security				Professional Security
	MT/U 2.12.2	MT/S 4.12.2M	MT/S 8.12.2M	SCM/S 1.1	GM/A 8.1
General					
Supply voltage	KNX	KNX	KNX	KNX	100 – 230 V AC
Auxiliary power supply	12 V DC	12 V DC	12 V DC	–	–
Type of installation	FM	MDRC	MDRC	MDRC	SM
Module width (18 mm)	–	4	4	2	–
Inputs (extendable via bus)	2	4	8	0 (64)	8 (344)
Outputs	2 x Relais	3 x Relais	3 x Relais	1 x Relais	4 x Relais 4 x Signaling devices
Functions					
Connection of conventional security sensors/devices	■	■	■	–	■
Connection of 4-wired security bus sensors/devices	–	–	–	–	■
Event log	–	–	–	■ (250)	■ (10,000)
Remote alarming	Optional via KNX	Optional via KNX	Optional via KNX	Optional via KNX	Integrated E-Mail Voice messages
Back-up power supply					
Optional via NTU/S 12.2000.1 and SU/S 30.640.1	■	■	■	–	–
Optional via SU/S 30.640.1	–	–	–	■	–
Integrated back-up power	–	–	–	–	■
Certifications					
VdS	–	–	–	–	Class C
EN 50 131/IEC 62 642	–	–	–	–	Grade 3
Commissioning and diagnostic functions					
Commissioning and diagnostic via webserver	–	–	–	–	■

—

■ = Function is supported

– = Function is not supported

SCM/S 1.1

Security Module, MDRC

The module provides the necessary logic functions to link the various KNX devices (e.g. zone terminals) to a security system. Up to 64 different zones can be evaluated via communication objects. Arming, operation and display are also implemented using communication objects. The device has a freely programmable relay output for connection of a signal encoder. An un-interruptable KNX power supply with battery back-up is recommended for security function buffering on mains failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	SCM/S 1.1	2CDG110024R0011		0.13	1

MT/S 8.12.2M

Security Terminal

They are used as the interface between the security technology sensors and the KNX. The device features inputs, so-called zones. They are used for monitoring connected passive detectors, e.g. magnetic contacts and/or glass break sensors on the ABB i-bus® KNX and/or for connection of floating contacts in applications with enhanced security requirements. The device can be used as a system with autonomous alarm logic or in combination with the Security Module SCM/S or an Intrusion Alarm Panel. The device requires an external 12 V DC SELV auxiliary power supply, (e.g. NTU/S 12.2000.1).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, MDRC	4	MT/S 4.12.2M	2CDG110109R0011		0.19	1
8-fold, MDRC	4	MT/S 8.12.2M	2CDG110110R0011		0.19	1
2-fold, FM	–	MT/U 2.12.2	2CDG110111R0011		0.08	1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Security – Alarm System GMA
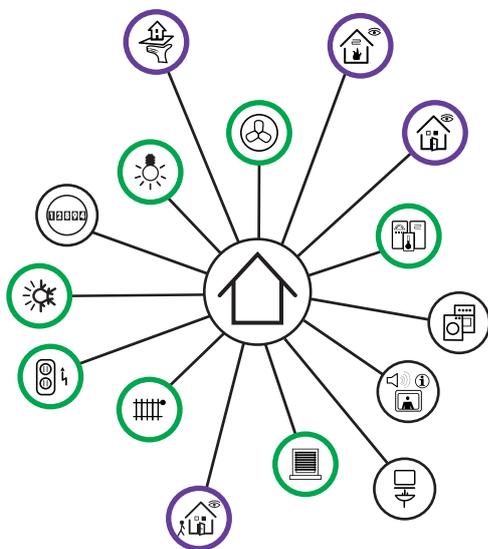
Professional alarm system for KNX experts

With the KNX Security Panel GM/A 8.1 ABB presents the first security system that is compatible with both, the international KNX standard (14543-3-x ISO / IEC) and the international standard for alarm systems (ISO / IEC 62642). Therefore the KNX Security Panel GM/A 8.1 is ready for a worldwide usage and expands business opportunities of nearly 40,000 KNX partners in 124 countries. The system is the perfect solution for projects ranging from simple to high security requirements.

Magnet reed contacts

Glass break sensors

Water detector

Gas detector

Smoke detector

SafeKey setting device

and

SafeKey Evaluation Module

Zone modules for security bus

Motion detectors for security bus

Alarming

Security bus

KNX

Bus for keypads

Ethernet
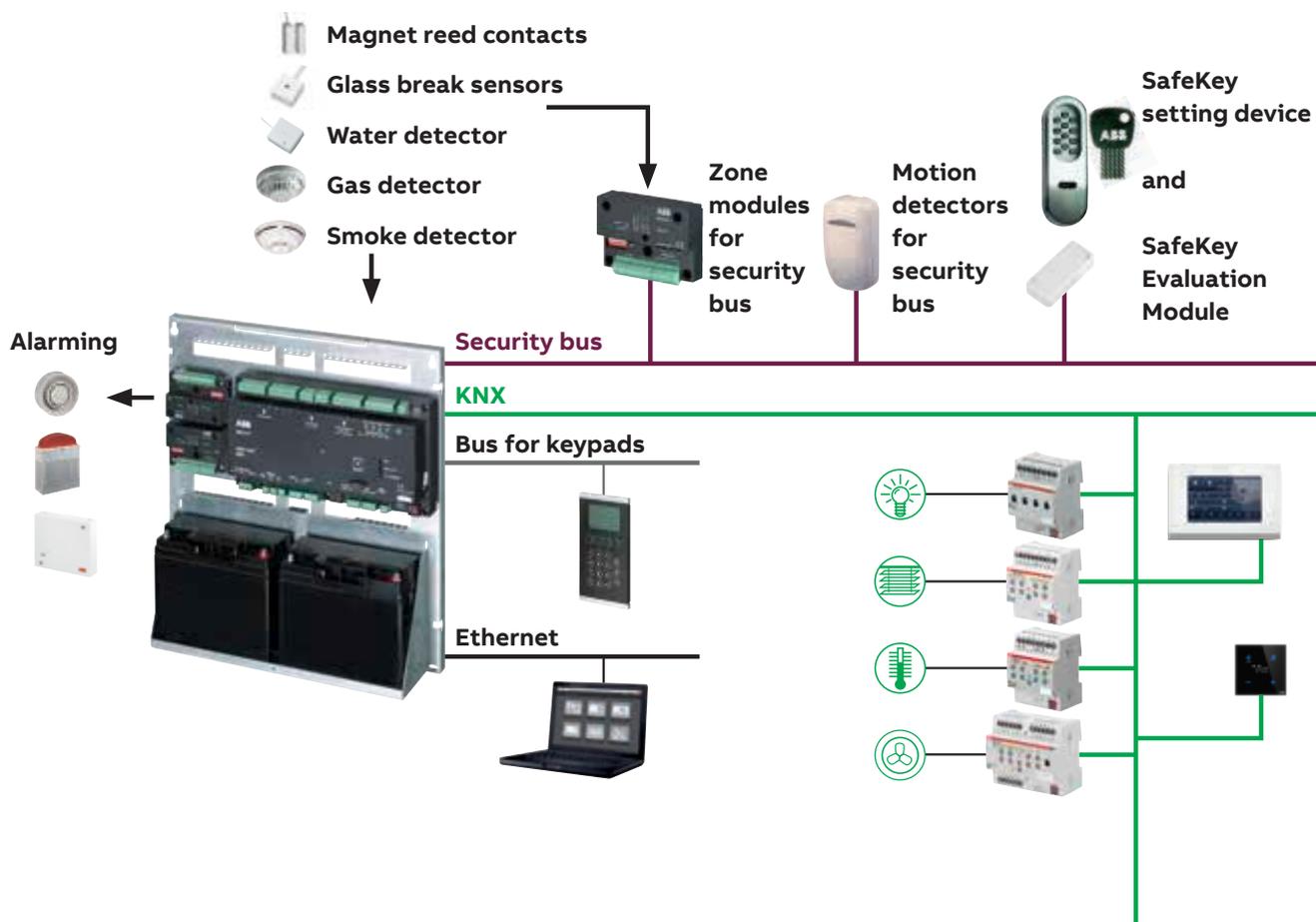
A complete product product portfolio: One system – all interfaces
To fulfill the project requirements ABB provides the user besides the panel and keypad a complete product portfolio for professional alarm technology as well as known solutions for all trades of KNX building automation.

The KNX Security Panel is for universal usage for all kinds of hazardous situations in buildings like intrusion, personal attack, smoke, gas- and water leakage.

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Security – Alarm System GMA

KNX Security Panel without cover, integrated zone modules and batteries

→ Ethernet connection for programming, diagnostics and operation via a standard webbrowser

← Direct inputs for security sensors

↔ Keypads

→ Internal, external or remote alarming

↔ Security bus for security sensors, zone modules and setting devices

↔ KNX interface to display alarm states via displays of building automation and to control automatic building functions with support of security sensors.

The KNX Security Panel provides all needed system interfaces: An ethernet connection is used for programming, diagnostics and operation via a standard webbrowser as well as integration into the building network. The security sensors will be connected directly to the panel inputs or via the security bus, where the setting device for the system is also connected. Furthermore the panel provides interfaces for the also newly developed keypads and for internal, external or remote alarming. Finally the integrated KNX interface allows on the one hand to display alarm states via displays of building automation and on the other to control automatic building functions with support of security sensors.

GM/A 8.1

KNX Security Panel, SM

for the protection of small to medium residential or commercial properties against intrusion and technical faults. The Security Panel is suitable for up to five logical areas. It has 8 integrated zones for detectors, a Security Bus for Bus-detectors, Bus-Zone Modules and Setting devices, Ethernet connection (RJ45) for programming, operating and displaying system status via Web-Browser and an integrated KNX interface. The Security Panel GM/A 8.1 complies with the requirements to VdS classes A, B and C, to the European Standard EN 50131, Grade 1 to 3 and to ISO/IEC 62642 Grade 1 to 3.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	GM/A 8.1	2CDG110150R0011		10.5	1
Off the wall tamper contact	–	WA/Z 1.1	2CDG110174R0011		0.2	1

SAK17

Sealed Lead Acid Battery, 12 V DC, 18 Ah

Sealed lead acid battery for power backup up of alarm systems. Maintenance free.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SAK17	GHV9240001V0013		6.487	1

BT/A 1.1

BT/A 2.1

Keypad for GM/A 8.1

to connect to Security Panel GM/A 8.1 via the Keypad-Bus. The Keypad allows easy operation of the Security Panel. System messages are displayed on a four-line LCD display. Fife Keypads can be connected to each Security Panel. There is no need for an external voltage supply, the keypads are supplied via the Keypad-Bus.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
black	–	BT/A 1.1	2CDG280001R0011		0.5	1
white	–	BT/A 2.1	2CDG280002R0011		0.5	1

—

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Security – Components

MG/A 4.4.1

Zone Module, 4-fold

to connect to Security Panel GM/A 8.1 via the Security-Bus. For expansion of the Security-Panel by 4 detector zones. Used for connection to the exterior perimeter detectors such as magnetic reed contacts and passive glass break sensors. The module has 4 zones to which several detectors can be connected. The status of each zone is displayed with a status LED. The Zone Module delivers the control signals and the supply voltage for the external detectors. There is no need for an external voltage supply, the Zone Modules are supplied via the Security-Bus.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
to mount in the Security Panel housing	–	MG/E 4.4.1	2CDG110178R0011		0.1	1
in a surface mounting housing for installation in the building	–	MG/A 4.4.1	2CDG110186R0011		0.1	1

**IR/XB
IR/XC**

Passive IR Bus Motion Detector, 15 m

For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1. The motion detectors with passive infra-red technology are registered for VdS classes B/EN Grade 2 and C/EN Grade 3 (anti-masking monitored). They facilitate monitoring of an area with an IR range of up to 15 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
VdS B/EN Grade 2	–	IR/XB	2CDG230023R0011		0.15	1
VdS C/EN Grade 3	–	IR/XC	2CDG230024R0011		0.15	1

**EIM/XB
EIM/XC**

Dualtech Bus Motion Detector, 15 m

For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1. The Dual-Motion Detector combines proven passive infra-red technology with temperature independent microwave technology. The combination of both functional principles results in a detector featuring high immunity to false alarms, even with unfavourable ambient conditions, and which still has high detection security. The detectors are registered for VdS classes B/EN Grade 2 and C/EN Grade 3 (anti-masking monitored). They facilitate monitoring of an area with an IR range of up to 15 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
VdS B/EN Grade 2	–	EIM/XB	2CDG230025R0011		0.15	1
VdS C/EN Grade 3	–	EIM/XC	2CDG230026R0011		0.15	1

MW

Mounting Bracket for IR/x and EIM/x
For motion detectors.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	MW	GHV9230039V0020		0.03	1

L240/BS

SafeKey Evaluation Module
For connection of the SafeKey components as well as all components required for a setting door (magnetic contacts, lock bolt switching contact, bolt lock, internal siren). For direct connection to the security-bus of the Intrusion Alarm Panel GM/A 8.1. The management of the electronic keys from the SafeKey range is undertaken completely via the WebUI of the Security Panel GM/A 8.1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	L240/BS	GHQ3050031R0001		0.13	1

SAD/GAP

Distribution Enclosure, SM
For installation of the Bus Module L240/BS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SAD/GAP	2CDG220021R0011		0.131	1

SCS

SafeKey Chipkey
It is an electronic carrier medium for setting / unsetting via a SafeKey Wall Reader. A SafeKey Chipkey can be authorized for any number of different SafeKey systems with different levels of authorization.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SCS	GHQ3050027R0001		0.02	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Security – Components

WEL/A, ES

SafeKey Wall Reader, SM

For setting/unsetting with the Evaluation Module L240/BS. The unit is actuated by inserting the electronic SafeKey chipkey. The SafeKey Wall Reader WEL is equipped with the key reader and an acknowledgement buzzer. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	WEL/A, ES	GHQ3050023R0001		0.38	1

WELT/A, ES

SafeKey Wall Reader with Keypad, SM

For setting/unsetting with the Evaluation Module L240/BS. The unit is actuated by inserting the electronic SafeKey chipkey and/or code. The SafeKey Wall Reader WELT is equipped with the key reader, keypad and an acknowledgement buzzer. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	WELT/A, ES	GHQ3050024R0001		0.45	1

ESPE/M

Electrical Mini Bolt Lock

The ESPE/M Mini Bolt Lock is used together with an intrusion alarm system to implement the inevitability condition. The motorized bolt lock additionally locks the door to the set area, preventing unintentional opening of the door when the intrusion alarm system is set. The ESPE/M Mini Bolt Lock is connected to the L240/BS Evaluation module for GM/A 8.1 KNX Security Panel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	ESPE/M	2CDG270010R0011		0.13	1

ESPE

Electromechanical Bolt Lock

Prevents access to the set area of an Intrusion Alarm Panel. The unit is mounted in the door frame. Only a single bore or the counterpart for the locking bolt in the door panel is required. Suitable for use with WEL and WELT. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	ESPE	GHV9250010V0001		0.55	1
Replacement Locking Bolt	–	EVSB	GHV9250010V0002		0.02	1
Mounting Kit for flat door panel and frame	–	AMSE	GHV9250010V0003		1.02	1
Mounting Kit for raised door panel and frame	–	AMSP	GHV9250010V0004		0.94	1

IR/KB

Passive IR Motion Detector, 15 m

For conventional wiring to zone inputs of an Intrusion Alarm Panel or a KNX Sercurity Terminal. With a volumetric lens for interior monitoring. Can be optionally set for hall monitoring function up to 15 m. Color: RAL 9010 pure white; for use up to VdS class B/EN Grade 2.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
VdS B/EN Grade 2	–	IR/KB	2CDG230027R0011		0.15	1

EIM/KB

Dualtech Motion Detector, 15 m

The dual detector is based on proven infrared technology and microwave detection. The detector enables a detection range of 15 m with 17 zones on 6 levels. The range of the infra-red component and the microwave can be adjusted separately using a jumper. Up to VdS class C/EN Grade 3; Color RAL 9010 pure white.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
VdS B/EN Grade 2	–	EIM/KB	2CDG230028R0011		0.15	1
VdS C/EN Grade 3	–	EIM/KC	2CDG230029R0011		0.15	1

EIM/D

Dual Ceiling Detector

Operates according to the proven detection principle of infra-red technology and microwave over 360°. The range of the infrared component can be adapted via the mounting height while the range of the microwave can be adjusted separately using a jumper. The detector is fitted with a walk test LED. Colour: RAL 9010 pure white.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	EIM/D	2CDG230039R0011		0.14	1

MW

Mounting Bracket for IR/x and EIM/x

For motion detectors.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	MW	GHV9230039V0020		0.019	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Security – Components

MRS/W

Magnet Reed Contact Set
For opening surveillance of windows and doors, complete for bolting or drilling. Contents: 1 magnet, 1 reed contact with 4.0 m connection cable LIYY 4 x 0.14 mm², 2 housings, 2 spacer plates, 2 flanges and 4 anti-magnetic fixing screws. VdS class B.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	MRS/W	GHQ3201972R0001		0.1	1
brown	–	MRS/B	GHQ3201972R0002		0.1	1
Saver Set (20 pcs.), white	–	VMRS/W	GHQ3201972R0011		1.99	1
Saver Set (20 pcs.), brown	–	VMRS/B	GHQ3201972R0012		1.99	1

RTK

Rolling Door Magnet Reed Contact Set
For monitoring opening or rolling doors or other large doors in the industrial field. Contents: 1 magnet, 1 reed contact with 2 m connection cable 4 x 0.14 mm², 1 m protective tubing and 1 set of mounting accessories. Degree of protection: IP 68; Environmental class to VdS 4; VdS class B.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	RTK	GHQ3201973R0021		0.43	1

SPGS/W

Glass Break Sensor
For opening surveillance of windows and doors, complete for bolting or drilling. VdS class B.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	SPGS/W	GHV9220004V0009		0.11	1
brown	–	SPGS/B	GHV9220004V0010		0.11	1
Loctite adhesive	–	LKS	GHQ4001906R0001		0.06	1
Mechanical Glass Break Test Device	–	GP2	GHV9220004V0004		0.1	1

WRK/W

Lock Bolt Switching Contact
For installation in the strike plate, for lock monitoring on doors. Water-tight IP 67, with 2.5 m connection cable LIYY 3 x 0.14 mm². VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	WRK/W	2CDG250003R0011		0.03	1

VSUE

Window Lock Monitoring Contact
Lock monitoring is carried out with a special magnet and a reed contact. The magnet is mounted on the push rod of the window sash while the reed contact is mounted on the frame. The connection cable LIYY 4 x 0.14 mm² is 4 m in length. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	VSUE	GHV9210018V0022		0.09	1

ND/W

Emergency Call Button, white
For manual alarm tripping. Complies with the police regulations since it features permanent trip recognition, momentary-contact function, with cover contact. Surface mount version. Colour: white. VdS class C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Surface mounting	–	ND/W	GHQ7132443R0011		0.15	1
Flush mounting	–	NDU/W	GHQ7132443R0021		0.15	1

NDA/W

Cover Plate for Emergency Call Button
Used primarily in the banking sector or other institutions, where unintentional alarm triggering is possible due to public access.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	NDA/W	GHQ7132443R0004		0.03	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Security – Components

SGL

Gas Detector
For measurement and evaluation of the concentration of natural gas or liquefied gas in the air. The detector requires a 10 – 30 V DC voltage supply and has a normally open relay output contact for connection to the intrusion alarm panels features an LED display and a Piezo buzzer. For ceiling and wall mounting.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SGL	GHQ3050008R0001		0.16	1

SWM 4

Water Detector for Zone Inputs
A resin-encapsulated water detector with gold-plated Termipoint pins, detects water ingress, e.g., pipe fractures, ingress of groundwater and sewage, water damage caused by washing machines and dishwashers etc. before the damage becomes too expensive.
For operation directly on detector circuits of intrusion alarm panels or security terminals.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SWM 4	GHQ4030001R0004		0.16	1

SWM 4/RN

Water Detector with Relay Output
Features a potential free changeover contact output, an LED parallel output and a LED display. The detector resets itself automatically when the affected area dries out. The device draws its power from an external 10 ... 23 V DC voltage source.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SWM4/RN	GHQ4030001R0012		0.23	1

FC650/O

Optical Smoke Detector

Optical smoke detector in threshold alarm technology that detects smoke according to the scattered-light principle The detectors feature an alarm indicator on the detector head that is visible from all angles, and which can be be triggered with a permanent magnet for test purposes. A detector base is provided for mounting and cable connection purposes into which the detector is simply screwed in via the bayonet connection. Each detector is equipped with an alarm LED, which displays the stored alarm in the event of an a alarm Detector/base diameter: 110 mm. VdS approved.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FC650/O	2CDG430079R0011		0.09	1

FC650/TMAX

Maximum Heat Detector

Static Heat Detector in threshold alarm technology, – trigger temperature 78 °C. The detectors feature an alarm indicator on the detector head that is visible from all angles, and which can be be triggered with a permanent magnet for test purposes. A detector base is provided for mounting and cable connection purposes into which the detector is simply screwed-in via the bayonet connection. Each detector is equipped with an alarm LED, which displays the stored alarm in the event of an a alarm. Detector/base diameter: 110 mm. VdS approved.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FC650/TMAX	2CDG430081R0011		0.09	1

FC600/BREL

Detector Base, 12 V

Enables system-independent connection of the FC650 series fire detector to systems or devices that are not specifically designed for this detector technology. Examples include Intrusion Alarm Panels, KNX Security Terminals, elevator controls or other signal processing equipment. The detector base must be supplied by either a 12 V or a 24 V DV voltage supply. A floating 30 V DC/1 A changeover contacting is provided for transferring an alarm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	FC600/BREL	2CDG430051R0011		0.08	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Security – Components

6833/01-84-500

Busch-Smoke Alarm® ProfessionalLine

For early detection of smouldering fires and open fires with smoke development indoors according to the photooptical measurement principle (Tyndall). With installed Lithium battery. Battery life min. 10 years. With test button and muting. Can be networked with up to 12 detectors using the radio module. Can be networked via 2-wire twisted pair cable with up to 12 detectors. Acoustic alarm: installed horn (85 dBA). Cyclic functional test. Including attachment material – VdS certified. Conform to EN 14604 studio white.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
not networkable	–	6833-84-500	2CKA006800A2720		0.154	1
networkable	–	6833/01-84-500	2CKA006800A2721		0.268	1

6835/01-84-500

Busch-Heat Alarm ProfessionalLine

Signal triggered at over 57 °C. With installed Lithium battery. Battery life min. 10 years. With test button and muting. Can be networked via 2-wire twisted pair cable with up to 12 detectors. Can be networked with up to 12 detectors using the radio module. Acoustic alarm: installed horn (85 dBA). Cyclic functional test. Including attachment material – VdS certified. Conform to EN 14604.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white	–	6835/01-84-500	2CKA006800A2723		0.268	1

6827-84

Busch-Smoke Alarm® Radio Module

For wireless networking of multiple Busch smoke alarms® / heat alarms.
With installed Lithium battery. Battery life min. 10 years. Radio frequency: 868 MHz.
Range: max. 100 m outdoors, max. 30 m indoors.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6828	2CKA006800A2514		0.268	1

6829-84

Busch-Smoke Alarm® Relay

For connecting external systems, e.g. KNX. Relay contact, floating changeover contact 230 V~ max. 5 A. Cable connection: up to 2 x 2 x 1.5 mm². With installed radio module. Rated voltage: 230 V~.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white	–	6829-84	2CKA006800A2515		0.268	1

6824-84

Busch-Smoke Alarm® Remote Control

For service purposes. With muting, test and search function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white	–	6824-84	2CKA006800A2516		0.268	1

SSS

Electronic Solid-State Siren

Electronic solid-state siren with intermittent tone for alarm purposes in indoor installations. External dimensions: ø x H = 90 x 37 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SSS	GHV9270001V0001		0.17	1

SSF/G

Outdoor Sirene

An aluminium protective housing with additional protective enamel coating. Protected against sabotage by a case tamper contact. The alarm inputs are wired onto a terminal strip. With fixing screw (M4) for potential equalization on the base.
Dimensions: H x W x D = 200 x 205 x 88 mm; Color: RAL 9002 Environmental class III to VdS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SSF/G	GHQ3050017R0001		1.64	1

SSF/GB

Combination Signalling Device

An aluminium protective housing with additional protective enamel coating. Protected against sabotage by a case tamper contact. The alarm inputs are wired onto a terminal strip. With fixing screw (M4) for potential equalization on the base.
Dimensions: H x W x D = 258 x 205 x 88 mm; Color: RAL 9002 Environmental class III to VdS.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SSF/GB	GHQ3050018R0001		1.81	1

Notes

ABB i-bus® KNX LED Dimmers
Constant and reliable dimming
of LEDs easier than ever

Nowadays dimming lights is a crucial functionality both in residential buildings and in commercial buildings. It enables you to perfectly adjust the light conditions to your needs: Realize a cozy atmosphere in the living room or ensure a constant light in the office. The new ABB i-bus® KNX LED Dimmers match perfectly to the needs of the market: They ensure constant dimming behavior, without having negative effects like flickering and glowing. **abb.com/knx**

Bright prospects for all

We bring energy to buildings and the people within them – whether these are modern single residential units, all kinds of hotels or ground-breaking industrial buildings. For us, power is more than just what comes from the wire. Why? Because it forms the basis of a comfortable life. As a result, we are constantly improving every little detail, looking for the most userfriendly solution and bringing people and technology together. That's what our large company is all about – we do everything to give you the freedom of choice.
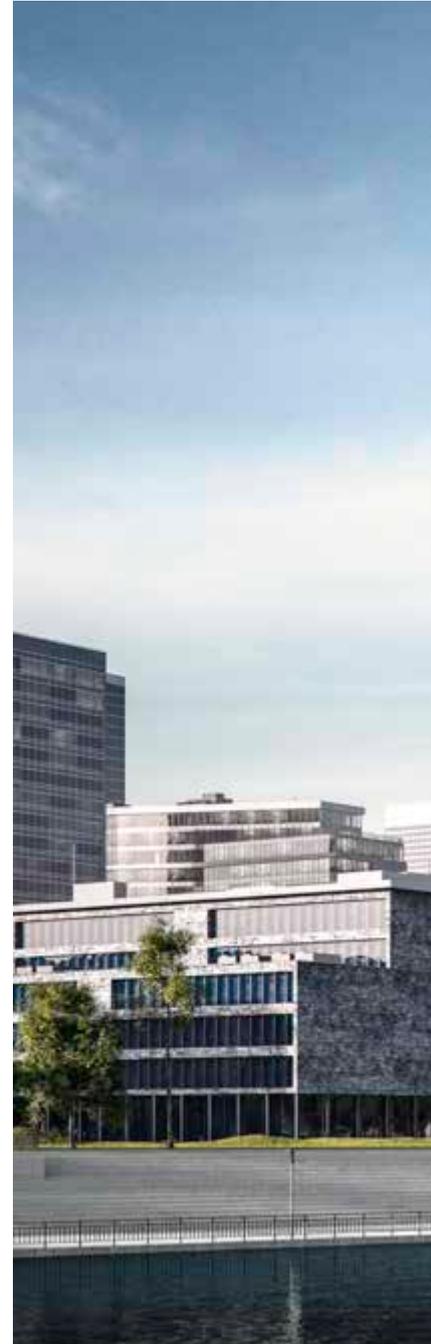
A vision for the perfect building
What's key is the synergy created in the building as a whole. It starts with the power that's created using renewable sources of energy, which then feeds into the things that this power can do for the people within – from the infrastructure in the buildings right through to the emotional experience of the occupants, from the lowest parking level right through to the most exquisite penthouse suite. Only when everything intertwines are values created, which you can experience with all your senses.

Building automation from ABB governed by our core values
All ABB solutions are checked against the six core values and constantly improved until they meet the very highest requirements in terms of technology, management and the guests.

Economic efficiency
A hotel building is for the people within. This is the only way to measure the value of what's inside. Every day, development gives rise to performance.

Safety
The building automation technology can't take a break. With a complete system, the management can count on it as a whole – and on the fact that everything is functioning safely.

Energy efficiency
You need energy for absolutely anything you wish to accomplish. That's why, for ABB, it is crucial to never waste energy and to make the most of it at the same time.

Durability
The future always comes quicker than you think. It must be easy to upgrade the technology. The new fits perfectly with what is already there.

Design
Hotels are more than just buildings. They shape the city and are sometimes a key part of the skyline. The aesthetics count – from the largest detail right down to the smallest.

Sustainability
A safe future starts today with technologies which combine all energy-saving capabilities with quality of life.

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – Guest Room Management

TLM/U.1.1-CG

Room Outdoor Sensor with Card Reader and Bus Coupler, FM　　　　　　　　　**NEW**
Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". For reading mifare RF cards. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBF6	TLM/U.1.1-CG	2CKA006300A1550		86x86	1
Black	F5XVPB7F	TLM/U.1.1-CG	2CKA006300A1550		86x86	1
Individual design [1]	Go to configurator	TLM/U.1.1-CG	2CKA006300A1550		86x86	1

TLM/U.3.1-CG

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBFT	TLM/U.3.1-CG	2CKA006300A1599		86x115	1
Black	F5XVPB7Y	TLM/U.3.1-CG	2CKA006300A1599		86x115	1
Individual design [1]	Go to configurator	TLM/U.3.1-CG	2CKA006300A1599		86x115	1

TLM/U.2.1-CG

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBF5	TLM/U.2.1-CG	2CKA006300A1587		115x86	1
Black	F5XVPB78	TLM/U.2.1-CG	2CKA006300A1587		115x86	1
Individual design [1]	Go to configurator	TLM/U.2.1-CG	2CKA006300A1587		115x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

TSM/U.2.1-CG

Room Outdoor Sensor with Card Reader, Room Number and Bus Coupler, FM   **NEW**

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". For reading mifare RF cards. With backlit room number. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	–	TSM/U.2.1-CG	2CKA006300A1555		86x157	1
Black	–	TSM/U.2.1-CG	2CKA006300A1555		86x157	1
Individual design [1]	Go to configurator	TSM/U.2.1-CG	2CKA006300A1555		86x157	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Guest Room Management

TR/U 1.1

Transponder Reader MIFARE
The "transponder reader" is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus.
It is equipped with one relay (4 A @24 V AC/DC) and one input to be used for connecting external conventional card-holder (e.g. Millenium wiring accessories card-holder).
The output can be programmed in three different ways: "Linked to access control", receiving in this case switching commands from the device itself (according to transponder card validation); being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices; "linked to card-holder", that means that the relay is switched according to closing/opening internal input contact available on transponder reader.
The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX telegram (for example for DND/MUR purposes).
The transponder reader requires a 12…24 V AC/DC external power supply to ensure its operation even with bus voltage failure.
The transponder reader is available for ABB Millenium wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TR/U 1.1	2CSY235683R2001		0.050	1

TH/U 1.1

Transponder Holder MIFARE
The "transponder holder" is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus.
It is equipped with one relay (4 A @24 V AC/DC) and one binary input to be used for connecting external conventional push-button for switch, dimmer and shutter functionalities, or for example for connecting window contact or similar.
The output can be programmed as "Linked to access control", receiving in this case switching commands from the device itself (according to card insertion/removal); or being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX.
The transponder reader requires a 12…24 V AC/DC external power supply to ensure its operation even with bus voltage failure.
The transponder reader is available for ABB Millenium wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TH/U 1.1	2CSY265232R2021		0.018	1

TS/T 1

Set of 10 Transponder Cards, MIFARE

The transponder card uses passive transponder technology operating in radio frequency (MIFARE technology), without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm (can be reduced according to installation environment).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TS/T 1	2CSY259412R2041		0.018	1

LT/U 1.1.MC
LT/U 1.1.MS

Transponder Reader, Mylos

The transponder reader is used for access control in the hotel, residential and commercial sectors (office buildings, business centers, laboratories, etc.). The device is equipped with two bistable relays (8 A, 250 V AC), one of which can be assigned to control electronic lock, and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder reader requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	LT/U 1.1.MC	2CSYK5000C		0.05	1
black	–	LT/U 1.1.MS	2CSYK5000S		0.05	1

PTI/U 1.1.MC

Transponder Holder, Mylos

The transponder holder is equipped with a slot into which the transponder card is inserted. In a hotel application, this allows occupancy recognition and notification at the supervisory level (e.g. on the front desk computer).
Moreover, room status information can be managed by using special cards (minibar status, maintenance status, usability).
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder pocket requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PTI/U 1.1.MC	2CSYK5200C		0.05	1
black	–	PTI/U 1.1.MS	2CSYK5200S		0.05	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – Guest Room Management

PRT/U 1.1.MC

Transponder Programming Device, Mylos
The devices allows the programming of transponder cards.
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free non-optically insulated inputs; 5 V DC scanning voltage is available on the COM terminal.
The transponder programmer requires a 10…32 V DC/12…24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PRT/U 1.1.MC	2CSYK5300C		0.05	1
black	–	PRT/U 1.1.MS	2CSYK5300S		0.05	1

CH/T 2

Set of 5 Transponder Cards for Chiara and Mylos design programs
The transponder card uses passive transponder technology operating in radio frequency, without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	CH/T 2	2CSKK5400C		0.005	1

LT/U 1.1.CH

Transponder Reader, Chiara   **NEW**
The transponder reader is used for access control in the hotel, residential and commercial sectors (office buildings, business centers, laboratories, etc.). The device is equipped with two bistable relays (8 A, 250 V AC), one of which can be assigned to control electronic lock, and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder reader requires a 10…32 V DC/12…24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	LT/U 1.1.CH	2CSKK5000C		0.05	1

PTI/U 1.1.CH

Transponder Holder, Chiara   NEW

The transponder holder is equipped with a slot into which the transponder card is inserted.
In a hotel application, this allows occupancy recognition and notification at the supervisory
level (e.g. on the front desk computer).
Moreover, room status information can be managed by using special cards (minibar status,
maintenance status, usability).
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free, non-optically
insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder pocket requires a 10...32 V DC/12...24 V AC external power supply to ensure
its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PTI/U 1.1.CH	2CSKK5200C		0.05	1

PRT/U 1.1.CH

Transponder Programming Device, Chiara   NEW

The devices allows the programming of transponder cards.
The device is equipped with 2 bistable relays (8 A, 250 V AC) and 3 voltage-free non-optically
insulated inputs; 5 V DC scanning voltage is available on the COM terminal.
The transponder programmer requires a 10...32 V DC/12...24 V AC external power supply to
ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PRT/U 1.1.CH	2CSKK5300C		0.05	1

SW MiniMAC 4.1

MiniMAC software

The management and configuration software ensures bidirectional communication with the
access control system devices, allowing the system's configuration during its installation
and its overall management and supervision.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	SW MiniMAC 4.1	2CSY258202R2051		0.005	1

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Unique diversity of the range

01

02

03
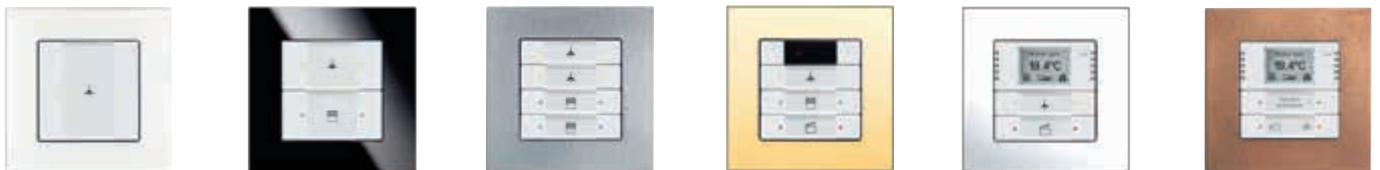
04

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11

01	Tacteo
02	ClimaECO
03	carat®
04	pure stainless steel
05	Busch-axcent®
06	future® linear
07	Millenium*

08	Zenit for VDE/NEMA markets
09	Busch-triton®
10	Busch-priOn®
11	Bus Coupling Unit –
	for conventional Busch-Jaeger series**

Further information regarding the ABB switch ranges are available on http://new.abb.com/ low-voltage/products/residential-products/ switch-ranges

* Millenium and Zenit series are only available in selected markets.

** Busch-Jaeger switch ranges only available for selected markets. For further information please contact your local ABB office.

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Functional Overview

Program	Busch-priOn® suitable for KNX bus coupler 6120/12-101 or 6120/13 (depending on the specific combination)		
	6340-xx-101 1/2gang	6341-xx-101 rotary control element	6342-xx-101 3/6gang
KNX function			
Switching, rocker switch total	■	–	■
Switching, rocker switch left/right	■	■	■
Dimming, rocker switch total	■	–	■
Dimming, rocker switch left/right	■	–	■
Blind, rocker switch total	■	–	■
Blind, rocker switch total left/right	■	■	■
Short-long operation, rocker switch left/right	■	–	■
Value sender, rocker switch total	■	–	■
Value sender, rocker switch left/right	■	–	■
Value dimming sensor, rocker switch total	■	■	■
Red/green LED status illumination (red/green/off)	–	–	–
RGB LED function illumination + status illumination	1 LED per rocker switch	1 LED per button	1 LED per rocker switch
Setting the RTC operating mode	■	–	■
Value sender, 2 objects, rocker switch left/right	■	–	■
Light scene extension unit with light scene memory function	■	–	■
Level switch, rocker switch total	■	–	■
Level switch, rocker switch total left/right	■	–	■
Multiple operation, rocker switch left/right	■	–	■
IR remote control channels (up to 13 channels)	–	–	–
Light scene unit (8 scenes for up to 8 actuators)	–	–	–
Light scene unit (10 scenes for up to 10 actuators)	–	–	–
Programmable shift key	–	–	–
Proximity function	–	–	–
Room temperature controller only			
Temperature reading	–	–	–
RTC settings	–	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	–	–	–
Media box/CD/DVD/radio	–	–	–
Short-time timer	–	–	–
Weekly timer	–	–	–
Alarm clock	–	–	–
Messages	–	–	–
Screen saver	–	–	–
Display text/value	–	–	–
Device lock	–	–	–
Logic function (including light scenes)	■	■	■
Busch-Watchdog 4 channels	–	–	–

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■ = Function is supported

– = Function is not supported

Program	Busch-priOn® suitable for KNX bus coupler 6120/12-101 or 6120/13 (depending on the specific combination)		
	6344-xx-101 8.89 cm (3.5") TFT colour display with rotary control element	6344-xx-101	6351-825-101 end strip top with information display, room temperature controller, IR receiver and proximity sensor + 6342-xx-101 3/6gang
KNX function			
Switching, rocker switch total	–	–	■
Switching, rocker switch left/right	■	–	■
Dimming, rocker switch total	–	–	■
Dimming, rocker switch left/right	■	–	■
Blind, rocker switch total	–	–	■
Blind, rocker switch total left/right	■	–	■
Short-long operation, rocker switch left/right	–	–	■
Value sender, rocker switch total	–	–	■
Value sender, rocker switch left/right	■	–	■
Value dimming sensor, rocker switch total	■	–	■
Red/green LED status illumination (red/green/off)	–	–	–
RGB LED function illumination + status illumination	–	–	1 LED per rocker switch
Setting the RTC operating mode	■	–	■
Value sender, 2 objects, rocker switch left/right	–	–	■
Light scene extension unit with light scene memory function	■	–	■
Level switch, rocker switch total	■	–	■
Level switch, rocker switch total left/right	–	–	■
Multiple operation, rocker switch left/right	–	–	■
IR remote control channels (up to 13 channels)	–	–	■
Light scene unit (8 scenes for up to 8 actuators)	–	–	–
Light scene unit (10 scenes for up to 10 actuators)	■	–	–
Programmable shift key	–	–	–
Proximity function	–	–	■
Room temperature controller only			
Temperature reading	–	–	–
RTC settings	■	–	■
Illuminated display	■	–	■
Fan coil operation for heating and cooling	■	–	■
Media box/CD/DVD/radio	■	–	–
Short-time timer	■	–	–
Weekly timer	■	–	–
Alarm clock	■	–	–
Messages	■	–	–
Screen saver	■	–	–
Display text/value	■	–	■
Device lock	■	–	–
Logic function (including light scenes)	■	■	■
Busch-Watchdog 4 channels	–	■	–

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■ = Function is supported

– = Function is not supported

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Functional Overview

Program	Busch-priOn® suitable for KNX bus coupler 6120/12-101 or 6120/13 (depending on the specific combination)	
	6350-825-101 end strip top with IR receiver and proximity sensor	6352-xx-101 end strip bottom with temperature sensor
KNX function		
Switching, rocker switch total	–	–
Switching, rocker switch left/right	–	–
Dimming, rocker switch total	–	–
Dimming, rocker switch left/right	–	–
Blind, rocker switch total	–	–
Blind, rocker switch total left/right	–	–
Short-long operation, rocker switch left/right	–	–
Value sender, rocker switch total	–	–
Value sender, rocker switch left/right	–	–
Value dimming sensor, rocker switch total	–	–
Red/green LED status illumination (red/green/off)	–	–
RGB LED function illumination + status illumination	–	–
Setting the RTC operating mode	–	–
Value sender, 2 objects, rocker switch left/right	–	–
Light scene extension unit with light scene memory function	–	–
Level switch, rocker switch total	–	–
Level switch, rocker switch total left/right	–	–
Multiple operation, rocker switch left/right	–	–
IR remote control channels (up to 13 channels)	■	–
Light scene unit (8 scenes for up to 8 actuators)	–	–
Light scene unit (10 scenes for up to 10 actuators)	–	–
Programmable shift key	–	–
Proximity function	■	–
Room temperature controller only		
Temperature reading	–	■
RTC settings	–	–
Illuminated display	–	–
Fan coil operation for heating and cooling	–	–
Media box/CD/DVD/radio	–	–
Short-time timer	–	–
Weekly timer	–	–
Alarm clock	–	–
Messages	–	–
Screen saver	–	–
Display text/value	–	–
Device lock	–	–
Logic function (including light scenes)	–	–
Busch-Watchdog 4 channels	–	–

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■ = Function is supported

– = Function is not supported

Program	Busch-triton® (next generation) Monoblock	
	6320/10 1/2gang 6320/30 3/6gang 6320/50 5/10gang	6321/38 3/6gang with RTC 6321/58 5/10gang with RTC
KNX function		
Switching, rocker switch total	■	■
Switching, rocker switch left/right	■	■
Dimming, rocker switch total	■	■
Dimming, rocker switch left/right	■	■
Blind, rocker switch total	■	■
Blind, rocker switch total left/right	■	■
Short-long operation, rocker switch left/right	■	■
Value sender, rocker switch total	■	■
Value sender, rocker switch left/right	■	■
Value dimming sensor, rocker switch total	■	■
Red/green LED status illumination (red/green/off)	1 LED per rocker switch	1 LED per rocker switch
RGB LED function illumination + status illumination	–	–
Setting the RTC operating mode	■	■
Value sender, 2 objects, rocker switch left/right	■	■
Light scene extension unit with light scene memory function	■	■
Level switch, rocker switch total	■	■
Level switch, rocker switch total left/right	■	■
Multiple operation, rocker switch left/right	–	–
IR remote control channels (up to 13 channels)	■	■
Light scene unit (8 scenes for up to 8 actuators)	■	■
Light scene unit (10 scenes for up to 10 actuators)	–	–
Programmable shift key	■	■
Proximity function	–	–
Room temperature controller only		
Temperature reading	–	■
RTC settings	–	■
Illuminated display	–	■
Fan coil operation for heating and cooling	–	■
Media box/CD/DVD/radio	–	–
Short-time timer	–	–
Weekly timer	–	–
Alarm clock	–	–
Messages	–	–
Screen saver	–	–
Display text/value	–	–
Device lock	–	–
Logic function (including light scenes)	–	–
Busch-Watchdog 4 channels	–	–

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■ = Function is supported

– = Function is not supported

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Functional Overview

Program	Millenium		
	6125/20-500 1/2gang	6126/20-500 2/4gang	6129/20-500 3/6gang
KNX function			
Switching, button pair	■	■	■
Switching, button upper/lower	■	■	■
Dimming, button pair	■	■	■
Dimming, button upper/lower	■	■	■
Blind, button pair	■	■	■
Blind, button upper/lower	■	■	■
Short-long operation, button upper/lower	■	■	■
Value transmitter, button pair	■	■	■
Value transmitter, button upper/lower	■	■	■
Value dimming sensor, button pair	■	■	■
Value dimming sensor, upper/lower	■	■	■
RGB LED function illumination + status illumination	■	■	■
Setting the RTC operating mode	■	■	■
Value transmitter, 2 objects, button upper/lower	■	■	■
Light scene extension unit with light scene memory function	■	■	■
Step switch, button pair	■	■	■
Step switch, button upper/lower	■	■	■
Multiple operation, button upper/lower	■	■	■
IR remote control channels (up to 5 channels)	–	–	–
Room temperature controller only			
Temperature reading	–	–	–
RTC settings	–	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	–	–	–
10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.)	■	■	■
Busch-Watchdog 4 channels	–	–	–

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■ = Function is supported

– = Function is not supported

Program	Millenium		
	6129/21-500 3/6gang with IR	6122/20-500	6124/20-500
KNX function			
Switching, button pair	■	–	–
Switching, button upper/lower	■	–	–
Dimming, button pair	■	–	–
Dimming, button upper/lower	■	–	–
Blind, button pair	■	–	–
Blind, button upper/lower	■	–	–
Short-long operation, button upper/lower	■	–	–
Value transmitter, button pair	■	–	–
Value transmitter, button upper/lower	■	–	–
Value dimming sensor, button pair	■	–	–
Value dimming sensor, upper/lower	■	–	–
RGB LED function illumination + status illumination	■	–	–
Setting the RTC operating mode	■	–	–
Value transmitter, 2 objects, button upper/lower	■	–	–
Light scene extension unit with light scene memory function	■	–	–
Step switch, button pair	■	–	–
Step switch, button upper/lower	■	–	–
Multiple operation, button upper/lower	■	–	–
IR remote control channels (up to 5 channels)	■	–	–
Room temperature controller only			
Temperature reading	–	–	■
RTC settings	–	–	■
Illuminated display	–	–	■
Fan coil operation for heating and cooling	–	–	■
10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.)	■	–	■
Busch-Watchdog 4 channels	–	■	–

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■ = Function is supported

– = Function is not supported

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Functional Overview

Program	Zenit		
	6125/98-509 1/2gang	6126/98-509 2/4gang	6129/98-509 3/6gang
KNX function			
Switching, button pair	■	■	■
Switching, button upper/lower	■	■	■
Dimming, button pair	■	■	■
Dimming, button upper/lower	■	■	■
Blind, button pair	■	■	■
Blind, button upper/lower	■	■	■
Short-long operation, button upper/lower	■	■	■
Value transmitter, button pair	■	■	■
Value transmitter, button upper/lower	■	■	■
Value dimming sensor, button pair	■	■	■
Value dimming sensor, upper/lower	■	■	■
RGB LED function illumination + status illumination	■	■	■
Setting the RTC operating mode	■	■	■
Value transmitter, 2 objects, button upper/lower	■	■	■
Light scene extension unit with light scene memory function	■	■	■
Step switch, button pair	■	■	■
Step switch, button upper/lower	■	■	■
Multiple operation, button upper/lower	■	■	■
IR remote control channels (up to 5 channels)	–	–	–
Room temperature controller only			
Temperature reading	–	–	–
RTC settings	–	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	–	–	–
10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.)	■	■	■
Busch-Watchdog 4 channels	–	–	–

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■ = Function is supported

– = Function is not supported

Program	Zenit		
	6129/98-509 3/6gang with IR	6122/98-509	6124/98-509
KNX function			
Switching, button pair	■	–	–
Switching, button upper/lower	■	–	–
Dimming, button pair	■	–	–
Dimming, button upper/lower	■	–	–
Blind, button pair	■	–	–
Blind, button upper/lower	■	–	–
Short-long operation, button upper/lower	■	–	–
Value transmitter, button pair	■	–	–
Value transmitter, button upper/lower	■	–	–
Value dimming sensor, button pair	■	–	–
Value dimming sensor, upper/lower	■	–	–
RGB LED function illumination + status illumination	■	–	–
Setting the RTC operating mode	■	–	–
Value transmitter, 2 objects, button upper/lower	■	–	–
Light scene extension unit with light scene memory function	■	–	–
Step switch, button pair	■	–	–
Step switch, button upper/lower	■	–	–
Multiple operation, button upper/lower	■	–	–
IR remote control channels (up to 5 channels)	■	–	–
Room temperature controller only			
Temperature reading	–	–	■
RTC settings	–	–	■
Illuminated display	–	–	■
Fan coil operation for heating and cooling	–	–	■
10 logic channels (incl. light scene, actuator, sequence actuator, logic gates, etc.)	■	–	■
Busch-Watchdog 4 channels	–	■	–

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■ = Function is supported

– = Function is not supported

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Functional Overview

Program	Multifunction control elements, suitable for KNX bus coupler 6120/12-101 and 6120/13			
	6125/02 1/2gang 6126/02 2/4gang 6127/02 4/8gang	6129/01 3/6gang with IR	6128/28 2/4gang with RTC	6122/01 standard
KNX function				
Switching, rocker switch total	■	■	■	–
Switching, rocker switch left/right	■	■	■	–
Dimming, rocker switch total	■	■	■	–
Dimming, rocker switch left/right	■	■	■	–
Blind, rocker switch total	■	■	■	–
Venetian blind, rocker switch total left/right	■	■	■	–
Short-long operation, rocker switch left/right	■	■	■	–
Value sender, rocker switch total	■	■	■	–
Value sender, rocker switch left/right	■	■	■	–
Value dimming sensor, rocker switch total	■	■	■	–
Red/green LED status illumination (red/green/off)	–	–	–	–
RGB LED function illumination + status illumination	Two LEDs per rocker switch	Two LEDs per rocker switch	Two LEDs per rocker switch	–
Setting the RTC operating mode	■	■	■	–
Value sender, 2 objects, rocker switch left/right	■	■	■	–
Light scene extension unit with light scene memory function	■	■	■	–
Level switch, rocker switch total	■	■	■	–
Level switch, rocker switch total left/right	■	■	■	–
Multiple operation, rocker switch left/right	■	■	■	–
IR remote control channels (up to 5 channels)	–	■	–	–
Room temperature controller only				
Temperature reading	–	–	■	–
RTC settings	–	–	■	–
Illuminated display	–	–	■	–
Fan coil operation for heating and cooling	–	–	■	–
Logic function (including light scenes)	■	■	■	■
Busch-Watchdog 4 channels	–	–	–	■
ABB				
basic55®	–	–	–	–
future® linear	■	■	■	■
alpha exclusive/nea	–	–	–	–
Busch-axcent®	■	■	■	■
solo®	■	■	■	■
pure stainless steel	■	■	■	■
carat®	■	■	■	■
ocean®	–	–	–	–
All Weather 44	–	–	–	–

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■ = Function is supported

– = Function is not supported

Program	FM Watchdog with integrated bus coupler	Standard control elements, bus coupler included with package	FM push-button coupling unit with integrated bus coupler	
	6122/10 6122/10-BS-500	6125/01 1gang 6126/01 2gang 6127/01 4gang	6108/06 6108/06-BS 1/2gang	6108/07 6108/07-BS 2/4gang
KNX function				
Switching, rocker switch total	–	■	■	■
Switching, rocker switch left/right	–	–	■	■
Dimming, rocker switch total	–	■	■	■
Dimming, rocker switch left/right	–	–	■	■
Blind, rocker switch total	–	■	■	■
Venetian blind, rocker switch total left/right	–	–	■	■
Short-long operation, rocker switch left/right	–	–	■	■
Value sender, rocker switch total	–	■	■	■
Value sender, rocker switch left/right	–	–	■	■
Value dimming sensor, rocker switch total	–	–	■	■
Red/green LED status illumination (red/green/off)	–	Two LEDs per rocker switch	–	–
RGB LED function illumination + status illumination	–	–	One LED per rocker switch	One LED per rocker switch
Setting the RTC operating mode	–	–	■	■
Value sender, 2 objects, rocker switch left/right	–	■	■	■
Light scene extension unit with light scene memory function	–	■	■	■
Level switch, rocker switch total	–	–	■	■
Level switch, rocker switch total left/right	–	–	■	■
Multiple operation, rocker switch left/right	–	–	–	–
IR remote control channels (up to 5 channels)	–	–	–	–
Room temperature controller only				
Temperature reading	–	–	■	■
RTC settings	–	–	–	–
Illuminated display	–	–	–	–
Fan coil operation for heating and cooling	–	–	–	–
Logic function (including light scenes)	■	–	–	–
Busch-Watchdog 4 channels	■	–	–	–
ABB				
basic55®	–	–	■	■
future® linear	■	■	■	■
alpha exclusive/nea	–	–	–	–
Busch-axcent®	■	■	■	■
solo®	■	■	■	■
pure stainless steel	■	■	■	■
carat®	■	■	■	■
ocean®	–	–	–	–
All Weather 44	–	–	–	–

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■ = Function is supported

– = Function is not supported

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Functional Overview

Program	FM push-button coupling unit with integrated bus coupler		
	6108/60 6-fold KNX sensor	6108/06-AP 1/2gang	6108/07-AP 2/4gang
KNX function			
Switching, rocker switch total	■	■	■
Switching, rocker switch left/right	–	■	■
Dimming, rocker switch total	■	■	■
Dimming, rocker switch left/right	–	■	■
Blind, rocker switch total	■	■	■
Venetian blind, rocker switch total left/right	–	■	■
Short-long operation, rocker switch left/right	–	■	■
Value sender, rocker switch total	■	■	■
Value sender, rocker switch left/right	–	■	■
Value dimming sensor, rocker switch total	■	■	■
Red/green LED status illumination (red/green/off)		1 LED	–
RGB LED function illumination + status illumination	–	–	–
Setting the RTC operating mode	–	■	■
Value sender, 2 objects, rocker switch left/right	–	■	■
Light scene extension unit with light scene memory function	■	■	■
Level switch, rocker switch total	■	■	■
Level switch, rocker switch total left/right	–	■	■
Multiple operation, rocker switch left/right	–	–	–
IR remote control channels (up to 5 channels)	–	–	–
Room temperature controller only			
Temperature reading	■	–	–
RTC settings	■ (only as slave)	–	–
Illuminated display	–	–	–
Fan coil operation for heating and cooling	■ (only as slave)	–	–
Logic function (including light scenes)	–	–	–
Busch-Watchdog 4 channels	–	–	–
ABB			
basic55®	■	■	■
future® linear	■	■	■
alpha exclusive/nea	■	■	■
Busch-axcent®	■	■	■
solo®	■	■	■
pure stainless steel	■	■	■
carat®	■	■	■
ocean®	–	■	■
All Weather 44	–	■	■

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■ = Function is supported

– = Function is not supported

Program	FM room temperature controller				
	6108/18 6108/18-BS	6109/18	6109/28	6109/08	6109/05
Control element					
Standard function	–	–	–	–	–
Additional function	–	–	–	–	–
Indication					
Display	■	■	■	–	–
Actual temperature display	■	■	■	–	–
Status display via text and/or ICON	–	■	■	–	–
RTC					
Manual operation	■	■	■	–	–
Heating and/or cooling with/without additional stage	■	■	■	■	■
Fan coil	■	■	■	■	■
Master/slave	■	■	■	master only	master only
Basic load	■	■	■	■	■
Internal and/or external actual temperature sensor	■	■	■	■	external only
Internal actual temperature sensor	■	■	■	■	■
Air quality					
CO_2	–	–	■	–	–
Humidity	–	–	■	–	–
Air pressure	–	–	■	–	–
Universal input/binary input					
Switching/alarm	–	■	■	■	■
Dimming	–	■	■	■	■
Blind	–	■	■	■	■
Value	–	■	■	■	■
Scene	–	■	■	■	■
Switching sequences	–	■	■	■	■
Multi	–	■	■	■	■
Pulse counter	–	■	■	■	■
Universal analogue input e.g. external sensors					
0–10 V (external)	–	■	■	■	■
1–10 V (external)	–	■	■	■	■
Upper/lower threshold value	–	■	■	■	■
Universal input of external temperature sensor (PT1000 or 6226/T)					
Actual temperature sensor	–	■	■	■	■
Temperature limiter	–	■	■	■	■
ABB					
basic55®	■	■	■	■	–
future® linear	■	■	■	■	–
alpha exclusive/nea	–	■	■	■	–
Busch-axcent®	■	■	■	■	–
solo®	■	■	■	■	–
pure stainless steel	■	■	■	■	–
carat®	■	■	■	■	–
ocean®	–	–	–	–	–
All Weather 44	–	–	–	–	–

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■ = Function is supported

– = Function is not supported

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Functional Overview

Program		ABB-tacteo				
Square	(86 mm x 86 mm)	TB/U1.1.1-CG	TB/U2.4.1-CG	TB/U4.4.1-CG	TB/U6.4.1-CG	TR/U.1.1-CG
Horizontal	(115 mm x 86 mm)	TB/U1.2.1-CG	TB/U2.8.1-CG	TB/U4.7.1-CG	TB/U6.7.1-CG	TR/U.2.1-CG
Vertical	(86 mm x 115 mm)	TB/U1.3.1-CG	TB/U2.7.1-CG	TB/U4.8.1-CG	TB/U6.8.1-CG	TR/U.3.1-CG
Control element						
Standard function		■	■	■	■	■
Additional function		■	■	■	■	■
Indication						
Display		–	–	–	–	■
Actual temperature display		–	–	–	–	■
Status display via text and/or ICON		–	–	–	–	■
RTC						
Manual operation		–	–	–	–	■
Heating and/or cooling with/ without additional stage		–	–	–	–	■
Fan coil		–	–	–	–	■
Master/slave		–	–	–	–	■
Basic load		–	–	–	–	■
Internal and/or external actual temperature sensor		–	–	–	–	■
Internal actual temperature sensor		■	■	■	■	■
Installation						
VDE		■	■	■	■	■
BS		■	■	■	■	■
IT	(only as 115 mm x 86 mm)	■	■	■	■	■
NEMA	(only as 86 mm x 115 mm)	■	■	■	■	■

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■ = Function is supported

– = Function is not supported

Program		ABB-tacteo				
Square	(86 mm x 86 mm)	TBW/U.1.1-CG	TA/U3.1.1-CG	TLM/U.1.1-CG	TKK/U.1.1-CG	TKM/U.1.1-CG
Horizontal	(115 mm x 86 mm)	TBW/U.2.1-CG	TA/U3.2.1-CG	TLM/U.2.1-CG	TKK/U.3.1-CG	TKM/U.3.1-CG
Vertical	(86 mm x 115 mm)	TBW/U.3.1-CG	TA/U3.3.1-CG	TLM/U.3.1-CG		
Control element						
Standard function		■	■	■	■	■
Additional function		■	–	–	–	–
Indication						
Display		–	–	–	–	–
Actual temperature display		–	–	–	–	–
Status display via text and/or ICON		–	–	–	–	–
RTC						
Manual operation		–	–	–	–	–
Heating and/or cooling with/ without additional stage		–	–	–	–	–
Fan coil		–	–	–	–	–
Master/slave		–	–	–	–	–
Basic load		–	–	–	–	–
Internal and/or external actual temperature sensor		–	–	–	–	–
Internal actual temperature sensor		■	■	■	■	■
Installation						
VDE		■	■	■	■	■
BS		■	■	■	■	■
IT	(only as 115 mm x 86 mm)	■	■	■	■	■
NEMA	(only as 86 mm x 115 mm)	■	■	■	■	■

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■ = Function is supported

– = Function is not supported

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Functional Overview

Program		ABB-tacteo			
Vertical	(86 mm x 157 mm)	TB/U12.7.1-CG	TBR/U4.7.1-CG	TSN/U.2.1-CG	TSM/U.2.1-CG
Horizontal	(157 mm x 86 mm)	TB/U12.8.1-CG	TBR/U4.8.1-CG		
Control element					
Standard function		■	■	■	■
Additional function		■	■	–	–
Indication					
Display		–	■	–	–
Actual temperature display		–	■	–	–
Status display via text and/or ICON		–	■	–	–
RTC					
Manual operation		–	■	–	–
Heating and/or cooling with/ without additional stage		–	■	–	–
Fan coil		–	■	–	–
Master/slave		–	■	–	–
Basic load		–	■	–	–
Internal and/or external actual temperature sensor		–	■	–	–
Internal actual temperature sensor		■	■	■	■
Installation					
VDE		■	■	■	■
BS		■	■	■	■
IT	(only as 157 mm x 86 mm)	–	–	■	■
NEMA	(only as 86 mm x 157 mm)	■	■	■	■

Program	ClimaECO			
	Control Elements	Operating function with RTC extension unit	Room temp. controller with oper. Function	RTC w. CO₂/ humidety sens. a. oper. Function
	SB/U8.0.1-84 SB/U12.0.1-84	SBS/U6.0.1-84 SBS/U10.0.1-84	SBR/U6.0.1-84 SBR/U10.0.1-84	SBC/U6.0.1-84 SBC/U10.0.1-84
KNX function Switching, rocker switch total	■	■	■	■
Switching, rocker switch left/right	■	■	■	■
Dimming, rocker switch total	■	■	■	■
Dimming, rocker switch left/right	■	■	■	■
Blind switch rocker tota	■	■	■	■
Blind switch rocker total left/right	■	■	■	■
Short-long operation, switch rocker left/right	■	■	■	■
Value sender rocker switch total	■	■	■	■
Value sender switch rocker left/right	■	■	■	■
Value dimming sensor, switch rocker total	■	■	■	■
Red/green LED status illumination (red/green/off) 1 LED per switch rocker 1 LED per switch rocker	■	■	■	■
RGB LED function illumination + status illumination	■	■	■	■
1 LED per switch rocker	■	■	■	■
Setting the RTC operating mode	■	■	■	■
Value sender, 2 objects, rocker switch left/right	■	■	■	■
Light scene extension unit with light scene memory function	■	■	■	■
Level switch, switch rocker total	■	■	■	■
Level switch, switch rocker total left/right	■	■	■	■
Multiple operation, rocker switch left/right	■	■	■	■
IR remote control channels (up to 13 channels)	■	■	■	■
Light scene unit (8 scenes for up to 8 actuators)	■	■	■	■
Light scene unit (10 scenes for up to 10 actuators)	■	■	■	■
Internal RTC function rocker total		■	■	■
Internal RTC function left/right		■	■	■
Programmable shift key				
Proximity function				
Room temperature controller			■	■
Temperature sensor	■	■	■	■
Master/Slave configuration			■	■
Slave configuration		■		
RTC settings			■	■
Base-load operation			■	■
Illuminated display		■	■	■
Fan Coil operation for heating and cooling		■	■	■
CO₂-Mesurement				■
Humidety-Mesurement				■
Drewpoint-management				■
Temperature				■
Device lock	■	■	■	■
Logic function (including light scenes)	■	■	■	■
Busch-Watchdog 4 channels				

A smart sensor for everything
Advantages for you at a glance

—

The extra-flat KNX sensor fits
into any environment

Flat and theft-proof
The frameless and extra-flat KNX sensor with a
diameter of 9.5 mm sits almost flush with the wall
and blends harmoniously into any wall design.
Peace of mind is provided by the optional removal
guard, which protects the KNX sensor from theft.
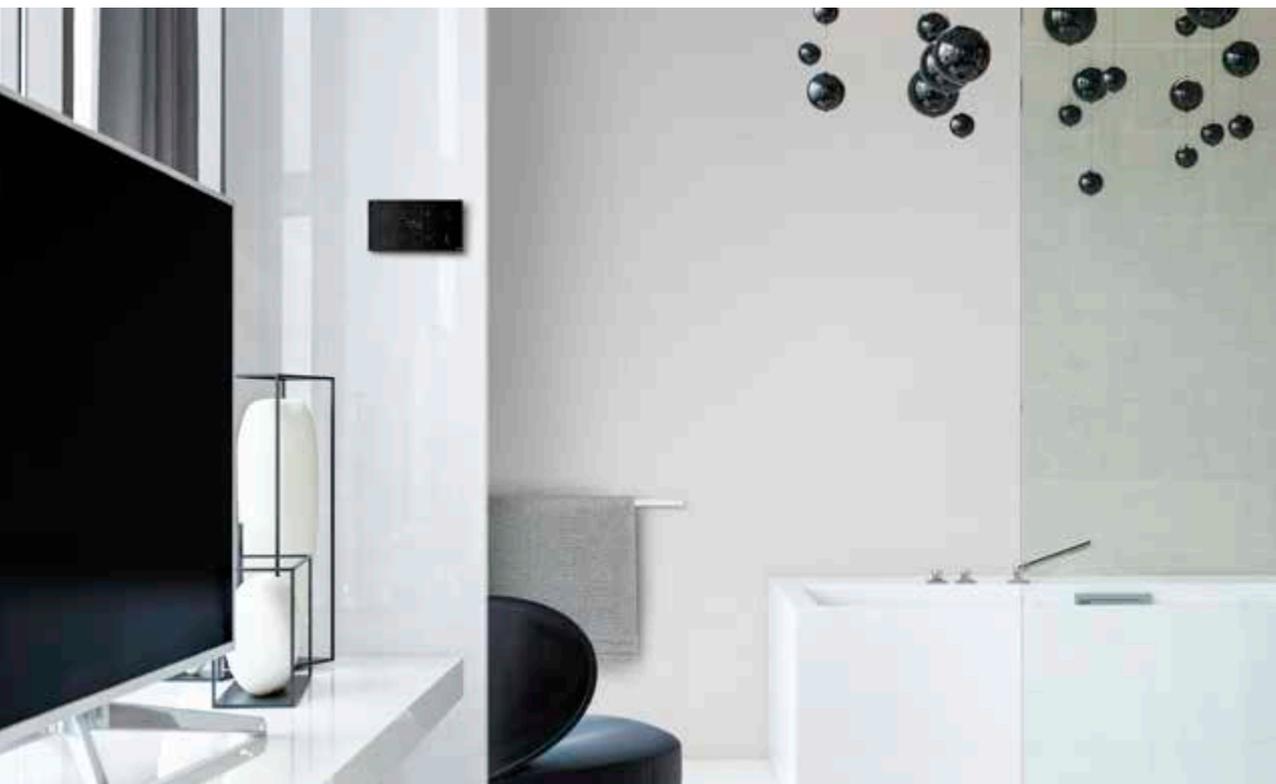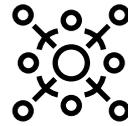
Secure access control
for the hospitality industry

Hotel access control
The ABB-tacteo KNX range offers secure access control for the hospitality industry. It is particularly practical that the sensor performs all of a hotel's management tasks, which can be controlled from a central point such as the reception desk.

The capacitive glass sensors
react without contact

Intuitive operation
The capacitive KNX glass sensors react without any touch or contact. When moving your hand towards the sensor, the status lighting switches on automatically. On the other hand, touching the sensor with the entire palm of your hand triggers a preprogrammed function – such as "switching on the light". With a tap of the finger the desired function can be activated. Easy operation is also ensured by the tried-and-tested colour control concept.

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – ABB-tacteo

Touch Control Element with Bus Coupler, FM   **NEW**
Freely configurable multifunction control element. The icons and/or texts are configured by means of a web configuration tool. With integrated KNX bus coupler. With integrated temperature sensor. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.

TB/U1.1.1-CG

1-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7C	TB/U1.1.1-CG	2CKA006300A1538		86x86	1
Black	F5XVPBZQ	TB/U1.1.1-CG	2CKA006300A1538		86x86	1
Individual design [1]	Go to configurator	TB/U1.1.1-CG	2CKA006300A1538		86x86	1

TB/U2.4.1-CG

2-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB79	TB/U2.4.1-CG	2CKA006300A1539		86x86	1
Black	F5XVPBZH	TB/U2.4.1-CG	2CKA006300A1539		86x86	1
Individual design [1]	Go to configurator	TB/U2.4.1-CG	2CKA006300A1539		86x86	1

TB/U2.5.1-CG

2-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7Z	TB/U2.5.1-CG	2CKA006300A1540		86x86	1
Black	F5XVPBZR	TB/U2.5.1-CG	2CKA006300A1540		86x86	1
Individual design [1]	Go to configurator	TB/U2.5.1-CG	2CKA006300A1540		86x86	1
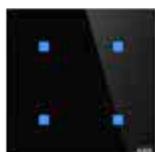
TB/U4.4.1-CG

4-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBZF	TB/U4.4.1-CG	2CKA006300A1541		86x86	1
Black	F5XVPBZ4	TB/U4.4.1-CG	2CKA006300A1541		86x86	1
Individual design [1]	Go to configurator	TB/U4.4.1-CG	2CKA006300A1541		86x86	1
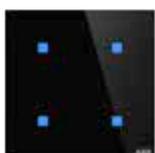
TB/U4.5.1-CG

4-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBZY	TB/U4.5.1-CG	2CKA006300A1612		86x86	1
Black	F5XVPBZK	TB/U4.5.1-CG	2CKA006300A1612		86x86	1
Individual design [1]	Go to configurator	TB/U4.5.1-CG	2CKA006300A1612		86x86	1

[1] The individual design can be selected via the website:
  URL: https://tacteo-configurator.eu.mybuildings.abb.com/

TB/U6.4.1-CG

6-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBZN	TB/U6.4.1-CG	2CKA006300A1542		86x86	1
Black	F5XVPBZ6	TB/U6.4.1-CG	2CKA006300A1542		86x86	1
Individual design [1]	Go to configurator	TB/U6.4.1-CG	2CKA006300A1542		86x86	1

TB/U6.5.1-CG

6-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBZ3	TB/U6.5.1-CG	2CKA006300A1602		86x86	1
Black	F5XVPBZT	TB/U6.5.1-CG	2CKA006300A1602		86x86	1
Individual design [1]	Go to configurator	TB/U6.5.1-CG	2CKA006300A1602		86x86	1

TB/U12.7.1-CG

12-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7J	TB/U12.7.1-CG	2CKA006300A1543		86x157	1
Black	F5XVPBZ7	TB/U12.7.1-CG	2CKA006300A1543		86x157	1
Individual design [1]	Go to configurator	TB/U12.7.1-CG	2CKA006300A1543		86x157	1

TB/U12.8.1-CG

12-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7G	TB/U12.8.1-CG	2CKA006300A1544		157x86	1
Black	F5XVPBZE	TB/U12.8.1-CG	2CKA006300A1544		157x86	1
Individual design [1]	Go to configurator	TB/U12.8.1-CG	2CKA006300A1544		157x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges – ABB-tacteo

TBR/U4.7.1-CG
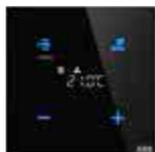
TBR/U4.8.1-CG

Touch Control Element with Room Temperature Controller and Bus Coupler, 4-fold, FM   **NEW**

Freely configurable multifunction control element. The icons and/or texts are configured by means of a web configuration tool. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0 %. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7A	TBR/U4.7.1-CG	2CKA006300A1545		86x157	1
Black	F5XVPB73	TBR/U4.7.1-CG	2CKA006300A1545		86x157	1
Individual design [1]	Go to configurator	TBR/U4.7.1-CG	2CKA006300A1545		86x157	1
White	F5XVPB7B	TBR/U4.8.1-CG	2CKA006300A1546		157x86	1
Black	F5XVPB7N	TBR/U4.8.1-CG	2CKA006300A1546		157x86	1
Individual design [1]	Go to configurator	TBR/U4.8.1-CG	2CKA006300A1546		157x86	1

TR/U.1.1-CG

Touch Room Temperature Controller with Bus Coupler, FM   **NEW**

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0 %. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7P	TR/U.1.1-CG	2CKA006300A1547		86x86	1
Black	F5XVPB7M	TR/U.1.1-CG	2CKA006300A1547		86x86	1
Individual design [1]	Go to configurator	TR/U.1.1-CG	2CKA006300A1547		86x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

TBW/U.1.1-CG

Busch-Watchdog® 180 Sensor Standard with Bus Coupler, FM   **NEW**

Ordering possible only in connection with the design ID. Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated temperature sensor. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7U	TBW/U.1.1-CG	2CKA006300A1548		86x86	1
Black	F5XVPB7H	TBW/U.1.1-CG	2CKA006300A1548		86x86	1
Individual design [1]	Go to configurator	TBW/U.1.1-CG	2CKA006300A1548		86x86	1

TA/U3.1.1-CG

Room Outdoor Sensor with Bus Coupler, FM   **NEW**

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function ”Do not disturb“, ”Bell“ and ”Make up room“. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. With integrated temperature sensor. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB76	TA/U3.1.1-CG	2CKA006300A1549		86x86	1
Black	F5XVPBZ1	TA/U3.1.1-CG	2CKA006300A1549		86x86	1
Individual design [1]	Go to configurator	TA/U3.1.1-CG	2CKA006300A1549		86x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – ABB-tacteo

TLM/U.1.1-CG

Room Outdoor Sensor with Card Reader and Bus Coupler, FM   **NEW**

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". For reading mifare RF cards. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBF6	TLM/U.1.1-CG	2CKA006300A1550		86x86	1
Black	F5XVPB7F	TLM/U.1.1-CG	2CKA006300A1550		86x86	1
Individual design [1]	Go to configurator	TLM/U.1.1-CG	2CKA006300A1550		86x86	1

TKK/U.1.1-CG

Card Holder with Bus Coupler, conventional   **NEW**

Ordering possible only in connection with the design ID. For inserting mifare RF cards. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room".

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBFC	TKK/U.1.1-CG	2CKA006300A1552		86x86	1
Black	F5XVPB72	TKK/U.1.1-CG	2CKA006300A1552		86x86	1
Individual design [1]	Go to configurator	TKK/U.1.1-CG	2CKA006300A1552		86x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

TKM/U.1.1-CG

Card Holder with Bus Coupler, universal **NEW**

Ordering possible only in connection with the design ID. For inserting and evaluating of mifare RF cards. The icons and/or texts are configured by means of a web configuration tool. With integrated KNX bus coupler. Freely programmable function "Do not disturb", "Bell" and "Make up room". Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBFK	TKM/U.1.1-CG	2CKA006300A1553		86x86	1
Black	F5XVPBFW	TKM/U.1.1-CG	2CKA006300A1553		86x86	1
Individual design [1]	Go to configurator	TKM/U.1.1-CG	2CKA006300A1553		86x86	1

TSM/U.2.1-CG

Room Outdoor Sensor with Card Reader, Room Number and Bus Coupler, FM **NEW**

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". For reading mifare RF cards. With backlit room number. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	–	TSM/U.2.1-CG	2CKA006300A1555		86x157	1
Black	–	TSM/U.2.1-CG	2CKA006300A1555		86x157	1
Individual design [1]	Go to configurator	TSM/U.2.1-CG	2CKA006300A1555		86x157	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – ABB-tacteo

Touch Control Element with Bus Coupler, FM   **NEW**
Freely configurable multifunction control element. The icons and/or texts are configured by means of a web configuration tool. With integrated KNX bus coupler. With integrated temperature sensor. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.

TB/U1.3.1-CG

1-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB74	TB/U1.3.1-CG	2CKA006300A1590		115x86	1
Black	F5XVPBZS	TB/U1.3.1-CG	2CKA006300A1590		115x86	1
Individual design [1]	Go to configurator	TB/U1.3.1-CG	2CKA006300A1590		115x86	1

TB/U2.8.1-CG

2-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7D	TB/U2.8.1-CG	2CKA006300A1579		115x86	1
Black	F5XVPBZU	TB/U2.8.1-CG	2CKA006300A1579		115x86	1
Individual design [1]	Go to configurator	TB/U2.8.1-CG	2CKA006300A1579		115x86	1

TB/U2.7.1-CG

2-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7W	TB/U2.7.1-CG	2CKA006300A1580		86x115	1
Black	F5XVPBZV	TB/U2.7.1-CG	2CKA006300A1580		86x115	1
Individual design [1]	Go to configurator	TB/U2.7.1-CG	2CKA006300A1580		86x115	1

TB/U4.8.1-CG

4-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBZ2	TB/U4.8.1-CG	2CKA006300A1593		115x86	1
Black	F5XVPBZJ	TB/U4.8.1-CG	2CKA006300A1593		115x86	1
Individual design [1]	Go to configurator	TB/U4.8.1-CG	2CKA006300A1593		115x86	1

TB/U6.8.1-CG

6-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBZA	TB/U6.8.1-CG	2CKA006300A1594		115x86	1
Black	F5XVPBZC	TB/U6.8.1-CG	2CKA006300A1594		115x86	1
Individual design [1]	Go to configurator	TB/U6.8.1-CG	2CKA006300A1594		115x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

TR/U.3.1-CG

Touch Room Temperature Controller with Bus Coupler, FM **NEW**

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Control element with room thermostat function for controlling TSA/K 230.1, TSA/K 24.1 in connection with KNX-Heating actuator, commercially available valve drives or analogue valve drives (continuous controllers). The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0 %. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7E	TR/U.3.1-CG	2CKA006300A1595		115x86	1
Black	F5XVPB7Q	TR/U.3.1-CG	2CKA006300A1595		115x86	1
Individual design [1]	Go to configurator	TR/U.3.1-CG	2CKA006300A1595		115x86	1

TBW/U.3.1-CG

Busch-Watchdog® 180 Sensor Standard with Bus Coupler, FM **NEW**

Ordering possible only in connection with the design ID. Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated temperature sensor. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB71	TBW/U.3.1-CG	2CKA006300A1596		115x86	1
Black	F5XVPB7R	TBW/U.3.1-CG	2CKA006300A1596		115x86	1
Individual design [1]	Go to configurator	TBW/U.3.1-CG	2CKA006300A1596		115x86	1

TA/U3.3.1-CG

Room Outdoor Sensor with Bus Coupler, FM **NEW**

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". For reading mifare RF cards. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7T	TA/U3.3.1-CG	2CKA006300A1597		115x86	1
Black	F5XVPBZX	TA/U3.3.1-CG	2CKA006300A1597		115x86	1
Individual design [1]	Go to configurator	TA/U3.3.1-CG	2CKA006300A1597		115x86	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges – ABB-tacteo

TLM/U.3.1-CG

Room Outdoor Sensor with Card Reader and Bus Coupler, FM   NEW

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. With integrated temperature sensor. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBFT	TLM/U.3.1-CG	2CKA006300A1599		115x86	1
Black	F5XVPB7Y	TLM/U.3.1-CG	2CKA006300A1599		115x86	1
Individual design [1]	Go to configurator	TLM/U.3.1-CG	2CKA006300A1599		115x86	1

TKK/U.3.1-CG

Card Holder with Bus Coupler, conventional   NEW

Ordering possible only in connection with the design ID. For inserting mifare RF cards. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room".

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBF4	TKK/U.3.1-CG	2CKA006300A1588		115x86	1
Black	F5XVPBF9	TKK/U.3.1-CG	2CKA006300A1588		115x86	1
Individual design [1]	Go to configurator	TKK/U.3.1-CG	2CKA006300A1588		115x86	1

TKM/U.3.1-CG

Card Holder with Bus Coupler, universal   NEW

Ordering possible only in connection with the design ID. For inserting and evaluating of mifare RF cards. The icons and/or texts are configured by means of a web configuration tool. With integrated KNX bus coupler. Freely programmable function "Do not disturb", "Bell" and "Make up room". Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBFG	TKM/U.3.1-CG	2CKA006300A1589		115x86	1
Black	F5XVPBFD	TKM/U.3.1-CG	2CKA006300A1589		115x86	1
Individual design [1]	Go to configurator	TKM/U.3.1-CG	2CKA006300A1589		115x86	1

[1] The individual design can be selected via the website:
   URL: https://tacteo-configurator.eu.mybuildings.abb.com/

Touch Control Element with Bus Coupler, FM   **NEW**

Freely configurable multifunction control element. The icons and/or texts are configured by means of a web configuration tool. With integrated KNX bus coupler. With integrated temperature sensor. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. The bus connection is provided via the enclosed bus terminal.

TB/U1.2.1-CG

1-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7K	TB/U1.2.1-CG	2CKA006300A1578		86x115	1
Black	F5XVPBZP	TB/U1.2.1-CG	2CKA006300A1578		86x115	1
Individual design [1]	Go to configurator	TB/U1.2.1-CG	2CKA006300A1578		86x115	1

TB/U4.7.1-CG

4-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBZ8	TB/U4.7.1-CG	2CKA006300A1581		86x115	1
Black	F5XVPBZG	TB/U4.7.1-CG	2CKA006300A1581		86x115	1
Individual design [1]	Go to configurator	TB/U4.7.1-CG	2CKA006300A1581		86x115	1

TB/U6.7.1-CG

6-fold

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBZB	TB/U6.7.1-CG	2CKA006300A1582		86x115	1
Black	F5XVPBZ5	TB/U6.7.1-CG	2CKA006300A1582		86x115	1
Individual design [1]	Go to configurator	TB/U6.7.1-CG	2CKA006300A1582		86x115	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges – ABB-tacteo

TR/U.2.1-CG

Touch Room Temperature Controller with Bus Coupler, FM   **NEW**
Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Control element with room thermostat function for controlling TSA/K 230.1, TSA/K 24.1 in connection with KNX-Heating actuator, commercially available valve drives or analogue valve drives (continuous controllers). The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1. Contribution to space heating energy efficiency 1,0 %. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB77	TR/U.2.1-CG	2CKA006300A1583		86x115	1
Black	F5XVPB7S	TR/U.2.1-CG	2CKA006300A1583		86x115	1
Individual design [1]	Go to configurator	TR/U.2.1-CG	2CKA006300A1583		86x115	1

TBW/U.2.1-CG

Busch-Watchdog® 180 Sensor Standard with Bus Coupler, FM   **NEW**
Ordering possible only in connection with the design ID. Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated temperature sensor. With integrated KNX bus coupler.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB7X	TBW/U.2.1-CG	2CKA006300A1584		86x115	1
Black	F5XVPB7V	TBW/U.2.1-CG	2CKA006300A1584		86x115	1
Individual design [1]	Go to configurator	TBW/U.2.1-CG	2CKA006300A1584		86x115	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

TA/U3.2.1-CG

Room Outdoor Sensor with Bus Coupler, FM NEW

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". For reading mifare RF cards. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPB75	TA/U3.2.1-CG	2CKA006300A1585		86x115	1
Black	F5XVPBZM	TA/U3.2.1-CG	2CKA006300A1585		86x115	1
Individual design [1]	Go to configurator	TA/U3.2.1-CG	2CKA006300A1585		86x115	1

TLM/U.2.1-CG

Room Outdoor Sensor with Card Reader and Bus Coupler, FM NEW

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. With integrated temperature sensor. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	F5XVPBF5	TLM/U.2.1-CG	2CKA006300A1587		86x115	1
Black	F5XVPB78	TLM/U.2.1-CG	2CKA006300A1587		86x115	1
Individual design [1]	Go to configurator	TLM/U.2.1-CG	2CKA006300A1587		86x115	1
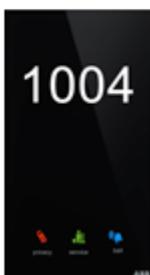
TSN/U.2.1-CG

Room Outdoor Sensor with Room Number and Bus Coupler, FM NEW

Ordering possible only in connection with the design ID. The icons and/or texts are configured by means of a web configuration tool. Freely programmable function "Do not disturb", "Bell" and "Make up room". With backlit room number. Push switch function: switching / dimming / blind / sending values / scenes etc. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. With integrated KNX bus coupler. The bus connection is provided via the enclosed bus terminal.

Description	Standard Design ID	Order details		Price 1 piece	Dimensions	Pack unit
		Type code	Order code	€	mm	pc.
White	–	TSN/U.2.1-CG	2CKA006300A1603		86x157	1
Black	–	TSN/U.2.1-CG	2CKA006300A1603		86x157	1
Individual design [1]	Go to configurator	TSN/U.2.1-CG	2CKA006300A1603		86x157	1

[1] The individual design can be selected via the website:
URL: https://tacteo-configurator.eu.mybuildings.abb.com/

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges – Busch-priOn®

Busch-priOn® allows you to control and monitor functions for the entire room. Light, scenes, timer, blind control unit, heating control unit – all functions are controlled simply and intuitively via a rotary dial, and freely programmable functions can be called up via the rocker switches. Busch-priOn® is a non-fixed, modular concept.
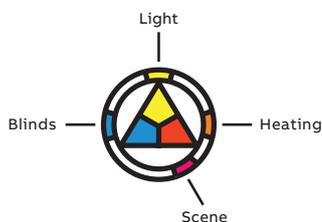
Colours that make life easier.
A consistent colour coding concept and durable LED technology make Busch-priOn® extremely easy to operate. The dial lights up in the colours of the coding system, thus providing feedback on the function currently selected. Yellow stands for lighting, blue for the blind control unit, magenta for light scenes and orange for the heating control unit. These colours are also found on the rocker switches of the control element panels.

01

The rotary control element is equipped with a freely programmable button which can be pressed and turned. It can be used to switch and dim individual lamps, but also to switch on whole groups of lamps with one press of a button and vary their brightness continuously via the dial.

Function
Dimming | Blinds | Value | Light scenes | Logic functions | Time functions

Features
Illuminated dial | Colour coding concept | Anti-theft protection | Day/night operation

02

The single control element is equipped with a freely programmable "large" operating button. It can be assigned to one topic and can carry out a maximum of two commands.

Function
Switching | Dimming | Blinds | Value | Buttons | Light scenes | Logic functions | Time functions

Features
Illuminated rocker switch | Colour coding concept | Freely programmable control button | Anti-theft protection | Replaceable labelling symbol (Fig. shows Lighting labelling symbol)

03

The triple control element is equipped with 3 freely programmable control buttons. Each can be assigned to one topic and can carry out a maximum of two commands.

Function
Switching | Dimming | Blinds | Value | Buttons | Light scenes | Logic functions | Time functions

Features
Illuminated rocker switches | Colour coding concept | Freely programmable control buttons | Anti-theft protection | Replaceable labelling symbol (Fig. shows labelling symbols Lighting, Blinds and Scene)

01	Rotary control element
02	1gang control element
03	3gang control element
04	Glass black
05	Studiowhite, glossy
06	Stainless steel
07	White glass

04

05

06

07

reddot design award
best of the best 2008

Busch-priOn® received special commendment in the category "best of the best," winning the "red dot award: communication design 2008" for its interface design.

01

A single-line display with integrated room temperature controller has been designed for the Busch-priOn® 3gang control element, technically reduced to the basics and optically elegant. It is particularly easy to read due to the monochromatic design for white on black information. The room temperature controller, information function like time and date, up to 17 freely programmable text displays, IR sensor and proximity sensor have been integrated into the display. The design of the display is available in the colour and material "glass black" only.

02

The 8.9 cm (3.5") TFT display gives a clear overview of all information. Operation is simple intuitive, supported the colour coding concept. It is possible freely combine several Busch-priOn® elements with each other. display and a special allow simple and convenient control.

03

Busch-priOn® is a nonfixed, modular-design system. The rocker switches of the triple control element allow you to call up freely programmable functions such as light scenes, blind functions or specific lamps.

04

Busch-priOn® is ideal in combination with the carat® switch series, which has surfaces in the same design.

05

The Busch-priOn® flush-mounted movement sensor can be used individually or with other Busch-priOn® modules. Practical because users thus do not have to look for the light switch and are greeted with light when first entering a dark room.

The 8.9 cm (3.5") TFT display gives a clear overview of all information. The user can choose from 3 surface designs: black, blue and silver.
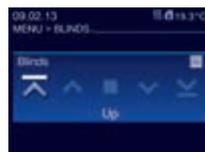
Blinds

Climate control

Scene

Note: We can only give you a rough idea here of the wide range of combinations offered by this modular concept. For more detailed information, see our separate product brochure / planning aid or the catalogue.

01	3gang control element with single-line display and temperature controller
02	2gang combination
03	3gang combination
04	carat® glass black
05	Flush-mounted movement sensor

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – Planning aid for Busch-priOn®

End strips without function
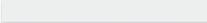
studio white,
Article-No. 6348-24G-101-500

glass black,
Article-No. 6348-825-101-500
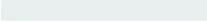
white glass,
Article-No. 6348-811-101-500

stainless steel,
Article-No. 6348-860-101-500

Support frame, bus coupler

Bus coupler Busch-priOn®,
Article-No. 6120/12-101

1gang,
Article-No.
6346/10-101-500

Note:
This power adaptor can supply up to 15 power bus couplers with current.

Power adaptor REG,
Article-No.
CP-D 24/2.5

Bus coupler Busch-priOn®,
Article-No. 6120/13-500

2gang,
Article-No.
6346/11-101-500

3gang,
Article-No.
6346/12-101-500

Without end strip incl. temperature reading

FM actuators

Switch actuator, 1gang, FM 2.300 w/VA, Article-No. 6354 U-500

Universal dimming actuator, 1gang, FM 10–450 w/VA, Article-No. 6355 U-500

Serial/blind actuator, 2/1gang, FM 2.300 w/VA, Article-No. 6356 U-500
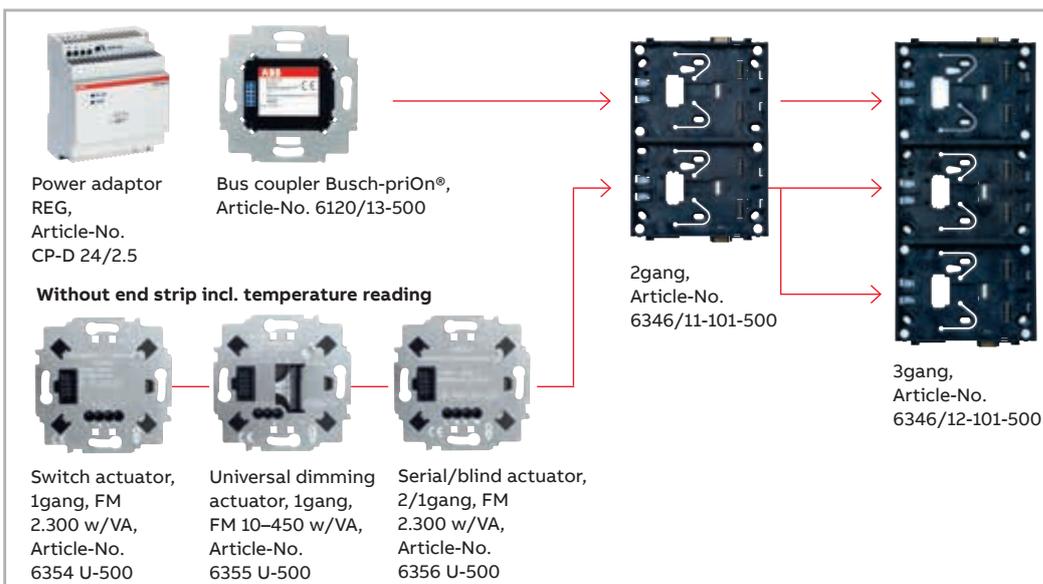
End strip

Commissioning adaptor,
Article-No. 6149/21-500

End strips without function
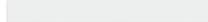
studio white,
Article-No. 6349-24G-101-500
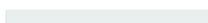
white glass,
Article-No. 6349-811-101-500

glass black,
Article-No. 6349-825-101-500

stainless steel,
Article-No. 6349-860-101-500

End strip with IR proximity function

glass black,
Article-No.
6350-825-101-500

Note:
only combinable
with 3gang control
element

Single-line
display and room
thermostat,
Article-No.
6351-825-101-500

Control element,
1gang,
Article-No.
6340-825-101-500

Control element,
3gang, Article-No.
6342-825-101-500

**Colour display
with rotary
control
element,
Article-No.
6344-825-101-500**

Rotary control
element, 1gang,
Article-No.
6341-825-101-500

Busch-Watchdog,
180 FM,
Article-No.
6345-825-101-500

**End strips with
temperature sensor.**

Not combinable with FM
actuators.
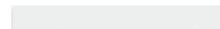
studio white,
Article-No. 6352-24G-101-500
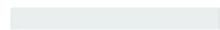
white glass,
Article-No. 6352-811-101-500

glass black,
Article-No. 6352-825-101-500

stainless steel,
Article-No. 6352-860-101-500

Colour range

Busch-priOn®
glass black

Busch-priOn®
white glass

Busch-priOn®
stainless steel

Busch-priOn®
studio white, gloss

Labelling symbols

Labelling inserts for blinds, lighting,
RTC and scene. The colours are repeated in the
Busch-Jaeger colour concept.

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges – Busch-priOn®

6120/12-101-500

Bus Coupler, FM
for Busch-priOn® support frame 1-fold 6346/10-10x and control elements 6122/0x-xxx,
6124/0x-xxx, 6125/0x-xxx, 6126/0x-xxx, 6127/0x-xxx, 6128/0x-xxx and 6129/0x-xxx.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6120/12-101-500	2CKA006120A0075		0.068	1
swiss version	–	6120/12-101-508	2CKA006120A0076		0.068	1

6120/13-500

Power Bus Coupler, FM, Busch-priOn®
For Busch-priOn® base frame 1-fold, 2-fold and 3-fold. Separate power supply required.
The KNX connection is used exclusively for bus communication.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6120/13-500	2CKA006120A0072		0.095	1
swiss version	–	6120/13-508	2CKA006120A0073		0.095	1

6354 U-500

Switch Actuator/Sensor, 1-fold, FM, Busch-priOn®
For switching incandescent lamps, 230 V halogen lamps, fluorescent lamps and low-voltage
halogen lamps operated using transformers 3-wire technology (Neutral conductor required).
Only in conjunction with a 2-fold and 3-fold base frame Cannot be combined with the lower
finishing strip with temperature sensor.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6354 U-500	2CKA006310A0097		0.107	1

6356 U-500

Shutter/2-fold Actuator, FM, Busch-priOn®
Only in conjunction with a 2-fold and 3-fold base frame. Not suitable for switching fluores-
cent lamps, HQI lamps and HQL lamps. Cannot be combined with the lower finishing strip
with temperature sensor.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6356 U-500	2CKA006310A0099		0.122	1

6355 U-500

Universal Dim Actuator, 1-fold, FM, Busch-priOn®

For dimming and switching of incadescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional or electronic transformers. 2-wire connection (neutral conductor not required). Do not operate conventional transformers and electronic transformers together on the universal dimmer switch insert. Can be used only in connection with support frame 2gang (6346/11-101-500) and 3gang (6346/12-101-500). Not combinable with the bottom end strip with temperature sensor (6352-xxx-101-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6355 U-500	2CKA006310A0098		0.103	1
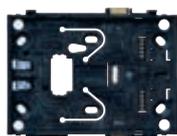
6346/10-101-500

Base Frame, 1-fold, Busch-priOn®

For Busch-priOn® for seating and contact connection of rotary control elements, operating element 1-fold and 3-fold as well as the top/bottom finishing strip. For contacting with the Bus Coupler priOn or Power Bus Coupler priOn.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6346/10-101-500	2CKA006310A0135		0.012	1
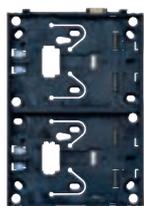
6346/11-101-500

Base Frame, 2-fold, Busch-priOn®

For Busch-priOn® for seating and contact connection of 8.89 cm (3.5") TFT colour display with rotary control element, rotary control element 1-fold and 3-fold as well as the top/bottom finishing strip. For contacting with the Power Bus Coupler priOn.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6346/11-101-500	2CKA006310A0137		0.116	1

6346/12-101-500

Base Frame, 3-fold, Busch-priOn®

For Busch-priOn® for seating and contact connection of 8.89 cm (3.5") TFT colour display with rotary control element, rotary control element 1-fold and 3-fold as well as the top/bottom finishing strip. For contacting with the Power Bus Coupler priOn.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6346/12-101-500	2CKA006310A0139		0.159	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – Busch-priOn®

6340-825-101-500

Control Element, 1-fold, Busch-priOn®
Freely programmable multi-function operation element for installation in the Base Frame 1-fold, 2-fold or 3-fold. Supports the KNX functions with innovative colour concept on the labelling symbols or standard lighting in red/green. The accompanying symbol can be substituted by other alternative labelling symbols.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6340-24G-101-500	2CKA006310A0109		0.188	1
white glass	–	6340-811-101-500	2CKA006310A0168		0.164	1
glas black	–	6340-825-101-500	2CKA006310A0108		0.145	1
stainless steel	–	6340-866-101-500	2CKA006310A0106		0.325	1

6342-825-101-500

Control Element, 3-fold, Busch-priOn®
Freely programmable multi-function operation element for installation in the Base Frame 1-fold, 2-fold or 3-fold. Supports the KNX functions with innovative colour concept on the labelling symbols or standard lighting in red/green. The accompanying symbol can be substituted by other alternative labelling symbols.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6342-24G-101-500	2CKA006310A0125		0.191	1
white glass	–	6342-811-101-500	2CKA006310A0172		0.203	1
glas black	–	6342-825-101-500	2CKA006310A0124		0.203	1
stainless steel	–	6342-866-101-500	2CKA006310A0122		0.32	1

6341-825-101-500

Rotary Control Element, 1-fold, Busch-priOn®
Freely programmable multi-function rotary control element for installation in the Base Frame 1-fold, 2-fold or 3-fold. Supports the KNX functions with innovative colour concept on the rotary knob or standard lighting in red/green. Rotary knob stainless steel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6341-24G-101-500	2CKA006310A0117		0.218	1
white glass	–	6341-811-101-500	2CKA006310A0170		0.23	1
glas black	–	6341-825-101-500	2CKA006310A0116		0.175	1
stainless steel	–	6341-866-101-500	2CKA006310A0114		0.336	1

6344-825-101-500

8.89 cm (3,5") TFT-Display with Rotary Control Element, Busch-priOn®

Freely programmable 8.89 cm (3.5") TFT colour display with rotary control element for installation in the Base Frame, 2-fold or 3-fold. For representation of up to 120 functions.
With integrated weekly time switch, alarm, timer, with light scene function, screensaver and control of multimedia devices (in conjunction with additional device). Free function inscription with user-defined texts and symbols. Supports the KNX functions with innovative colour concept on the rotary knob. Rotary knob stainless steel.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6344-24G-101-500	2CKA006310A0133		0.383	1
white glass	–	6344-811-101-500	2CKA006310A0174		0.375	1
glas black	–	6344-825-101-500	2CKA006310A0132		0.422	1
stainless steel	–	6344-866-101-500	2CKA006310A0130		0.63	1

6345-825-101-500

Busch Watchdog® 180 FM Sensor, Busch-priOn®

Sends switching commands with motion detection in combination with the bus coupler Busch-priOn®. Programmable via ETS for automatic and semi-automatic operation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6345-24G-101-500	2CKA006310A0081		0.188	1
white glass	–	6345-811-101-500	2CKA006310A0176		0.166	1
glas black	–	6345-825-101-500	2CKA006310A0080		0.167	1
stainless steel	–	6345-866-101-500	2CKA006310A0078		0.325	1

6348-825-101-500

Top End Strip, Busch-priOn®

For mounting on Base Frame 1-fold to 3-fold.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6348-24G-101-500	2CKA006310A0147		0.024	1
white glass	–	6348-811-101-500	2CKA006310A0178		0.034	1
glas black	–	6348-825-101-500	2CKA006310A0146		0.027	1
stainless steel	–	6348-866-101-500	2CKA006310A0144		0.048	1

6350-825-101-500

Top End Strip with IR Receiver and Proximity Sensor, Busch-priOn®

For mounting on Base Frame 1-fold to 3-fold. With integrated IR receiver for control by IR handheld control as well as integrated proximity function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
glas black	–	6350-825-101-500	2CKA006310A0157		0.037	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – Busch-priOn®

6349-825-101-500

Bottom End Strip, without logo, Busch-priOn®
For mounting on Base Frame 1-fold to 3-fold.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6349-24G-101-500	2CKA006310A0155		0.024	1
white glass	–	6349-811-101-500	2CKA006310A0180		0.035	1
glas black	–	6349-825-101-500	2CKA006310A0154		0.027	1
stainless steel	–	6349-860-101-500	2CKA006310A0152		0.048	1

6352-825-101-500

Bottom End Strip with Temperature Sensor, Busch-priOn®
For mounting on Base Frame 1-fold to 3-fold. Provides the value measured by the temperature sensor to the 8.89 cm (3.5") TFT colour display or the room thermostat.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white, high gloss	–	6352-24G-101-500	2CKA006310A0165		0.024	1
white glass	–	6352-811-101-500	2CKA006310A0182		0.04	1
glas black	–	6352-825-101-500	2CKA006310A0164		0.024	1
stainless steel	–	6352-860-101-500	2CKA006310A0162		0.048	1

6351/08-825-500

Top End Strip with Display, Room Thermostat, IR Receiver and Proximity Sensor, Busch-priOn®
Top end strip for installation on 1gang to 3gang support frame (6346/10-101, 6346/11-101 and 6346/12-101). With integrated IR receiver for control using the Busch remote control 6010-25 or 6020-.../6121... and integrated proximity function. For heating and cooling (PI, PWM or 2-point). For control of up to 5-level ventilation actuators. With manual adjustment of fan levels. Master/slave configuration. With base-load operation. Display of up to 17 functions as text and/or icon. Only in connection with 1-gang rotary control element (6341-xxx-101) and 3-gang control element (6342-xxx-101) possible. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Detection range: frontal: 0.5 m, lateral: 0.5 m. Detection angle: 100 °. Mounting height: 1.1 m. Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 33.4 mm x 106.6 mm x 15.5 mm

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
glas black	–	6351/08-825-500	2CKA006310A0183		0.064	1

6353/20-860-500

Inscription Symbols, Busch-priOn®
For Busch-priOn® operating element 1-fold to 3-fold with different symbols.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
lighting	–	6353/20-860-500	2CKA006310A0093		0.011	1
blind	–	6353/30-860-500	2CKA006310A0094		0.011	1
Room Temperature	–	6353/40-860-500	2CKA006310A0095		0.011	1
scene	–	6353/50-860-500	2CKA006310A0096		0.011	1

6149/21-500

Commissioning Interface / Adapter
6120/12-101-500 and 6120/13-500 via USB port or via SD card slot.
With integrated battery for independent operation for up to 8 h.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6149/21-500	2CKA006133A0201		0.15	1

CP-D 24/2.5

Commissioning Interface / Adapter
6120/12-101-500 and 6120/13-500 via USB port or via SD card slot.
With integrated battery for independent operation for up to 8 h.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	CP-D 24/2.5	2CDG120037R0011		0.252	1

Notes

HVAC room automation
New solutions for HVAC room automation

ABB's room automation solutions ensure that all functions in a room are operated as efficiently as possible to save operational costs and improve the space environment.

For perfect climate conditions in a room
ABB's portfolio includes controllers for fan coils, radiators, floor heating and cooling ceiling applications, and devices for operating that can be easily installed on the wall or above the ceiling. Room control units are determined for small to medium commercial buildings. The whole ABB i-bus® KNX product portfolio is compatible with ClimaECO.

Easy installation and commissioning

Room Control Unit, SAR/A
The room temperature control unit allows every kind of room to be individually and conveniently heated or cooled as needed.

- Can be connected directly to FCC/S and VC/S
- Easy installation and commissioning
- Optimal price/peformance
- No power supply needed

—
User operation products

21°C

High degree of functionality

ClimaECO Room Controller
ABB has optimized its range of KNX room control units for commercial buildings.
The result: easy-to-use room thermostats.

- Available with integrated room temperature controller and CO_2/humidity sensor
- Can be flush or surface-mounted
- Control of all room functions from HVAC to shading and lighting

—

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – ClimaECO Sensors

SBS/U6.0.1-84

Control Element with RTC Slave Unit, 6-fold   NEW
Freely configurable multifunction control element. Room Thermostat extension with max. 6gang control. With labelling field. Transparent labelling sheet with standard symbols included in delivery. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). With integrated temperature sensor. With actual value temperature display. With display of set-value temperature. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SBS/U6.0.1-84	2CKA006330A0002			1

SBR/U6.0.1-84

Room Temperature Controller with Control Element, 6-fold   NEW
Freely configurable multifunction control element. With integrated KNX bus coupler. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. For activating heating, ventilation and fan coil actuators. Master/slave configuration. With base-load operation. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SBR/U6.0.1-84	2CKA006330A0004			1

SBS/U10.0.1-84

Control Element with RTC Slave Unit, 10-fold   NEW
Freely configurable multifunction control element. With labelling field. Transparent labelling sheet with standard symbols included in delivery. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). With integrated temperature sensor. With actual value temperature display. With display of set-value temperature. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SBS/U10.0.1-84	2CKA006330A0006			1

SBR/U10.0.1-84

Room Temperature Controller with Control Element, 10-fold   NEW

Freely configurable multifunction control element. With integrated KNX bus coupler. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. Master/slave configuration. With base-load operation. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SBR/U10.0.1-84	2CKA006330A0008			1

SBC/U6.0.1-84

RTC with CO$_2$/Humidity Sensor and Control Element   NEW

Control element with room temperature controller function and CO$_2$/moisture/air pressure sensor. With integrated KNX bus coupler. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green. Push switch function: switching / dimming / blind / sending values / scenes etc. For activating heating, ventilation and fan coil actuators. Master/slave configuration. With base-load operation. The fan stage can be switched manually or in automatic mode. Class of temperature controller 1.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white, 6-fold	–	SBC/U6.0.1-84	2CKA006330A0010			1
davos/studio white, 10-fold	–	SBC/U10.0.1-84	2CKA006330A0012			1
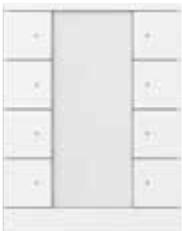
SB/U8.0.1-84

Control Element   NEW

With integrated KNX bus coupler. With labelling field. Support of KNX functions through innovative colour concept (yellow=lighting, blue=blind, orange=RTC, magenta=scene and white=neutral/no function assigned) or standard illumination red/green.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white, 8-fold	–	SB/U8.0.1-84	2CKA006330A0014			1
davos/studio white, 12-fold	–	SB/U12.0.1-84	2CKA006330A0016			1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – ClimaECO Sensors

SAS/A.0.1-84

Support Frame, small, SM   NEW
Surface-mounted housing for mounting 8gang control element, RT with 6gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SAS/A.0.1-84	2CKA006330A0018			1

SAB/A.0.1-84

Support Frame, large, SM   NEW
Surface-mounted housing for mounting 12gang control element, RT with 10gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SAB/A.0.1-84	2CKA006330A0020			1

SLS/A.0.1-84

Cover for Label Area, small, RTC   NEW
Marking coverplate for RTR with 6gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLS/A.0.1-84	2CKA006330A0022			1

SLM/A.0.1-84

Cover for Label Area, Control Element, small   NEW
Marking coverplate for 8gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLM/A.0.1-84	2CKA006330A0024			1

SLB/A.0.1-84

Cover for Label Area, large, RTC   NEW
Upper marking coverplate for RT with 10-fold control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLB/A.0.1-84	2CKA006330A0026			1

Cover for Label Area, Control Element, large

NEW

Marking coverplate for 12gang control element.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
davos/studio white	–	SLX/A.0.1-84	2CKA006330A0028			1

SLX/A.0.1-84

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Standard Control Elements

The standard control elements are available as 1/2gang, 2/4gang or 4/8gang models. Every switch rocker has two LEDs, which display the status of the connected loads. The separate switch rockers are freely programmable and are suitable for switching and dimming, and also for operating blinds and as a light scene extension unit.

They can also be used in commercial applications. Anti-theft protection has also been integrated – an important factor for installations in public areas.

Customised text. Pictograms can be applied to push buttons for easier orientation. A clear text template with standard symbols is included for every sensor. The self-explanatory pictograms are available for the complete range of building control technology and if necessary can be easily replaced. If the appropriate symbol is not included, the push buttons can be labelled as desired. The related bus-coupler unit is included in delivery.

01

Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | Status/orientation light (red/green/OFF)

02
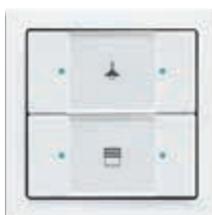
Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | Status/orientation light (red/green/OFF)

03

Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | Status/orientation light (red/green/OFF)

01   Standard control element 1/2gang
02   Standard control element 2/4gang
03   Standard control element 4/8gang

Standard control element with bus coupler enclosed

With labelling field. Transparent labelling sheet with standard symbols included in delivery. Display elements: Two LED per rocker via separate communication object for status (Red/Green/OFF) or orientation light. Protection class (Device): IP 20. Temperature range (Device): – 5 °C to + 45 °C. Dimensions: (L x W x D): 63 mm x 63 mm.

6125/01

6126/01

6127/01

Pack unit pc.	Weight 1 pc. kg	Description	Control Element with Bus Coupler, standard, FM, 1-fold with bus coupler enclosed		Price 1 pc.	Control Element with Bus Coupler, standard, FM, 2-fold with bus coupler enclosed		Price 1 pc.	Control Element with Bus Coupler, standard, FM, 4-fold with bus coupler enclosed		Price 1 pc.
			With 1 Control element: rocker switch left/right			With 2 Control elements: rocker switch left/right			With 4 Control elements: rocker switch left/right		
			Order details			Order details			Order details		
			Type	Order code		Type	Order code		Type	Order code	
		future® linear									
1		anthracite	6125/01-81-500	2CKA006115A0205		6126/01-81-500	2CKA006116A0195		6127/01-81-500	2CKA006117A0221	
1		savanne/ivory	6125/01-82-500	2CKA006115A0206		6126/01-82-500	2CKA006116A0196		6127/01-82-500	2CKA006117A0222	
1		aluminium silver [1]	6125/01-83-500	2CKA006115A0207		6126/01-83-500	2CKA006116A0197		6127/01-83-500	2CKA006117A0223	
1		davos/studio white	6125/01-84-500	2CKA006115A0183		6126/01-84-500	2CKA006116A0174		6127/01-84-500	2CKA006117A0200	
1		studio white, matt [1]	6125/01-884-500	2CKA006115A0214		6126/01-884-500	2CKA006116A0204		6127/01-884-500	2CKA006117A0230	
1		black, matt [1]	6125/01-885-500	2CKA006115A0215		6126/01-885-500	2CKA006116A0205		6127/01-885-500	2CKA006117A0231	
		solo®									
1		savanne/ivory	6125/01-82-500	2CKA006115A0206		6126/01-82-500	2CKA006116A0196		6127/01-82-500	2CKA006117A0222	
1		davos/studio white	6125/01-84-500	2CKA006115A0183		6126/01-84-500	2CKA006116A0174		6127/01-84-500	2CKA006117A0200	
1		meteor/grey metallic [1]	6125/01-803-500	2CKA006115A0212		6126/01-803-500	2CKA006116A0202		6127/01-803-500	2CKA006117A0228	
		carat®									
1		anthracite	6125/01-81-500	2CKA006115A0205		6126/01-81-500	2CKA006116A0195		6127/01-81-500	2CKA006117A0221	
1		savanne/ivory	6125/01-82-500	2CKA006115A0206		6126/01-82-500	2CKA006116A0196		6127/01-82-500	2CKA006117A0222	
1		davos/studio white	6125/01-84-500	2CKA006115A0183		6126/01-84-500	2CKA006116A0174		6127/01-84-500	2CKA006117A0200	
		pure stainless steel [1]									
1		stainless steel	6125/01-866-500	2CKA006115A0211		6126/01-866-500	2CKA006116A0201		6127/01-866-500	2CKA006117A0227	
		Busch-axcent®									
1		davos/studio white	6125/01-84-500	2CKA006115A0183		6126/01-84-500	2CKA006116A0174		6127/01-84-500	2CKA006117A0200	

[1] Surface painted

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Multifunction Control Elements

The multifunction control elements with LED colour code concept meet the highest demands for comfort and technology. They each come with two RGB LEDs per rocker switch, which conform to a consistent colour concept. This makes the function obvious at a glance, and the surfaces can be additionally fitted with pictograms. Each side of a rocker switch can be occupied with its own function – each for calling up one light scene, for instance. This turns a 4gang control element into an 8gang control element.
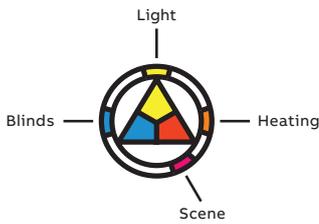
01 Multifunction control element 1/2gang
02 Multifunction control element 2/4gang
03 Multifunction control element 4/8gang
04 Room temperature controller
05 Multifunction control element 2/4gang, integrated room thermostat
06 Multifunction control element 3/6gang with IR reception
07 FM movement detector standard
08 FM movement detector comfort

01

Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit | Step-type | Multiple operation | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | LED colour code concept

02

Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit | Step-type | Multiple operation | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | LED colour code concept

03

Function
Switching | Dimming | Blinds | Push-button | Value transmitter | Light scene extension unit | Step-type | Multiple operation | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Freely programmable switches | LED colour code concept

Wide range. Different shapes, colours and materials fulfil every requirement. KNX control elements are available in the carat®, pure stainless steel, solo®, Busch-axcent® and future® linear pro-

grammes. The complete range of conventional switches from these series is available, so there are no limits to the options for combining KNX components.

04

Function
Comfort | Stand-by | Night mode | Frost protection | Specified temperature | Time | Date | Heating | Cooling | Fan Coil operation for heating and cooling | Light scenes | Light scene extension unit | Value | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Display illumination | LED colour code concept

05

Function
Comfort | Stand-by | Night mode | Frost protection | Specified temperature | Time | Date | Heating | Cooling | Fan Coil operation for heating and cooling | Light scenes | Light scene extension unit | Value | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Display illumination | Colour concept

06

Function
10 freely programmable IR channels | Switching | Dimming | Blinds | Button | Light scenes | Light scene extension unit | Value | Logic function (including light scenes)

Features
Labellable switch rockers | Anti-theft protection | Display illumination | Colour concept

07

08

Function
4 channels | Logic function (including light scenes)

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges – Multifunction Control Elements

Control element, Multi-function/colour concept
For BCU 6120/12-101-500 or 6120/13-500. With labelling field. Support of KNX functions through innovative colour concept or standard illumination red/green. Push switch function: switching/dimming/blind/sending values/scenes etc. Transparent labelling sheet with standard symbols included in delivery. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Display elements: Two LED per rocker via separate communication object for status (Red/Green/OFF) or orientation light.

6125/02   **6126/02**   **6127/02**

Pack unit pc.	Weight 1 pc. kg	Description	Control element, 1/2-fold Multi-function/colour concept		Control element, 2/4-fold Multi-function/colour concept		Control element, 4/8-fold Multi-function/colour concept	
			With 1 Control element: rocker switch left/right		With 2 Control elements: rocker switch left/right		With 4 Control elements: rocker switch left/right	
			Order details	Price 1 pc.	Order details	Price 1 pc.	Order details	Price 1 pc.
			Type	Order code	Type	Order code	Type	Order code
		future® linear						
1		anthracite	6125/02-81-500	2CKA006115A0216	6126/02-81-500	2CKA006116A0206	6127/02-81-500	2CKA006117A0232
1		savanne/ivory	6125/02-82-500	2CKA006115A0217	6126/02-82-500	2CKA006116A0207	6127/02-82-500	2CKA006117A0233
1		aluminium silver [1]	6125/02-83-500	2CKA006115A0218	6126/02-83-500	2CKA006116A0208	6127/02-83-500	2CKA006117A0234
1		davos/studio white	6125/02-84-500	2CKA006115A0219	6126/02-84-500	2CKA006116A0209	6127/02-84-500	2CKA006117A0235
1		studio white, matt [1]	6125/02-884-500	2CKA006115A0226	6126/02-884-500	2CKA006116A0216	6127/02-884-500	2CKA006117A0242
1		black, matt [1]	6125/02-885-500	2CKA006115A0227	6126/02-885-500	2CKA006116A0217	6127/02-885-500	2CKA006117A0243
		solo®						
1		savanne/ivory	6125/02-82-500	2CKA006115A0217	6126/02-82-500	2CKA006116A0207	6127/02-82-500	2CKA006117A0233
1		davos/studio white	6125/02-84-500	2CKA006115A0219	6126/02-84-500	2CKA006116A0209	6127/02-84-500	2CKA006117A0235
1		meteor/grey metallic [1]	6125/02-803-500	2CKA006115A0224	6126/02-803-500	2CKA006116A0214	6127/02-803-500	2CKA006117A0240
		carat®						
1		anthracite	6125/02-81-500	2CKA006115A0216	6126/02-81-500	2CKA006116A0206	6127/02-81-500	2CKA006117A0232
1		savanne/ivory	6125/02-82-500	2CKA006115A0217	6126/02-82-500	2CKA006116A0207	6127/02-82-500	2CKA006117A0233
1		davos/studio white	6125/02-84-500	2CKA006115A0219	6126/02-84-500	2CKA006116A0209	6127/02-84-500	2CKA006116A0209
		pure stainless steel [1]						
1		stainless steel	6125/02-866-500	2CKA006115A0223	6126/02-866-500	2CKA006116A0213	6127/02-866-500	2CKA006117A0239
		Busch-axcent®						
1		davos/studio white	6125/02-84-500	2CKA006115A0219	6126/02-84-500	2CKA006116A0209	6127/02-84-500	2CKA006117A0235
		Dynasty®						
1		anthracite	6125/02-81-500	2CKA006115A0216	6126/02-81-500	2CKA006116A0206	6127/02-81-500	2CKA006117A0232
1		savanne/ivory	6125/02-82-500	2CKA006115A0217	6126/02-82-500	2CKA006116A0207	6127/02-82-500	2CKA006117A0233
1		antique brass	6125/02-840-500	2CKA006115A0452	6126/02-840-500	2CKA006116A0227	6127/02-840-500	2CKA006117A0252

[1] Surface painted

Control Element, 3/6-fold, multifunction, with IR-Interface, FM
suitable for KNX bus coupler 6120/12-101-500 and 6120/13-500. With IR interface for Bus-ch-remote controllers 6010-25 or 6020-…/6021-… . Push button function: switching/dim-ming/blind/value sending/light scenes/step-type switch functions. Switch contacts left/right. Two freely programmable RGB LEDs per rocker. With RGB colour code concept or red/green/OFF-operation. With labeling field. Transparent labeling sheet with standard symbols included in delivery.

6129/01

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear						
anthracite	–	6129/01-81-500	2CKA006135A0156		0.08	1
savanne/ivory	–	6129/01-82-500	2CKA006135A0157		0.08	1
aluminium silver [1]	–	6129/01-83-500	2CKA006135A0158		0.08	1
davos/studio white	–	6129/01-84-500	2CKA006135A0146		0.08	1
studio white, matt [1]	–	6129/01-884-500	2CKA006135A0165		0.08	1
black, matt [1]	–	6129/01-885-500	2CKA006135A0166		0.08	1
solo®						
savanne/ivory	–	6129/01-82-500	2CKA006135A0157		0.08	1
davos/studio white	–	6129/01-84-500	2CKA006135A0146		0.08	1
meteor/grey metallic [1]	–	6129/01-803-500	2CKA006135A0163		0.08	1
carat®						
anthracite	–	6129/01-81-500	2CKA006135A0156		0.08	1
savanne/ivory	–	6129/01-82-500	2CKA006135A0157		0.08	1
davos/studio white	–	6129/01-84-500	2CKA006135A0146		0.08	1
pure stainless steel [1]						
stainless steel	–	6129/01-866-500	2CKA006135A0162		0.08	1
Busch-axcent®						
davos/studio white	–	6129/01-84-500	2CKA006135A0146		0.08	1

[1] Surface painted

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – Movement Detectors

6122/02-84-500

Busch-Watchdog® 180 Comfort, FM
Movement detector with up to 4 channels. For ABB i-bus® KNX 6120/12-101-500, 6120/13-500. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.)

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear						
anthracite	–	6122/02-81-500	2CKA006132A0283		0.063	1
savanne/ivory	–	6122/02-82-500	2CKA006132A0284		0.063	1
aluminium silver [1]	–	6122/02-83-500	2CKA006132A0285		0.063	1
davos/studio white	–	6122/02-84-500	2CKA006132A0263		0.063	1
studio white, matt [1]	–	6122/02-884-500	2CKA006132A0292		0.063	1
black, matt [1]	–	6122/02-885-500	2CKA006132A0293		0.063	1
solo®						
savanne/ivory	–	6122/02-82-500	2CKA006132A0284		0.063	1
davos/studio white	–	6122/02-84-500	2CKA006132A0263		0.063	1
meteor/grey metallic [1]	–	6122/02-803-500	2CKA006132A0290		0.063	1
carat®						
anthracite	–	6122/02-81-500	2CKA006132A0283		0.063	1
savanne/ivory	–	6122/02-82-500	2CKA006132A0284		0.063	1
davos/studio white	–	6122/02-84-500	2CKA006132A0263		0.063	1
pure stainless steel [1]						
stainless steel	–	6122/02-866-500	2CKA006132A0289		0.063	1
Busch-axcent®						
davos/studio white	–	6122/02-84-500	2CKA006132A0263		0.063	1

[1] Surface painted

6122/10-84-500

Busch-Watchdog® 180 Sensor Standard, Select with integrated bus coupler, FM
Movement detector with up to 4 channels. The bus can be connected via enclosed terminal block. With integrated KNX bus coupler.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	6122/10-212-500	2CKA006132A0373		0.08	1
alpine white	–	6122/10-214-500	2CKA006132A0374		0.08	1
future® linear						
anthracite	–	6122/10-81-500	2CKA006132A0376		0.08	1
ivory	–	6122/10-82-500	2CKA006132A0377		0.08	1
aluminium silver	–	6122/10-83-500	2CKA006132A0378		0.08	1
studio white	–	6122/10-84-500	2CKA006132A0379		0.08	1
studio white matt	–	6122/10-884-500	2CKA006132A0380		0.08	1
black, matt	–	6122/10-885-500	2CKA006132A0381		0.08	1
solo®						
ivory	–	6122/10-82-500	2CKA006132A0377		0.08	1
studio white	–	6122/10-84-500	2CKA006132A0379		0.08	1
grey metallic	–	6122/10-803-500	2CKA006132A0382		0.08	1
Busch-axcent®						
studio white	–	6122/10-84-500	2CKA006132A0379		0.08	1
pure stainless steel						
stainless steel	–	6122/10-866-500	2CKA006132A0385		0.08	1
carat®						
anthracite	–	6122/10-81-500	2CKA006132A0376		0.08	1
ivory	–	6122/10-82-500	2CKA006132A0377		0.08	1
studio white	–	6122/10-84-500	2CKA006132A0379		0.08	1
Dynasty®						
anthracite	–	6122/10-81-500	2CKA006132A0376		0.08	1
ivory	–	6122/10-82-500	2CKA006132A0377		0.08	1
antique brass	–	6122/10-840-500	2CKA006132A0407		0.08	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Room Thermostats
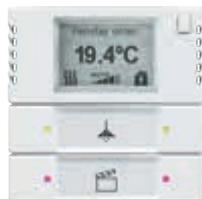
6128/28-884-500

Room Thermostat with Display and 2/4-fold Switch Sensor, FM
For ABB i-bus® KNX bus coupler 6120/12-101-500, 6120/13-500. Support of KNX functions through innovative colour concept (yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). Master/slave configuration. With base-load operation. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Transparent labelling sheet with standard symbols included in delivery. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts left/right, also for selecting setpoint and mode of operation Display elements: LCD showing operation mode and temperature. Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C. Dimensions: (L x W x D): 63 mm x 63 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear						
anthracite	–	6128/28-81-500	2CKA006134A0331		0.076	1
savanne/ivory	–	6128/28-82-500	2CKA006134A0332		0.076	1
aluminium silver	–	6128/28-83-500	2CKA006134A0333		0.076	1
davos/studio white	–	6128/28-84-500	2CKA006134A0334		0.076	1
studio white, matt	–	6128/28-884-500	2CKA006134A0338		0.076	1
black, matt	–	6128/28-885-500	2CKA006134A0339		0.076	1
solo®						
savanne/ivory	–	6128/28-82-500	2CKA006134A0332		0.076	1
davos/studio white	–	6128/28-84-500	2CKA006134A0334		0.076	1
meteor/grey metallic	–	6128/28-803-500	2CKA006134A0336		0.076	1
carat®						
anthracite	–	6128/28-81-500	2CKA006134A0331		0.076	1
savanne/ivory	–	6128/28-82-500	2CKA006134A0332		0.076	1
davos/studio white	–	6128/28-84-500	2CKA006134A0334		0.076	1
pure stainless steel						
stainless steel	–	6128/28-866-500	2CKA006134A0335		0.076	1
Busch-axcent®						
davos/studio white	–	6128/28-84-500	2CKA006134A0334		0.076	1
Dynasty®						
anthracite	–	6128/28-81-500	2CKA006134A0331		0.076	1
savanne/ivory	–	6128/28-82-500	2CKA006134A0332		0.076	1
antique brass	–	6128/28-840-500	2CKA006134A0342		0.076	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Frames

1721-184K

Frames, future® linear
For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, anthracite	–	1721-181K	2CKA001754A4240		0.024	10
1-fold, savanna/ivory	–	1721-182K-500	2CKA001754A4506		0.024	10
1-fold, aluminium silver [1]	–	1721-183K-500	2CKA001754A4529		0.024	10
1-fold, davos/studio white	–	1721-184K-500	2CKA001754A4498		0.024	10
1-fold, studio white, matt [1]	–	1721-884K-500	2CKA001754A4531		0.024	10
1-fold, black matt [1]	–	1721-885K-500	2CKA001754A4532		0.024	10
2-fold, anthracite	–	1722-181K	2CKA001754A4241		0.041	10
2-fold, savanna/ivory	–	1722-182K	2CKA001754A4231		0.041	10
2-fold, aluminium silver [1]	–	1722-183K-500	2CKA001754A4530		0.04	10
2-fold, davos/studio white	–	1722-184K-500	2CKA001754A4499		0.041	10
2-fold, studio white, matt [1]	–	1722-884K	2CKA001754A4415		0.037	10
2-fold, black matt [1]	–	1722-885K-500	2CKA001754A4534		0.037	10
3-fold, anthracite	–	1723-181K	2CKA001754A4242		0.05	10
3-fold, savanna/ivory	–	1723-182K	2CKA001754A4232		0.05	10
3-fold, aluminium silver [1]	–	1723-183K-500	2CKA001754A4533		0.052	10
3-fold, davos/studio white	–	1723-184K-500	2CKA001754A4502		0.053	10
3-fold, studio white, matt [1]	–	1723-884K	2CKA001754A4416		0.052	10
3-fold, black matt [1]	–	1723-885K	2CKA001754A4421		0.052	10
4-fold, anthracite	–	1724-181K	2CKA001754A4243		0.064	10
4-fold, savanna/ivory	–	1724-182K	2CKA001754A4233		0.064	10
4-fold, aluminium silver [1]	–	1724-183K	2CKA001754A4309		0.064	10
4-fold, davos/studio white	–	1724-184K	2CKA001754A4238		0.064	10
4-fold, studio white, matt [1]	–	1724-884K	2CKA001754A4417		0.064	10
4-fold, black matt [1]	–	1724-885K	2CKA001754A4422		0.064	10
5-fold, anthracite	–	1725-181K	2CKA001754A4244		0.096	1
5-fold, savanna/ivory	–	1725-182K	2CKA001754A4234		0.114	1
5-fold, aluminium silver [1]	–	1725-183K	2CKA001754A4310		0.114	1
5-fold, davos/studio white	–	1725-184K-500	2CKA001754A4517		0.112	1
5-fold, studio white, matt [1]	–	1725-884K	2CKA001754A4418		0.114	1
5-fold, black matt [1]	–	1725-885K	2CKA001754A4423		0.114	1

[1] Surface painted

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Frames

1721-80

Frames, solo®
For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, chrome, matt	–	1721-80-500	2CKA001754A4535		0.032	10
1-fold, chrome, glossy	–	1721-80G-500	2CKA001754A4538		0.032	10
1-fold, davos/studio white	–	1721-84-500	2CKA001754A4536		0.032	10
2-fold, chrome, matt	–	1722-80-500	2CKA001754A4537		0.055	10
2-fold, chrome, glossy	–	1722-80G	2CKA001754A4327		0.045	10
2-fold, davos/studio white	–	1722-84-500	2CKA001754A4539		0.055	10
3-fold, chrome, matt	–	1723-80-500	2CKA001754A4540		0.066	10
3-fold, chrome, glossy	–	1723-80G	2CKA001754A4328		0.073	10
3-fold, davos/studio white	–	1723-84-500	2CKA001754A4541		0.073	10
4-fold, chrome, matt	–	1724-80	2CKA001754A4107		0.12	1
4-fold, chrome, glossy	–	1724-80G	2CKA001754A4329		0.12	1
4-fold, davos/studio white	–	1724-84	2CKA001754A4112		0.12	1
5-fold, chrome, matt	–	1725-80	2CKA001754A4108		0.14	1
5-fold, chrome, glossy	–	1725-80G	2CKA001754A4330		0.14	1
5-fold, davos/studio white	–	1725-84	2CKA001754A4113		0.14	1

1721-860

Frames, carat®

For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, white glass	–	1721-811	2CKA001754A4442		0.161	1
1-fold, bronze	–	1721-821	2CKA001754A4258		0.38	1
1-fold, gold [1]	–	1721-823-101	2CKA001754A4356		0.34	1
1-fold, glass black	–	1721-825	2CKA001754A4322		0.16	1
1-fold, chrome	–	1721-826-101	2CKA001754A4360		0.335	1
1-fold, stainless steel	–	1721-860	2CKA001754A4254		0.34	1
2-fold, white glass	–	1722-811	2CKA001754A4443		0.234	1
2-fold, bronze	–	1722-821	2CKA001754A4259		0.559	1
2-fold, gold [1]	–	1722-823-101	2CKA001754A4357		0.5	1
2-fold, glass black	–	1722-825	2CKA001754A4323		0.24	1
2-fold, chrome	–	1722-826-101	2CKA001754A4361		0.5	1
2-fold, stainless steel	–	1722-860	2CKA001754A4255		0.48	1
3-fold, white glass	–	1723-811	2CKA001754A4444		0.312	1
3-fold, bronze	–	1723-821	2CKA001754A4260		0.678	1
3-fold, gold [1]	–	1723-823-101	2CKA001754A4358		0.66	1
3-fold, glass black	–	1722-825	2CKA001754A4323		0.24	1
3-fold, chrome	–	1723-826-101	2CKA001754A4362		0.66	1
3-fold, stainless steel	–	1723-860	2CKA001754A4256		0.6	1
4-fold, white glass	–	1724-811	2CKA001754A4445		0.388	1
4-fold, bronze	–	1724-821	2CKA001754A4261		0.816	1
4-fold, gold [1]	–	1724-823-101	2CKA001754A4359		0.8	1
4-fold, glass black	–	1724-825	2CKA001754A4325		0.4	1
4-fold, chrome	–	1724-826-101	2CKA001754A4363		0.82	1
4-fold, stainless steel	–	1724-860	2CKA001754A4257		0.758	1

[1] Gold plated 24 carat

1721-866K

Frames, pure stainless steel

For vertical and horizontal installation. Stainless steel material.
Anti-fingerprint (does not leave any visible fingerprints on the material).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, stainless steel	–	1721-866K-500	2CKA001754A4500		0.038	10
2-fold, stainless steel	–	1722-866K-500	2CKA001754A4501		0.064	10
3-fold, stainless steel	–	1723-866K	2CKA001754A4319		0.083	10
4-fold, stainless steel	–	1724-866K	2CKA001754A4320		0.14	1
5-fold, stainless steel	–	1725-866K	2CKA001754A4321		0.175	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Frames

1722-283

Frames, axcent®
For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, black	–	1721-281	2CKA001754A4409		0.041	10
1-fold, brown glass	–	1721-283	2CKA001754A4543		0.131	1
1-fold, davos/studio white	–	1721-284	2CKA001754A4331		0.038	10
1-fold, yellow	–	1721-285	2CKA001754A4334		0.041	10
1-fold, green	–	1721-286	2CKA001754A4337		0.041	10
1-fold, red	–	1721-287	2CKA001754A4340		0.041	10
1-fold, blue	–	1721-288	2CKA001754A4343		0.041	10
1-fold, white glass	–	1721-280	2CKA001754A4437		0.095	1
1-fold, entrée-grey	–	1721-291-500	2CKA001754A4471		0.041	10
1-fold, château-black	–	1721-295-500	2CKA001754A4491		0.041	10
1-fold, chalet-white	–	1721-296-500	2CKA001754A4486			10
1-fold, foyer-red	–	1721-297-500	2CKA001754A4476			10
1-fold, maison-beige	–	1721-299-500	2CKA001754A4481		0.041	10
2-fold, black	–	1722-281	2CKA001754A4410		0.054	10
2-fold, brown glass	–	1722-283	2CKA001754A4544		0.195	1
2-fold, davos/studio white	–	1722-284	2CKA001754A4332		0.055	10
2-fold, yellow	–	1722-285	2CKA001754A4335		0.055	10
2-fold, green	–	1722-286	2CKA001754A4338		0.055	10
2-fold, red	–	1722-287	2CKA001754A4341		0.055	10
2-fold, blue	–	1722-288	2CKA001754A4344		0.055	10
2-fold, white glass	–	1722-280	2CKA001754A4438		0.115	1
2-fold, entrée-grey	–	1722-291-500	2CKA001754A4472		0.055	10
2-fold, château-black	–	1722-295-500	2CKA001754A4492		0.055	10
2-fold, chalet-white	–	1722-296-500	2CKA001754A4487			10
2-fold, foyer-red	–	1722-297-500	2CKA001754A4477			10
2-fold, maison-beige	–	1722-299-500	2CKA001754A4482		0.055	10
3-fold, black	–	1723-281	2CKA001754A4411		0.073	10
3-fold, brown glass	–	1723-283	2CKA001754A4545		0.261	1
3-fold, davos/studio white	–	1723-284	2CKA001754A4333		0.073	10
3-fold, yellow	–	1723-285	2CKA001754A4336		0.073	10
3-fold, green	–	1723-286	2CKA001754A4339		0.073	10
3-fold, red	–	1723-287	2CKA001754A4342		0.073	10
3-fold, blue	–	1723-288	2CKA001754A4345		0.073	10
3-fold, white glass	–	1723-280	2CKA001754A4439		0.261	1
3-fold, entrée-grey	–	1723-291-500	2CKA001754A4473		0.073	10
3-fold, château-black	–	1723-295-500	2CKA001754A4493		0.073	10
3-fold, chalet-white	–	1723-296-500	2CKA001754A4488			10
3-fold, foyer-red	–	1723-297-500	2CKA001754A4478			10
3-fold, maison-beige	–	1723-299-500	2CKA001754A4483		0.073	10

Continuation of table "Frames, axcent" on next page

Continuation of table "Frames, axcent"

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, black	–	1724-281	2CKA001754A4412		0.117	1
4-fold, brown glass	–	1724-283	2CKA001754A4546		0.328	1
4-fold, davos/studio white	–	1724-284	2CKA001754A4346		0.117	1
4-fold, yellow	–	1724-285	2CKA001754A4348		0.117	1
4-fold, green	–	1724-286	2CKA001754A4350		0.117	1
4-fold, red	–	1724-287	2CKA001754A4352		0.117	1
4-fold, blue	–	1724-288	2CKA001754A4354		0.117	1
4-fold, white glass	–	1724-280	2CKA001754A4440		0.328	1
4-fold, entrée-grey	–	1724-291-500	2CKA001754A4474		0.117	1
4-fold, château-black	–	1724-295-500	2CKA001754A4494		0.117	1
4-fold, chalet-white	–	1724-296-500	2CKA001754A4489			1
4-fold, foyer-red	–	1724-297-500	2CKA001754A4479			1
4-fold, maison-beige	–	1724-299-500	2CKA001754A4484		0.117	1
5-fold, black	–	1725-281	2CKA001754A4413		0.145	1
5-fold, brown glass	–	1725-283	2CKA001754A4547		0.38	1
5-fold, davos/studio white	–	1725-284	2CKA001754A4347		0.145	1
5-fold, yellow	–	1725-285	2CKA001754A4349		0.145	1
5-fold, green	–	1725-286	2CKA001754A4351		0.145	1
5-fold, red	–	1725-287	2CKA001754A4353		0.145	1
5-fold, blue	–	1725-288	2CKA001754A4355		0.145	1
5-fold, white glass	–	1725-280	2CKA001754A4441		0.38	1
5-fold, entrée-grey	–	1725-291-500	2CKA001754A4475		0.145	1
5-fold, château-black	–	1725-295-500	2CKA001754A4495		0.145	1
5-fold, chalet-white	–	1725-296-500	2CKA001754A4490			1
5-fold, foyer-red	–	1725-297-500	2CKA001754A4480			1
5-fold, maison-beige	–	1725-299-500	2CKA001754A4485		0.145	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Frames

1721-838-500

Frames, Dynasty®
For vertical and horizontal installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1-fold, polished brass ivory	–	1721-838-500	2CKA001754A4560		0.28	1
1-fold, polished brass anthracite	–	1721-835-500	2CKA001754A4565		0.28	1
1-fold, polished brass decor ivory	–	1721-836-500	2CKA001754A4570		0.28	1
1-fold, polished brass decor anthracite	–	1721-833-500	2CKA001754A4575		0.286	1
1-fold, antique brass ivory	–	1721-848-500	2CKA001754A4580		0.28	1
1-fold, antique brass anthracite	–	1721-845-500	2CKA001754A4585		0.3	1
1-fold, antique brass decor ivory	–	1721-846-500	2CKA001754A4590		0.3	1
1-fold, antique brass decor anthracite	–	1721-843-500	2CKA001754A4595		0.3	1
1-fold, ivory	–	1721-832-500	2CKA001754A4600		0.042	1
1-fold, anthracite	–	1721-831-500	2CKA001754A4605		0.042	1
2-fold, polished brass ivory	–	1722-838-500	2CKA001754A4561		0.42	1
2-fold, polished brass anthracite	–	1722-835-500	2CKA001754A4566		0.42	1
2-fold, polished brass decor ivory	–	1722-836-500	2CKA001754A4571		0.42	1
2-fold, polished brass decor anthracite	–	1722-833-500	2CKA001754A4576		0.42	1
2-fold, antique brass ivory	–	1722-848-500	2CKA001754A4581		0.44	1
2-fold, antique brass anthracite	–	1722-845-500	2CKA001754A4586		0.44	1
2-fold, antique brass decor ivory	–	1722-846-500	2CKA001754A4591		0.42	1
2-fold, antique brass decor anthracite	–	1722-843-500	2CKA001754A4596		0.44	1
2-fold, ivory	–	1722-832-500	2CKA001754A4601		0.064	1
2-fold, anthracite	–	1722-831-500	2CKA001754A4606		0.064	1
3-fold, polished brass ivory	–	1723-838-500	2CKA001754A4562		0.54	1
3-fold, polished brass anthracite	–	1723-835-500	2CKA001754A4567		0.54	1
3-fold, polished brass decor ivory	–	1723-836-500	2CKA001754A4572		0.56	1
3-fold, polished brass decor anthracite	–	1723-833-500	2CKA001754A4577		0.56	1
3-fold, antique brass ivory	–	1723-848-500	2CKA001754A4582		0.56	1
3-fold, antique brass anthracite	–	1723-845-500	2CKA001754A4587		0.54	1
3-fold, antique brass decor ivory	–	1723-846-500	2CKA001754A4592		0.56	1
3-fold, antique brass decor anthracite	–	1723-843-500	2CKA001754A4597		0.56	1
3-fold, ivory	–	1723-832-500	2CKA001754A4602		0.096	1
3-fold, anthracite	–	1723-831-500	2CKA001754A4607		0.096	1

Continuation of table "Frames, Dynasty®"

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
4-fold, polished brass ivory	–	1724-838-500	2CKA001754A4563		0.7	1
4-fold, polished brass anthracite	–	1724-835-500	2CKA001754A4568		0.7	1
4-fold, polished brass decor ivory	–	1724-836-500	2CKA001754A4573		0.7	1
4-fold, polished brass decor anthracite	–	1724-833-500	2CKA001754A4578		0.7	1
4-fold, antique brass ivory	–	1724-848-500	2CKA001754A4583		0.72	1
4-fold, antique brass anthracite	–	1724-845-500	2CKA001754A4588		0.7	1
4-fold, antique brass decor ivory	–	1724-846-500	2CKA001754A4593		0.7	1
4-fold, antique brass decor anthracite	–	1724-843-500	2CKA001754A4598		0.72	1
4-fold, ivory	–	1724-832-500	2CKA001754A4603		0.28	1
4-fold, anthracite	–	1724-831-500	2CKA001754A4608		0.28	1
5-fold, polished brass ivory	–	1725-838-500	2CKA001754A4564		0.82	1
5-fold, polished brass anthracite	–	1725-835-500	2CKA001754A4569		0.82	1
5-fold, polished brass decor ivory	–	1725-836-500	2CKA001754A4574		0.82	1
5-fold, polished brass decor anthracite	–	1725-833-500	2CKA001754A4579		0.82	1
5-fold, antique brass ivory	–	1725-848-500	2CKA001754A4584		0.84	1
5-fold, antique brass anthracite	–	1725-845-500	2CKA001754A4589		0.82	1
5-fold, antique brass decor ivory	–	1725-846-500	2CKA001754A4594		0.84	1
5-fold, antique brass decor anthracite	–	1725-843-500	2CKA001754A4599		0.84	1
5-fold, ivory	–	1725-832-500	2CKA001754A4604		0.34	1
5-fold, anthracite	–	1725-831-500	2CKA001754A4609		0.34	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Busch-triton®

With freely programmable switch rockers, backlit label fields and IR sensor Busch-triton® is ideal for any application and with its elegant design it is commonly installed in hotels and public areas. Busch-triton® is equipped with an integrated bus coupler and IR receiver. The unit composed of control element and integrated bus coupler now really has everything required to control building systems elegantly and comfortably.

01

02

03

01 1/2gang control element with rear-illuminated labelling area and IR reception

02 3/6gang control element with rear-illuminated labelling area and IR reception

03 5/10gang control element with rear-illuminated labelling area and IR reception

Function
Switching | Dimming | Blinds | Value transmitter | Value dimming sensor | Light scene extension unit | Step-type switch | Short/long operation | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable | Freely programmable additional key

Function
Switching | Dimming | Blinds | Value transmitter | Value dimming sensor | Light scene extension unit | Step-type switch | Short/long operation | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable

Function
Switching | Dimming | Blinds | Value transmitter | Value dimming sensor | Light scene extension unit | Step-type switch | Short/long operation | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable | Freely programmable additional key

Colour-coordinated.

The Busch-triton® is available in five stunning colours, offering exactly the right ambience for any environment. The colours offer exactly the right accent to the carat®, impuls, alpha and future® linear ranges – such as the use of the colour-coordinated socket outlets or motion detectors.

01

Function
LCD display room temperature controller | Comfort | Stand-by | Night operation | Frost protection | Heating | Cooling | Fan control | Switching | Dimming | Blinds | Value | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable | Freely programmable additional key

02

Function
LCD display room temperature controller | Comfort | Stand-by | Night operation | Frost protection | Heating | Cooling | Fan control | Switching | Dimming | Blinds | Value | 13 freely programmable IR channels | 8 light scenes

Features
Labellable switch rockers | Rear-illuminated labelling field | Anti-theft protection | Freely programmable switches | IR remote-controllable | Freely programmable additional key

01 3/6gang control element with rear-illuminated labelling field, integrated room thermostat, LCD display and IR reception

02 5/10gang control element with rear-illuminated labelling field, integrated room thermostat, LCD display and IR reception

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Busch-triton®

6320/10-24G-500

Busch-triton® Control Element, 1/2-fold, FM
With intergrated bus coupling unit. With IR interface for Busch-remote controllers. Push button function: switching/dimming/blind/value sending/light scenes/step-type switch functions. Switch contacts left/right. One freely programmable LED per rocker (red/green/OFF). With labeling field.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6320/10-20-500	2CKA006320A0002		0.154	1
studio white, high gloss	–	6320/10-24G-500	2CKA006320A0004		0.154	1
palladium	–	6320/10-260-500	2CKA006320A0010		0.154	1
impuls						
champagne metallic	–	6320/10-79-500	2CKA006320A0006		0.154	1
future® linear						
aluminium silver	–	6320/10-83-500	2CKA006320A0008		0.154	1

6320/30-24G-500

Busch-triton® Control Element, 3/6-fold, FM
With intergrated bus coupling unit. With IR interface for Busch-remote controllers. Push button function: switching/dimming/blind/value sending/light scenes/step-type switch functions. Switch contacts left/right. One freely programmable LED per rocker (red/green/OFF). With labeling field.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6320/30-20-500	2CKA006320A0012		0.134	1
studio white, high gloss	–	6320/30-24G-500	2CKA006320A0014		0.134	1
palladium	–	6320/30-260-500	2CKA006320A0020		0.134	1
impuls						
champagne metallic	–	6320/30-79-500	2CKA006320A0016		0.134	1
future® linear						
aluminium silver	–	6320/30-83-500	2CKA006320A0018		0.134	1

6320/50-24G-500

Busch-triton® Control Element, 5/10-fold, FM
With intergrated bus coupling unit. With IR interface for Busch-remote controllers. Push button function: switching/dimming/blind/value sending/light scenes/step-type switch functions. Switch contacts left/right. One freely programmable LED per rocker (red/green/OFF). With labeling field.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6320/50-20-500	2CKA006320A0032		0.274	1
studio white, high gloss	–	6320/50-24G-500	2CKA006320A0034		0.274	1
palladium	–	6320/50-260-500	2CKA006320A0040		0.274	1
impuls						
champagne metallic	–	6320/50-79-500	2CKA006320A0036		0.274	1
future® linear						
aluminium silver	–	6320/50-83-500	2CKA006320A0038		0.274	1

6321/38-24G-500

Busch-triton® Control Element with Room Thermostat and 3/6-fold Switch Sensor, FM
With integrated KNX bus coupler. With labelling field. Rocker switch left/right (switching/dimming/blind/value sender/light scenes/fan function). Master/slave configuration. With base-load operation. Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a constant room temperature controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. To control up to 13 IR channels (RC5) using Busch-Remote control. IR mobile remote control 6010-25 or 6020-.../6021... . Control element: rocker switch left/right. Display elements: One LED per rocker via separate communication object for status (Red/Green/OFF) or orientation light. Connections: KNX-line: Bus connection terminal. Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6321/38-20-500	2CKA006320A0052		0.169	1
studio white, high gloss	–	6321/38-24G-500	2CKA006320A0054		0.169	1
palladium	–	6321/38-260-500	2CKA006320A0060		0.169	1
impuls						
champagne metallic	–	6321/38-79-500	2CKA006320A0056		0.169	1
future® linear						
aluminium silver	–	6321/38-83-500	2CKA006320A0058		0.169	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Busch-triton®

6321/58-24G-500

**Busch-triton® Control Element with Room Thermostat
and 5/10-fold Switch Sensor, FM**
With integrated KNX bus coupler. With labelling field. Rocker switch left/right (switching/
dimming/blind/value sender/light scenes/fan function). Master/slave configuration. With
base-load operation. Control element with room thermostat function for triggering the
heating, ventilation and fan-coil actuators. The controller is a constant room temperature
controller for ventilator convectors (fan coils) in 2-pipe and 4-pipe systems and conventional
heating or cooling systems. The fan stage can be switched manually or in automatic mode.
To control up to 13 IR channels (RC5) using Busch-Remote control IR mobile remote control
6010-25 or 6020-.../6021... . Control element: rocker switch left/right. Display elements: One
LED per rocker via separate communication object for status (Red/ Green/ OFF) or orienta-
tion light. Connections: KNX-line: Bus connection terminal. Protection class (Device): IP 20.
Temperature range (Device): – 5 °C to 45 °C. Dimensions: (L x W x D): 159 mm x 90 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha						
platinum	–	6321/58-20-500	2CKA006320A0062		0.278	1
studio white, high gloss	–	6321/58-24G-500	2CKA006320A0064		0.278	1
palladium	–	6321/58-260-500	2CKA006320A0070		0.278	1
impuls						
champagne metallic	–	6321/58-79-500	2CKA006320A0066		0.278	1
future® linear						
aluminium silver	–	6321/58-83-500	2CKA006320A0068		0.278	1

6010-25-500

Infra-Red Hand Held Transmitter
For infra-red receiver and KNX flush-mounted infra-red interface. Switching and dimming of
up to 10 consumers in 2 groups (1-5/6-10). Programming and selection of 2 MEMO memories
per group is possible. Power supply: 4 alkaline manganese batteries, IEC LR03 (microcell) not
included in scope of supply Detection range: frontal 15 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6010-25-500	2CKA006020A1133		0.18	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges – Push Button Coupling Unit

The push-button coupling unit with a centre position offers maximum flexibility. Installed in a flush-mounted wall box, it accepts switch rockers from

conventional switch ranges* like a completely standard flush-mounted insert. Covers from all conventional ranges can now be used for KNX. This

offers maximum freedom in the selection of the switch range and makes retrofitting easier.

01 02
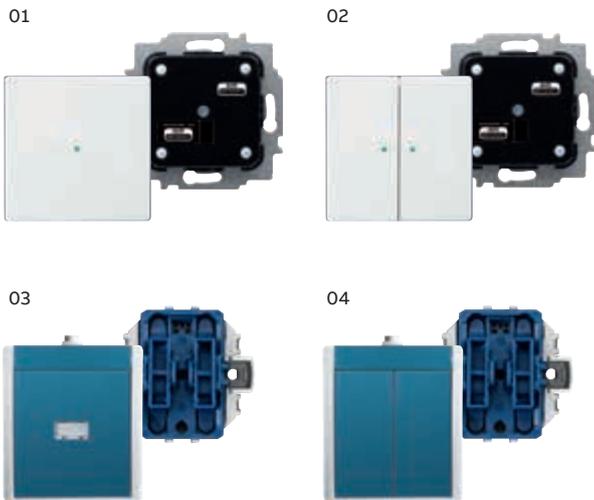
Features

Easy mounting and uncomplicated commissioning

All flush-mounted switch ranges* can be used for the ABB i-bus® KNX

Affordable solution for renovations

Status/orientation light (red/green/OFF)

(only with 1gang push-button/switches)

Integration in surface-mounted water protected units

03 04

01   Push-button coupler 2gang with integrated bus coupler

02   Push-button coupler 4gang with integrated bus coupler

03   Push-button coupler 2gang for ocean with integrated bus coupler

04   Push-button coupler 4gang for ocean with integrated bus coupler

Design without limits. The push-button coupling unit includes the complete range* of switches for KNX. Switch rockers from all switch ranges can now be converted to KNX push buttons, which not only switch on and off but also dim or show the status with an LED (6108/01 and 6108/04 only). 1gang and 2gang models for single and 2gang switch rockers are available.

KNX – water protected
The push-button coupling unit also allows special products to be used for KNX. Special models for water-protected installation allow covers from, for example, the ocean® surface-mounted range to be used. This means that KNX sensors can also be safely installed in a cellar, outside on a patio or in commercial applications. Temperature range: -25 °C to 45 °C

*except impuls, basic55® and All Weather 44 Busch-Jaeger switch ranges only available for selected markets. For further information please contact your local ABB office.

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Push Button Coupling Unit

6108/06-AP-500

KNX Switch Connection Unit for design ocean® (IP44), FM
For contacting conventional 1gang rocker switches. With middle position. For inserting in the ocean surface-mounted housing. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1/2-fold	–	6108/06-AP-500	2CKA006133A0225		0.1	1
2/4-fold	–	6108/07-AP-500	2CKA006133A0227		0.091	1

6108/06-500

Push-button coupling 2gang with integrated bus coupler
Support of KNX functions through innovative colour concept yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/06-500	2CKA006133A0221		0.06	1
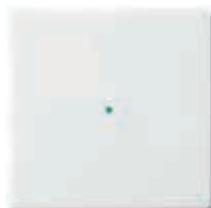
SR-1-84

Rocker 1gang, without printing
As cover for KNX 2gang push-button coupling unit (6108/06-500).

| Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SR-1-212	2CKA006220A0182		0.017	1
alpine white	–	SR-1-214	2CKA006220A0183		0.017	1
future® linear						
anthracite	–	SR-1-81	2CKA006220A0137		0.017	1
ivory	–	SR-1-82	2CKA006220A0516		0.018	1
aluminium silver	–	SR-1-83	2CKA006220A0138		0.017	1
studio white	–	SR-1-84	2CKA006220A0139		0.017	1
studio white matt	–	SR-1-884	2CKA006220A0601		0.018	1
black, matt	–	SR-1-885	2CKA006220A0618		0.018	1
solo®						
ivory	–	SR-1-82	2CKA006220A0516		0.018	1
studio white	–	SR-1-84	2CKA006220A0139		0.017	1
grey metallic	–	SR-1-803	2CKA006220A0550		0.018	1
Busch-axcent®						
studio white	–	SR-1-84	2CKA006220A0139		0.017	1
pure stainless steel						
stainless steel	–	SR-1-866	2CKA006220A0533		0.016	1
carat®						
anthracite	–	SR-1-81	2CKA006220A0137		0.017	1
ivory	–	SR-1-82	2CKA006220A0516		0.018	1
studio white	–	SR-1-84	2CKA006220A0139		0.017	1
Dynasty®						
anthracite	–	SR-1-81	2CKA006220A0137		0.017	1
ivory	–	SR-1-82	2CKA006220A0516		0.018	1
antique brass	–	SR-1-840	2CKA006220A0371		0.018	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Push Button Coupling Unit

SRL-1-84

Rocker 1gang, with "Light" icon
As cover for KNX 2gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SRL-1-212	2CKA006220A0184		0.013	1
alpine white	–	SRL-1-214	2CKA006220A0185		0.013	1
future® linear						
anthracite	–	SRL-1-81	2CKA006220A0140		0.017	1
ivory	–	SRL-1-82	2CKA006220A0517		0.014	1
aluminium silver	–	SRL-1-83	2CKA006220A0141		0.017	1
studio white	–	SRL-1-84	2CKA006220A0142		0.017	1
studio white matt	–	SRL-1-884	2CKA006220A0602		0.018	1
black, matt	–	SRL-1-885	2CKA006220A0619		0.018	1
solo®						
ivory	–	SRL-1-82	2CKA006220A0517		0.014	1
studio white	–	SRL-1-84	2CKA006220A0142		0.017	1
grey metallic	–	SRL-1-803	2CKA006220A0551		0.018	1
Busch-axcent®						
studio white	–	SRL-1-84	2CKA006220A0142		0.017	1
pure stainless steel						
stainless steel	–	SRL-1-866	2CKA006220A0534		0.014	1
carat®						
anthracite	–	SRL-1-81	2CKA006220A0140		0.017	1
ivory	–	SRL-1-82	2CKA006220A0517		0.014	1
studio white	–	SRL-1-84	2CKA006220A0142		0.017	1
Dynasty®						
anthracite	–	SRL-1-81	2CKA006220A0140		0.017	1
ivory	–	SRL-1-82	2CKA006220A0517		0.014	1
antique brass	–	SRL-1-840	2CKA006220A0372		0.018	1

SRB-1-84

Rocker 1gang, with "Blind" icon
As cover for KNX 2gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SRB-1-212	2CKA006220A0186		0.013	1
alpine white	–	SRB-1-214	2CKA006220A0187		0.013	1
future® linear						
anthracite	–	SRB-1-81	2CKA006220A0143		0.013	1
ivory	–	SRB-1-82	2CKA006220A0518		0.014	1
aluminium silver	–	SRB-1-83	2CKA006220A0144		0.017	1
studio white	–	SRB-1-84	2CKA006220A0145		0.017	1
studio white matt	–	SRB-1-884	2CKA006220A0603		0.018	1
black, matt	–	SRB-1-885	2CKA006220A0620		0.018	1
solo®						
ivory	–	SRB-1-82	2CKA006220A0518		0.014	1
studio white	–	SRB-1-84	2CKA006220A0145		0.017	1
grey metallic	–	SRB-1-803	2CKA006220A0552		0.018	1
Busch-axcent®						
studio white	–	SRB-1-84	2CKA006220A0145		0.017	1
pure stainless steel						
stainless steel	–	SRB-1-866	2CKA006220A0535		0.014	1
carat®						
anthracite	–	SRB-1-81	2CKA006220A0143		0.013	1
ivory	–	SRB-1-82	2CKA006220A0518		0.014	1
studio white	–	SRB-1-84	2CKA006220A0145		0.017	1
Dynasty®						
anthracite	–	SRB-1-81	2CKA006220A0143		0.013	1
ivory	–	SRB-1-82	2CKA006220A0518		0.014	1
antique brass	–	SRB-1-840	2CKA006220A0373		0.018	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Push Button Coupling Unit

SRS-1-84

Rocker 1gang, with "Scene" icon
As cover for KNX 2gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SRS-1-212	2CKA006220A0188		0.013	1
alpine white	–	SRS-1-214	2CKA006220A0189		0.013	1
future® linear						
anthracite	–	SRS-1-81	2CKA006220A0146		0.017	1
ivory	–	SRS-1-82	2CKA006220A0519		0.014	1
aluminium silver	–	SRS-1-83	2CKA006220A0147		0.017	1
studio white	–	SRS-1-84	2CKA006220A0148		0.017	1
studio white matt	–	SRS-1-884	2CKA006220A0604		0.018	1
black, matt	–	SRS-1-885	2CKA006220A0621		0.018	1
solo®						
ivory	–	SRS-1-82	2CKA006220A0519		0.014	1
studio white	–	SRS-1-84	2CKA006220A0148		0.017	1
grey metallic	–	SRS-1-803	2CKA006220A0553		0.015	1
Busch-axcent®						
studio white	–	SRS-1-84	2CKA006220A0148		0.017	1
pure stainless steel						
stainless steel	–	SRS-1-866	2CKA006220A0536		0.01	1
carat®						
anthracite	–	SRS-1-81	2CKA006220A0146		0.017	1
ivory	–	SRS-1-82	2CKA006220A0519		0.014	1
studio white	–	SRS-1-84	2CKA006220A0148		0.017	1
Dynasty®						
anthracite	–	SRS-1-81	2CKA006220A0146		0.017	1
ivory	–	SRS-1-82	2CKA006220A0519		0.014	1
antique brass	–	SRS-1-840	2CKA006220A0374		0.018	1

SRD-1-84

Rocker 1gang, with "Dimmer" icon
As cover for KNX 2gang push-button coupling unit (6108/06-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	SRD-1-212	2CKA006220A0190		0.013	1
alpine white	–	SRD-1-214	2CKA006220A0191		0.013	1
future® linear						
anthracite	–	SRD-1-81	2CKA006220A0149		0.017	1
ivory	–	SRD-1-82	2CKA006220A0520		0.014	1
aluminium silver	–	SRD-1-83	2CKA006220A0150		0.017	1
studio white	–	SRD-1-84	2CKA006220A0151		0.017	1
studio white matt	–	SRD-1-884	2CKA006220A0605		0.018	1
black, matt	–	SRD-1-885	2CKA006220A0622		0.018	1
solo®						
ivory	–	SRD-1-82	2CKA006220A0520		0.014	1
studio white	–	SRD-1-84	2CKA006220A0151		0.017	1
grey metallic	–	SRD-1-803	2CKA006220A0554		0.018	1
Busch-axcent®						
studio white	–	SRD-1-84	2CKA006220A0151		0.017	1
pure stainless steel						
stainless steel	–	SRD-1-866	2CKA006220A0537		0.018	1
carat®						
anthracite	–	SRD-1-81	2CKA006220A0149		0.017	1
ivory	–	SRD-1-82	2CKA006220A0520		0.014	1
studio white	–	SRD-1-84	2CKA006220A0151		0.017	1
Dynasty®						
anthracite	–	SRD-1-81	2CKA006220A0149		0.017	1
ivory	–	SRD-1-82	2CKA006220A0520		0.014	1
antique brass	–	SRD-1-840	2CKA006220A0375		0.018	1

6108/07-500

Push-button coupling 4gang with integrated bus coupler
Support of KNX functions through innovative colour concept yellow = lighting, blue = blind, orange = RTC, magenta = scene and white = neutral/no function assigned) or standard illumination red/green. With middle position. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/07-500	2CKA006133A0223		0.075	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Push Button Coupling Unit

SR-2-84

SRB-2-84

			Rocker 2gang left/right, without printing		Rocker 2gang left/right, with "Blind" icon	
			As cover for KNX 4gang push-button coupling unit (6108/07-500).		As cover for KNX 4gang push-button coupling unit (6108/07-500).	
Pack unit pc.	Weight 1 pc. kg	Description	Order details	Price 1 pc.	Order details	Price 1 pc.
			Type	Order code	Type	Order code
		Reflex SI				
		white	SR-2-212	2CKA006220A0192	SRB-2-212	2CKA006220A0196
		alpine white	SR-2-214	2CKA006220A0193	SRB-2-214	2CKA006220A0197
		future® linear				
		anthracite	SR-2-81	2CKA006220A0152	SRB-2-81	2CKA006220A0158
		ivory	SR-2-82	2CKA006220A0521	SRB-2-82	2CKA006220A0523
		aluminium silver	SR-2-83	2CKA006220A0153	SRB-2-83	2CKA006220A0159
		studio white	SR-2-84	2CKA006220A0154	SRB-2-84	2CKA006220A0160
		studio white matt	SR-2-884	2CKA006220A0606	SRB-2-884	2CKA006220A0608
		black, matt	SR-2-885	2CKA006220A0623	SRB-2-885	2CKA006220A0625
		solo®				
		ivory	SR-2-82	2CKA006220A0521	SRB-2-82	2CKA006220A0523
		studio white	SR-2-84	2CKA006220A0154	SRB-2-84	2CKA006220A0160
		grey metallic	SR-2-803	2CKA006220A0555	SRB-2-803	2CKA006220A0557
		Busch-axcent®				
		studio white	SR-2-84	2CKA006220A0154	SRB-2-84	2CKA006220A0160
		pure stainless steel				
		stainless steel	SR-2-866	2CKA006220A0538	SRB-2-866	2CKA006220A0540
		carat®				
		anthracite	SR-2-81	2CKA006220A0152	SRB-2-81	2CKA006220A0158
		ivory	SR-2-82	2CKA006220A0521	SRB-2-82	2CKA006220A0523
		studio white	SR-2-84	2CKA006220A0154	SRB-2-84	2CKA006220A0160
		Dynasty®				
		anthracite	SR-2-81	2CKA006220A0152	SRB-2-81	2CKA006220A0158
		ivory	SR-2-82	2CKA006220A0521	SRB-2-82	2CKA006220A0523
		antique brass	SR-2-840	2CKA006220A0376	SRB-2-840	2CKA006220A0378

SRL-2-L-84   **SRL-2-R-84**

			Rocker 2gang left, with "Light" icon As cover for KNX 4gang push-button coupling unit (6108/07-500).		Price 1 pc.	Rocker 2gang right, with "Light" icon As cover for KNX 4gang push-button coupling unit (6108/07-500).		Price 1 pc.
Pack unit pc.	Weight 1 pc. kg	Description	Order details		Price 1 pc.	Order details		Price 1 pc.
			Type	Order code		Type	Order code	
		Reflex SI						
		white	SRL-2-L-212	2CKA006220A0194		SRL-2-R-212	2CKA006220A0202	
		alpine white	SRL-2-L-214	2CKA006220A0195		SRL-2-R-214	2CKA006220A0203	
		future® linear						
		anthracite	SRL-2-L-81	2CKA006220A0155		SRL-2-R-81	2CKA006220A0167	
		ivory	SRL-2-L-82	2CKA006220A0522		SRL-2-R-82	2CKA006220A0527	
		aluminium silver	SRL-2-L-83	2CKA006220A0156		SRL-2-R-83	2CKA006220A0168	
		studio white	SRL-2-L-84	2CKA006220A0157		SRL-2-R-84	2CKA006220A0169	
		studio white matt	SRL-2-L-884	2CKA006220A0607		SRL-2-R-884	2CKA006220A0612	
		black, matt	SRL-2-L-885	2CKA006220A0624		SRL-2-R-885	2CKA006220A0629	
		solo®						
		ivory	SRL-2-L-82	2CKA006220A0522		SRL-2-R-82	2CKA006220A0527	
		studio white	SRL-2-L-84	2CKA006220A0157		SRL-2-R-84	2CKA006220A0169	
		grey metallic	SRL-2-L-803	2CKA006220A0556		SRL-2-R-803	2CKA006220A0561	
		Busch-axcent®						
		studio white	SRL-2-L-84	2CKA006220A0157		SRL-2-R-84	2CKA006220A0169	
		pure stainless steel						
		stainless steel	SRL-2-L-866	2CKA006220A0539		SRL-2-R-866	2CKA006220A0544	
		carat®						
		anthracite	SRL-2-L-81	2CKA006220A0155		SRL-2-R-81	2CKA006220A0167	
		ivory	SRL-2-L-82	2CKA006220A0522		SRL-2-R-82	2CKA006220A0527	
		studio white	SRL-2-L-84	2CKA006220A0157		SRL-2-R-84	2CKA006220A0169	
		Dynasty®						
		anthracite	SRL-2-L-81	2CKA006220A0155		SRL-2-R-81	2CKA006220A0167	
		ivory	SRL-2-L-82	2CKA006220A0522		SRL-2-R-82	2CKA006220A0527	
		antique brass	SRL-2-L-840	2CKA006220A0377		SRL-2-R-840	2CKA006220A0381	

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Push Button Coupling Unit

SRS-2-L-84

SRS-2-R-84

Pack unit pc.	Weight 1 pc. kg	Description	Rocker 2gang left, with "Scene" icon As cover for KNX 4gang push-button coupling unit (6108/07-500).		Price 1 pc.	Rocker 2gang right, with "Scene" icon As cover for KNX 4gang push-button coupling unit (6108/07-500).		Price 1 pc.
			Order details			Order details		
			Type	Order code		Type	Order code	
		Reflex SI						
		white	SRS-2-L-212	2CKA006220A0198		SRS-2-R-212	2CKA006220A0206	
		alpine white	SRS-2-L-214	2CKA006220A0199		SRS-2-R-214	2CKA006220A0207	
		future® linear						
		anthracite	SRS-2-L-81	2CKA006220A0161		SRS-2-R-81	2CKA006220A0173	
		ivory	SRS-2-L-82	2CKA006220A0524		SRS-2-R-82	2CKA006220A0528	
		aluminium silver	SRS-2-L-83	2CKA006220A0162		SRS-2-R-83	2CKA006220A0174	
		studio white	SRS-2-L-84	2CKA006220A0163		SRS-2-R-84	2CKA006220A0175	
		studio white matt	SRS-2-L-884	2CKA006220A0609		SRS-2-R-884	2CKA006220A0613	
		black, matt	SRS-2-L-885	2CKA006220A0626		SRS-2-R-885	2CKA006220A0630	
		solo®						
		ivory	SRS-2-L-82	2CKA006220A0524		SRS-2-R-82	2CKA006220A0528	
		studio white	SRS-2-L-84	2CKA006220A0163		SRS-2-R-84	2CKA006220A0175	
		grey metallic	SRS-2-L-803	2CKA006220A0558		SRS-2-R-803	2CKA006220A0562	
		Busch-axcent®						
		studio white	SRS-2-L-84	2CKA006220A0163		SRS-2-R-84	2CKA006220A0175	
		pure stainless steel						
		stainless steel	SRS-2-L-866	2CKA006220A0541		SRS-2-R-866	2CKA006220A0545	
		carat®						
		anthracite	SRS-2-L-81	2CKA006220A0161		SRS-2-R-81	2CKA006220A0173	
		ivory	SRS-2-L-82	2CKA006220A0524		SRS-2-R-82	2CKA006220A0528	
		studio white	SRS-2-L-84	2CKA006220A0163		SRS-2-R-84	2CKA006220A0175	
		Dynasty®						
		anthracite	SRS-2-L-81	2CKA006220A0161		SRS-2-R-81	2CKA006220A0173	
		ivory	SRS-2-L-82	2CKA006220A0524		SRS-2-R-82	2CKA006220A0528	
		antique brass	SRS-2-L-840	2CKA006220A0379		SRS-2-R-840	2CKA006220A0382	

SRD-2-L-84   **SRD-2-R-84**

			Rocker 2gang left, with "Dimmer" icon			Rocker 2gang right, with "Dimmer" icon		
			As cover for KNX 4gang push-button coupling unit (6108/07-500).			As cover for KNX 4gang push-button coupling unit (6108/07-500).		
Pack unit pc.	Weight 1 pc. kg	Description	Order details		Price 1 pc.	Order details		Price 1 pc.
			Type	Order code		Type	Order code	
		Reflex SI						
		white	SRD-2-L-212	2CKA006220A0200		SRD-2-R-212	2CKA006220A0261	
		alpine white	SRD-2-L-214	2CKA006220A0201		SRD-2-R-214	2CKA006220A0262	
		future® linear						
		anthracite	SRD-2-L-81	2CKA006220A0164		SRD-2-R-81	2CKA006220A0258	
		ivory	SRD-2-L-82	2CKA006220A0525		SRD-2-R-82	2CKA006220A0526	
		aluminium silver	SRD-2-L-83	2CKA006220A0165		SRD-2-R-83	2CKA006220A0259	
		studio white	SRD-2-L-84	2CKA006220A0166		SRD-2-R-84	2CKA006220A0260	
		studio white matt	SRD-2-L-884	2CKA006220A0610		SRD-2-R-884	2CKA006220A0611	
		black, matt	SRD-2-L-885	2CKA006220A0627		SRD-2-R-885	2CKA006220A0628	
		solo®						
		ivory	SRD-2-L-82	2CKA006220A0525		SRD-2-R-82	2CKA006220A0526	
		studio white	SRD-2-L-84	2CKA006220A0166		SRD-2-R-84	2CKA006220A0260	
		grey metallic	SRD-2-L-803	2CKA006220A0559		SRD-2-R-803	2CKA006220A0560	
		Busch-axcent®						
		studio white	SRD-2-L-84	2CKA006220A0166		SRD-2-R-84	2CKA006220A0260	
		pure stainless steel						
		stainless steel	SRD-2-L-866	2CKA006220A0542		SRD-2-R-866	2CKA006220A0543	
		carat®						
		anthracite	SRD-2-L-81	2CKA006220A0164		SRD-2-R-81	2CKA006220A0258	
		ivory	SRD-2-L-82	2CKA006220A0525		SRD-2-R-82	2CKA006220A0526	
		studio white	SRD-2-L-84	2CKA006220A0166		SRD-2-R-84	2CKA006220A0260	
		Dynasty®						
		anthracite	SRD-2-L-81	2CKA006220A0164		SRD-2-R-81	2CKA006220A0258	
		ivory	SRD-2-L-82	2CKA006220A0525		SRD-2-R-82	2CKA006220A0526	
		antique brass	SRD-2-L-840	2CKA006220A0380		SRD-2-R-840	2CKA006220A0383	

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges

6108/60-500

Control Element, 6gang with Universal Input, 5gang
Control element with a maximum of 6 control functions and an RTC extension unit (slave). Primary function for calling up the main function. Status bar for indication/display of operating or RTC functions. Operation is carried out via cover plate 6108/61-xxx. With actual value temperature display. With display of set-value temperature. With universal input with: - max. of 5 binary inputs - 4 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V - 2 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V and an external temperature sensor PT1000 / T6226. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/60-500	2CKA006115A0454			1
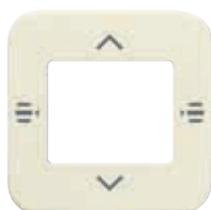
6108/61-212-500

Cover Plate for KNX Control Element, 7gang
As cover for control element, 7gang (6108/60).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6108/61-212-500	2CKA006115A0474		0.012	1
alpine white	–	6108/61-214-500	2CKA006115A0475		0.012	1
platinum	–	6108/61-20-500	2CKA006115A0476		0.016	1
bronze	–	6108/61-21-500	2CKA006115A0477		0.016	1
ivory/white	–	6108/61-22G-500	2CKA006115A0478		0.016	1
studio white matt	–	6108/61-24-500	2CKA006115A0479		0.016	1
studio white	–	6108/61-24G-500	2CKA006115A0480		0.016	1
palladium	–	6108/61-260-500	2CKA006115A0481		0.016	1
titanium	–	6108/61-266-500	2CKA006115A0482		0.016	1
anthracite	–	6108/61-81-500	2CKA006115A0483		0.018	1
ivory white	–	6108/61-82-500	2CKA006115A0484		0.018	1
aluminium silver	–	6108/61-83-500	2CKA006115A0485		0.018	1
studio white	–	6108/61-84-500	2CKA006115A0486		0.018	1
studio white matt	–	6108/61-884-500	2CKA006115A0487		0.018	1
black matt	–	6108/61-885-500	2CKA006115A0488		0.018	1
grey metallic	–	6108/61-803-500	2CKA006115A0489		0.02	1
stainless steel	–	6108/61-866-500	2CKA006115A0492		0.018	1
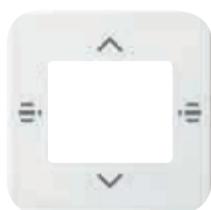
6108/61-914

Cover Plate, Control Element, 7gang
As cover for control element, 7gang (6108/60).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6108/61-914	2CKA006155A0115			1
stainless steel	–	6108/61-840-500	2CKA006155A0121		0.018	1

6109/05-500

Room Temperature Controller with 5gang Universal Input, FM

Room temperature controller without "local control" and without internal temperature sensor. With universal input with: - max. of 5 binary inputs - 4 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V - 2 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V and an external temperature sensor PT1000 / T6226. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6109/05-500	2CKA006181A0013		0.08	1

6109/08-500

Room Temperature Controller, Commercial, with 5gang Universal Input, FM

Room thermostat without "local control" incl. insert for centre plate for cooling element. With universal input with: - max. of 5 binary inputs - 4 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V - 2 binary inputs and 1 analogue input for activating sensors with external power supply 1-10 V/0-10 V and an external temperature sensor PT1000 / T6226. Can only be used with a cover plate 2114-xxx or 6541-xxx, with the exception of 6541-20. -21.-260 and -266. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block. Class of temperature controller 1 Contribution to space heating energy efficiency 1,0%.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6109/08-500	2CKA006134A0313		0.138	1

6108/08-500

Room Temperature Controller, Commercial, FM

Room thermostat without "local operation" incl. insert for centre plate for cooling element. For controlling commercially available valve drives. Can only be used with a cover plate 2114-xxx or 6541-xxx, with the exception of 6541-20. -21.-260 and -266. For control of up to 5-level ventilation actuators Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/08-500	2CKA006134A0308		0.075	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges

6541-84

Cover Plate for Room Temperature Controller, Commercial
For room temperature controller, commercial.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear						
anthracite	–	6541-81	2CKA006599A2882		0.022	10
savanna/ivory	–	6541-82	2CKA006599A2832		0.022	10
aluminium silver [1]	–	6541-83	2CKA006599A2885		0.022	10
davos/studio white	–	6541-84	2CKA006599A2835		0.022	10
studio white, matt [1]	–	6541-884	2CKA006599A2962		0.022	10
black matt [1]	–	6541-885	2CKA006599A2967		0.022	10
solo®						
savanna/ivory	–	6541-82	2CKA006599A2832		0.022	10
davos/studio white	–	6541-84	2CKA006599A2835		0.022	10
meteor/grey metallic [1]	–	6541-803	2CKA006599A2940		0.022	10
carat®						
anthracite	–	6541-81	2CKA006599A2882		0.022	10
savanna/ivory	–	6541-82	2CKA006599A2832		0.022	10
davos/studio white	–	6541-84	2CKA006599A2835		0.022	10
pure stainless steel [1]						
stainless steel	–	6541-866	2CKA006599A2924		0.018	10
Busch-axcent®						
davos/studio white	–	6541-84	2CKA006599A2835		0.022	10
alpha						
ivory	–	6541-22G	2CKA006599A2795		0.02	10
studio white, matt	–	6541-24	2CKA006599A1557		0.02	10
studio white, high gloss	–	6541-24G	2CKA006599A2332		0.02	10
Platinum	–	6541-20	2CKA006599A1466		0.02	10
Bronze	–	6541-21	2CKA006599A1524		0.02	10
palladium	–	6541-260	2CKA006599A2853		0.02	10
titanium	–	6541-266	2CKA006599A2856		0.02	10
impuls						
alpine white	–	6541-74	2CKA006599A2076		0.019	
champagne metallic	–	6541-79	2CKA006599A2142		0.019	
ivory	–	6541-72	2CKA006599A2918		0.019	
studio white matt	–	6541-774	2CKA006599A2971		0.019	
black matt	–	6541-775	2CKA006599A2975		0.019	
blackberry	–	6541-777	2CKA006599A2933		0.024	
aluminium silver	–	6541-783	2CKA006599A2919		0.019	
Busch-Duro 2000® SI						
white (SI-Series)	–	2114-212	2CKA006599A1193		0.016	10

[1] Surface painted

2114-214

Cover Plate for Temperature Controller, Commercial

For room temperature controller, commercial.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
alpine white (SI-Series)	–	2114-214-500	2CKA006599A3008		0.02	10

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges – Room Temperature Controller

6108/18-500

Room thermostat, heating/cooling operation

Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. For controlling commercially available valve drives. With display of set-value temperature. Master/slave configuration. With base-load operation. The bus can be connected via enclosed terminal block.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6108/18-500	2CKA006134A0319		0.08	1

CP-FCC-212

Cover plate for room thermostat

As cover for KNX room temperature controller (6108/18-500).
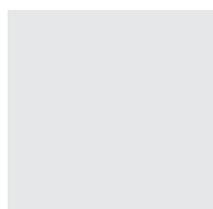
Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	CP-FCC-212	2CKA006220A0245		0.012	1
alpine white	–	CP-FCC-214	2CKA006220A0246		0.012	1
future® linear						
anthracite	–	CP-FCC-81	2CKA006220A0242		0.016	1
ivory	–	CP-FCC-82	2CKA006220A0532		0.016	1
aluminium silver	–	CP-FCC-83	2CKA006220A0243		0.016	1
studio white	–	CP-FCC-84	2CKA006220A0244		0.015	1
studio white matt	–	CP-FCC-884	2CKA006220A0617		0.016	1
black, matt	–	CP-FCC-885	2CKA006220A0634		0.016	1
solo®						
ivory	–	CP-FCC-82	2CKA006220A0532		0.016	1
studio white	–	CP-FCC-84	2CKA006220A0244		0.015	1
grey metallic	–	CP-FCC-803	2CKA006220A0566		0.016	1
Busch-axcent®						
studio white	–	CP-FCC-84	2CKA006220A0244		0.015	1
pure stainless steel						
stainless steel	–	CP-FCC-866	2CKA006220A0549		0.016	1
carat®						
anthracite	–	CP-FCC-81	2CKA006220A0242		0.016	1
ivory	–	CP-FCC-82	2CKA006220A0532		0.016	1
studio white	–	CP-FCC-84	2CKA006220A0244		0.015	1
Dynasty®						
anthracite	–	CP-FCC-81	2CKA006220A0242		0.016	1
ivory	–	CP-FCC-82	2CKA006220A0532		0.016	1

6109/18-500

Room temperature controller with 5gang universal input, FM
Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. With display of set-value temperature, master/slave configuration and base load operation. With universal inputs: a) max. of 5 binary inputs b) 4 binary inputs and 1 analogue input for activating sensors with external power supply 1 – 10 V/0 – 10 V or c) 2 binary inputs and 1 analogue input for activating sensors with external power supply 1 – 10 V/0 – 10 V and an external temperature sensor PT1000/T6226.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6109/18-500	2CKA006134A0315		0.144	1

6109/28-500

Room temperature controller with CO$_2$/moisture sensor, FM
Control element with room thermostat function and CO$_2$ moisture/air pressure sensor or triggering the heating, ventilation and fan-coil actuators. With display of set-value temperature, master/slave configuration and base load operation. With universal inputs:
a) max. of 5 binary inputs b) 4 binary inputs and 1 analogue input for activating sensors with external power supply 1 – 10 V/0 – 10 V or c) 2 binary inputs and 1 analogue input for activating sensors with external power supply 1 – 10 V/0 – 10 V and an external temperature sensor PT1000/T6226.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6109/28-500	2CKA006134A0317		0.122	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Room Temperature Controller

6109/03-214-500

Cover plate for room thermostat
As cover for KNX room temperature controller (6108/18-500).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Reflex SI						
white	–	6109/03-212-500	2CKA006155A0051		0.018	1
alpine white	–	6109/03-214-500	2CKA006155A0052		0.018	1
future® linear						
anthracite	–	6109/03-81-500	2CKA006155A0060		0.018	1
ivory/white	–	6109/03-82-500	2CKA006155A0061		0.018	1
aluminium silver	–	6109/03-83-500	2CKA006155A0062		0.018	1
studio white	–	6109/03-84-500	2CKA006155A0063		0.018	1
studio white matt	–	6109/03-884-500	2CKA006155A0064		0.018	1
black, matt	–	6109/03-885-500	2CKA006155A0065		0.018	1
solo®						
ivory/white	–	6109/03-82-500	2CKA006155A0061		0.018	1
studio white	–	6109/03-84-500	2CKA006155A0063		0.018	1
grey metallic	–	6109/03-803-500	2CKA006155A0066		0.018	1
Busch-axcent®						
studio white	–	6109/03-84-500	2CKA006155A0063		0.018	1
pure stainless steel						
stainless steel	–	6109/03-866-500	2CKA006155A0069		0.018	1
carat®						
anthracite	–	6109/03-81-500	2CKA006155A0060		0.018	1
ivory/white	–	6109/03-82-500	2CKA006155A0061		0.018	1
studio white	–	6109/03-84-500	2CKA006155A0063		0.018	1
Dynasty®						
anthracite	–	6109/03-81-500	2CKA006155A0060		0.018	1
ivory/white	–	6109/03-82-500	2CKA006155A0061		0.018	1
antique brass	–	6109/03-840-500	2CKA006155A0114		0.018	1

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ABB-tacteo KNX
The individual touch

Unique in design and function, the intuitive and individually configurable ABB-tacteo KNX sensor is as extraordinary as you are. The impressive, high-quality black or white glass sensor with its capacitive user interface offers virtually unlimited possibilities for intelligent building networking. Heating, ventilation, blinds and lighting can all be controlled to create comfortable everyday situations and put intelligent building management firmly in your hands. Discover more details at **abb.com/tacteo**

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Millenium

The Millenium collection is the first metal range to incorage the KNX system, the most intelligent way of managing spaces and optimizing

performance in terms of energy savings. Millenium is based on a combinable concept which creates a very comprehensive range, suitable for

any types of needs. This makes it the ideal collection for all types of homes, hotels, offices and shops.

| 01 | 02 | 03 |

01 Switch Sensor 2gang KNX

02 Switch Sensor 4gang KNX

03 Switch Sensor 6gang KNX

04 Switch Sensor 6gang KNX
    with IR

05 Busch watchdog 180° KNX

06 Room Thermostat KNX

Function
Switching | Dimming | Blinds | Sending values | Scenes etc.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

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Switching | Dimming | Blinds | Sending values | Scenes etc.

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Function
Switching | Dimming | Blinds | Sending values | Scenes etc.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

Wide range. Millenium range offers special mounting plates for KNX sensors to reduce the height and improve the aesthetics for ultra slim design. The KNX sensors allow to replace the buttons with desired symbols in order to adjust the sensors to specific design and needs like light, blind, scene, RTC or fan coil. Millenium offers a wide and elegant choice of finishes in stainless steel material: from the Brush Stainless Steel, to the soft touch given by the Silk Black, and the luxury of the sophisticated gold finishes, Matt Gold and Antique Gold.

04

Function
Switching | Dimming | Blinds | Sending values | Scenes etc. | 6gang sensor with IR.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

05

Function
Movement sensor with up to four channels.
Detection range: frontal: 6 m, lateral: 6 m
Detection angle: 180 °
Brightness limit value:
5 Lux - 150 Lux
Mounting height: 1.1 m

06

Function
Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for Fan Coil units in 2- and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode.

The Millenium range is only available in the following countries: China, Dubai, India, Kuweit, Oman, Qatar, Saudi Arabia, Singapore, UAE and UK.
Frames and special mounting plates for KNX sensores have to ordered by:
ABB, S.A.
Low Voltage Products-Niessen, Oiartzun / Spain
www.abb.es/niessen

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)

Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment.
Display elements: LCD showing operation modes.
Protection class (Device): IP 20
Temperature range (Device): – 5 °C to 45 °C

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Millenium

6125/20-981-500

Switch Sensor 2 gang KNX
Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Control element: Switch contacts. Display elements: LED to indicate the function.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6125/20-981-500	2CKA006115A0443		0.083	1

6126/20-981-500

Switch Sensor 4 gang KNX
Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Control element: Switch contacts. Display elements: LED to indicate the function.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6126/20-981-500	2CKA006116A0218		0.084	1

6129/20-981-500

Switch Sensor 6 gang KNX
Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Control element: Switch contacts. Display elements: LED to indicate the function.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6129/20-981-500	2CKA006118A0104		0.085	1

6129/21-981-500

Switch Sensor 6 gang KNX with IR
Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Control element: Switch contacts. Display elements: LED to indicate the function.
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6129/21-981-500	2CKA006118A0107		0.086	1

6122/20-981-500

Busch-Watchdog 180 flush mounted standard sensor

Movement sensor with up to four channels. Detection range: frontal: 6 m, lateral: 6 m.
Detection angle: 180 °. Brightness limit value: 5 Lux – 150 Lux. Mounting height: 1.1 m
Protection class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 53 mm x 44 mm. Position for installation: vertical.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6122/20-981-500	2CKA006132A0306		0.084	1

6124/08-981-500

Room Thermostat

Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for Fan Coil units in 2- and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.).
Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment.
Display elements: LCD showing operation modes. Protection class (Device): IP 20.
Temperature range (Device): – 5 °C to 45 °C. Dimensions: (L x W x D): 53 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6124/08-981-500	2CKA006134A0309		0.101	1

Buttons with symbols

Buttons with symbols for Millenium control covers 1 / 2-gang, 2 / 4-gang, 3 / 6-gang and 3 / 6-gang with infrared.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Symbol for marking "Light"	–	6123/20-500	2CKA006123A0001		0.011	1
Symbol for marking "blinds"	–	6123/21-500	2CKA006123A0002		0.011	1
Symbol for marking "scene"	–	6123/22-500	2CKA006123A0003		0.011	1
Symbol for marking "temperature"	–	6123/23-500	2CKA006123A0004		0.011	1
Symbol for marking "ceiling light"	–	6123/24-500	2CKA006123A0005		0.003	1
Symbol for marking "Fan Coil"	–	6123/26-500	2CKA006123A0006		0.003	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Millenium
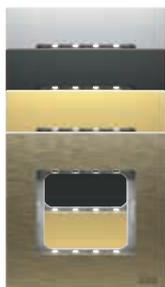
Triple rocker / KNX frame 1 gang
Frame includes metal mounting plate. Dimensions 86 x 86 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Stainless Steel	–	AMD5153-ST	2CLA637100N1101		0.109	1
Silk Black	–	AMD5153-SB	2CLA637100N1501		0.11	1
Matt Gold	–	AMD5153-MG	2CLA637100N1701		0.111	1
Antique Gold	–	AMD5153-AG	2CLA637100N1601		0.111	1

Triple rocker / KNX frame 2 gang
Frame includes metal mounting plate. Dimensions 86 x 147 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Stainless Steel	–	AMD5253-ST	2CLA667200N1101		0.177	1
Silk Black	–	AMD5253-SB	2CLA667200N1501		0.177	1
Matt Gold	–	AMD5253-MG	2CLA667200N1701		0.176	1
Antique Gold	–	AMD5253-AG	2CLA667200N1601		0.178	1

AMD5053

Special metal mounting plate for KNX sensors
Allows reduction height of KNX sensors to 1 mm. Only for following items: AMD72053-AN, AMD74053-AN, AMD76053-AN, AMD76153-AN.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Special metal mounting plate for KNX sensors 1 gang	–	AMD5053	2CLA627190N1001		0.032	1

TR/U 1.1

Transponder Reader MIFARE

The "transponder reader" is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4A @24 V AC/DC) and one input to be used for connecting external conventional card-holder (e.g. Millenium wiring accessories card-holder). The output can be programmed in three different ways: "Linked to access control", receiving in this case switching commands from the device itself (according to transponder card validation); being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices; "linked to card-holder", that means that the relay is switched according to closing/opening internal input contact available on transponder reader. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX telegram (for example for DND/MUR purposes).

The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

The transponder reader is available for ABB Millenium wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TR/U 1.1	2CSY235683R2001		0.050	1

TH/U 1.1

Transponder Holder MIFARE

The "transponder holder" is a flush-mounting device for British Standard wall boxes, designed to realize access control systems with a communication support based on KNX bus. It is equipped with one relay (4A @24V AC/DC) and one binary input to be used for connecting external conventional push-button for switch, dimmer and shutter functionalities, or for example for connecting window contact or similar. The output can be programmed as "Linked to access control", receiving in this case switching commands from the device itself (according to card insertion/removal); or being a standard KNX Switch actuator output, able to be controlled by every KNX-standard devices. The bicolor (red-green) LED placed on the front of the device allow you to monitor device operation and can be also switched ON/OFF in the proper color according to KNX.

The transponder reader requires a 12...24 V AC/DC external power supply to ensure its operation even with bus voltage failure.

The transponder reader is available for ABB Millenium wiring accessories range.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	TH/U 1.1	2CSY265232R2021		0.018	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Zenit

01	Switch Sensor 2gang KNX
02	Switch Sensor 4gang KNX
03	Switch Sensor 6gang KNX
04	Switch Sensor 6gang KNX with IR
05	Busch watchdog 180° KNX
06	Room Thermostat KNX

01

Function
Switching | Dimming | Blinds |
Sending values | Scenes etc.

Features
Incl. 10 logic channels (light
scene actuator | sequence
actuator | logic gates, etc.)
Control element: Switch
contacts
Display elements: LED to
indicate the function

02

Function
Switching | Dimming | Blinds |
Sending values | Scenes etc.

Features
Incl. 10 logic channels (light
scene actuator | sequence
actuator | logic gates, etc.)
Control element: Switch
contacts
Display elements: LED to
indicate the function

03

Function
Switching | Dimming | Blinds |
Sending values | Scenes etc.

Features
Incl. 10 logic channels (light
scene actuator | sequence
actuator | logic gates, etc.)
Control element: Switch
contacts
Display elements: LED to
indicate the function

Zenit is based on a combinable concept which creates a very comprehensive range, suitable for any type of needs. Optimizing comfort, safety and efficiency of homes and buildings: Providing with complete comfort solutions to satisfy all type of needs and projects. Ensuring safety and protection of persons and goods. Saving energy by using only the amount of energy required.

Zenit offers two different mounting plates for KNX sensors corresponding to different market standards: VDE and NEMA.

04

Function
Switching | Dimming | Blinds | Sending values | Scenes etc. | 6gang sensor with IR.

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Control element: Switch contacts
Display elements: LED to indicate the function

05

Function
Movement sensor with up to four channels.
Detection range: frontal: 6 m, lateral: 6 m
Detection angle: 180 °
Brightness limit value:
5 Lux - 150 Lux
Mounting height: 1.1 m

06

Function
Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for Fan Coil units in 2- and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode.

The Zenit VDE range is only available in the following countries:
Spain, Portugal, Russia, France
The Zenit NEMA range is only available in the following countries:
Latin America, Australia, Thailand, Vietnam.
Sensors, frames and special mounting plates for KNX sensores have to ordered by:
ABB, S.A.
Low Voltage Products-Niessen, Oiartzun / Spain
www.abb.es/niessen

Features
Incl. 10 logic channels (light scene actuator | sequence actuator | logic gates, etc.)
Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment.
Display elements: LCD showing operation modes.
Protection class (Device): IP 20
Temperature range (Device):
– 5 °C to + 45 °C

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Zenit

6125/98-509

1/2-fold sensor

Push switch function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts. Display elements: LED to indicate the function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6125/98-509	2CKA006115A0444		0.077	1
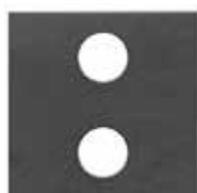
N2221.2

Cover Zenit 1/2-fold

Cover Zenit 1/2-fold. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.2 BL	2CLA222120N1101		0.038	1
anthracite	–	N2221.2 AN	2CLA222120N1801		0.038	1
silver	–	N2221.2 PL	2CLA222120N1301		0.038	1

6126/98-509

2/4-fold sensor

Push switch function: switching / dimming / blind / sending values / scenes etc. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Control element: Switch contacts. Display elements: LED to indicate the function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6126/98-509	2CKA006116A0219		0.079	1
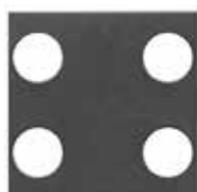
N2221.4

Cover Zenit 2/4-fold

Cover Zenit 2/4-fold. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.4 BL	2CLA222140N1101		0.038	1
anthracite	–	N2221.4 AN	2CLA222140N1801		0.038	1
silver	–	N2221.4 PL	2CLA222140N1301		0.038	1

6129/96-509

3/6-fold sensor

Push switch function: switching / dimming / blind / sending values / scenes etc. Incl.
10 logic channels (light scene actuator, sequence actuator, logic gates, etc.)
Control element: Switch contacts. Display elements: LED to indicate the function. Protection
class (Device): IP 20. Temperature range (Device): – 5 °C to 45 °C.
Dimensions: (L x W x D): 44 mm x 44 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6129/96-509	2CKA006118A0105		0.08	1
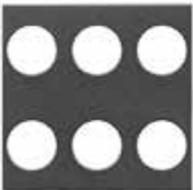
N2221.6

Cover Zenit 3/6-fold

Cover Zenit 3/6-fold. Available in white (BL), anthracite (AN) and silver (PL).

| Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.6 BL	2CLA222160N1101		0.011	1
anthracite	–	N2221.6 AN	2CLA222160N1801		0.011	1
silver	–	N2221.6 PL	2CLA222160N1301		0.011	1

6129/98-509

3/6-fold sensor with IR

Push switch function: switching / dimming / blind / sending values / scenes etc. Incl.
10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). With infrared.
Control element: Switch contacts. Display elements: LED to indicate the function.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6129/98-509	2CKA006118A0108		0.088	1
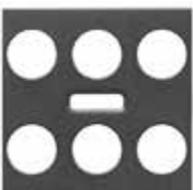
N2221.7

Cover Zenit 3/6-fold with IR

Cover Zenit 3/6-fold with IR. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2221.7 BL	2CLA222170N1101		0.011	1
anthracite	–	N2221.7 AN	2CLA222170N1801		0.011	1
silver	–	N2221.7 PL	2CLA222170N1301		0.011	1

—

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Zenit

6124/88-509

Room thermostat heating / cooling Fan Coil

Control element with room thermostat function for triggering the heating, ventilation and fan-coil actuators. The controller is a thermostat for Fan Coil units in 2 - and 4-pipe systems and conventional heating or cooling systems. The fan stage can be switched manually or in automatic mode. Incl. 10 logic channels (light scene actuator, sequence actuator, logic gates, etc.). Switch contacts for operating mode selection and dial for setpoint or fan speed adjustment. Display elements: LCD showing operation modes.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6124/88-509	2CKA006134A0310		0.096	1

N2240.4

Cover Zenit room thermostat

Cover Zenit room thermostat. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2240.4 BL	2CLA224040N1101		0.028	1
anthracite	–	N2240.4 AN	2CLA224040N1801		0.028	1
silver	–	N2240.4 PL	2CLA224040N1301		0.028	1

6122/98-509

Watchdog 180 flush mounted

Movement sensor with up to four channels. Detection range: frontal: 6 m, lateral: 6 m. Detection angle: 180 °. Brightness limit value: 5 Lux – 150 Lux. Mounting height: 1.1 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6122/98-509	2CKA006132A0307		0.09	1

N2241.4

Cover Zenit watchdog

Cover Zenit watchdog. Available in white (BL), anthracite (AN) and silver (PL).

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2241.4 BL	2CLA224140N1101		0.011	1
anthracite	–	N2241.4 AN	2CLA224140N1801		0.011	1
silver	–	N2241.4 PL	2CLA224140N1301		0.01	1
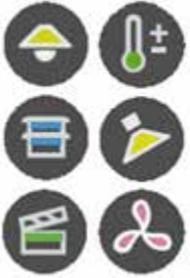
Buttons with symbols

Buttons with symbols for Zenit control covers 1 / 2-gang, 2 / 4-gang, 3 / 6-gang and 3 / 6-gang with infrared.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Symbol for marking "Light"	–	6123/20-500	2CKA006123A0001		0.011	10
Symbol for marking "blinds"	–	6123/21-500	2CKA006123A0002		0.011	10
Symbol for marking "scene"		6123/22-500	2CKA006123A0003		0.011	10
Symbol for marking "temperature"	–	6123/23-500	2CKA006123A0004		0.011	10
Symbol for marking "ceiling light"	–	6123/24-500	2CKA006123A0005		0.003	10
Symbol for marking "Fan Coil"	–	6123/26-500	2CKA006123A0006		0.003	10

N2271 XX

Frames, 1 window, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2271 BL	2CLA227100N1102		0.032	1
silver	–	N2271 PL	2CLA227100N1302		0.03	1
anthracite	–	N2271 AN	2CLA227100N1802		0.03	1
champagne	–	N2271 CV	2CLA227100N1902		0.031	1
wengué	–	N2271 WG	2CLA227100N2102		0.043	1
slate	–	N2271 PZ	2CLA227100N2202		0.92	1
white glass	–	N2271 CB	2CLA227100N3002		0.083	1
black glass	–	N2271 CN	2CLA227100N3102		0.083	1
pearl glass	–	N2271 CP	2CLA227100N3502		0.085	1
coffee glass	–	N2271 CC	2CLA227100N3702		0.083	1
graphite glass	–	N2271 CF	2CLA227100N3802		0.085	1
champagne glass	–	N2271 CH	2CLA227100N3902		0.085	1
stainless steel	–	N2271 OX	2CLA227100N4002		0.2	1

Basic frame, 1 window, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2271.1 BL	2CLA227110N1102		0.021	1
silver	–	N2271.1 PL	2CLA227110N1302		0.021	1
anthracite	–	N2271.1 AN	2CLA227110N1802		0.019	1
champagne	–	N2271.1 CV	2CLA227110N1902		0.02	1

Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Zenit

N2272 BL

2gang frames, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2272 BL	2CLA227200N1102		0.054	1
silver	–	N2272 PL	2CLA227200N1302		0.051	1
anthracite	–	N2272 AN	2CLA227200N1802		0.053	1
champagne	–	N2272 CV	2CLA227200N1902		0.052	1
wengué	–	N2272 WG	2CLA227200N2102		0.065	1
slate	–	N2272 PZ	2CLA227200N2202		0.154	1
white glass	–	N2272 CB	2CLA227200N3002		0.143	1
black glass	–	N2272 CN	2CLA227200N3102		0.136	1
pearl glass	–	N2272 CP	2CLA227200N3502		0.141	1
coffee glass	–	N2272 CC	2CLA227200N3702		0.142	1
graphite glass	–	N2272 CF	2CLA227200N3802		0.141	1
champagne glass	–	N2272 CH	2CLA227200N3902		0.14	1
stainless steel	–	N2272 OX	2CLA227200N4002		0.35	1

N2272.1 BL

2gang frames – Basic, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2272.1 BL	2CLA227210N1102		0.036	1
silver	–	N2272.1 PL	2CLA227210N1302		0.035	1
anthracite	–	N2272.1 AN	2CLA227210N1802		0.034	1
champagne	–	N2272.1 CV	2CLA227210N1902		0.035	1

N2273 BL

3gang frames, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2273 BL	2CLA227300N1102		0.08	1
silver	–	N2273 PL	2CLA227300N1302		0.079	1
anthracite	–	N2273 AN	2CLA227300N1802		0.079	1
champagne	–	N2273 CV	2CLA227300N1902		0.079	1
wengué	–	N2273 WG	2CLA227300N2102		0.099	1
slate	–	N2273 PZ	2CLA227300N2202		0.218	1
white glass	–	N2273 CB	2CLA227300N3002		0.2	1
black glass	–	N2273 CN	2CLA227300N3102		0.2	1
pearl glass	–	N2273 CP	2CLA227300N3502		0.2	1
coffee glass	–	N2273 CC	2CLA227300N3702		0.2	1
graphite glass	–	N2273 CF	2CLA227300N3802		0.2	1
champagne glass	–	N2273 CH	2CLA227300N3902		0.2	1
stainless steel	–	N2273 OX	2CLA227300N4002		0.52	1

N2273.1 BL

3gang frames – Basic, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2273.1 BL	2CLA227310N1102		0.054	1
silver	–	N2273.1 PL	2CLA227310N1302		0.053	1
anthracite	–	N2273.1 AN	2CLA227310N1802		0.052	1
champagne	–	N2273.1 CV	2CLA227310N1902		0.055	1

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ABB i-bus® KNX – User Operation – Design Ranges – Zenit

N2274 BL

4gang frames, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2274 BL	2CLA227400N1102		0.102	1
silver	–	N2274 PL	2CLA227400N1302		0.102	1
anthracite	–	N2274 AN	2CLA227400N1802		0.103	1
champagne	–	N2274 CV	2CLA227400N1902		0.103	1
wengué	–	N2274 WG	2CLA227400N2102		0.123	1
slate	–	N2274 PZ	2CLA227400N2202		0.278	1
white glass	–	N2274 CB	2CLA227400N3002		0.26	1
black glass	–	N2274 CN	2CLA227400N3102		0.261	1
pearl glass	–	N2274 CP	2CLA227400N3502		0.261	1
coffee glass	–	N2274 CC	2CLA227400N3702		0.261	1
graphite glass	–	N2274 CF	2CLA227400N3802		0.261	1
champagne glass	–	N2274 CH	2CLA227400N3902		0.261	1
stainless steel	–	N2274 OX	2CLA227400N4002		0.647	1

N2274.1 BL

4gang frames – Basic, Zenit VDE

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2274.1 BL	2CLA227410N1102		0.07	1
silver	–	N2274.1 PL	2CLA227410N1302		0.07	1
anthracite	–	N2274.1 AN	2CLA227410N1802		0.069	1
champagne	–	N2274.1 CV	2CLA227410N1902		0.069	1
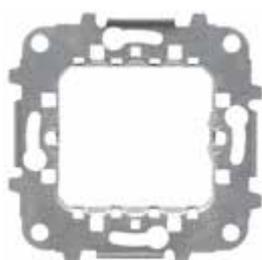
N2271.9

Metal mounting plate
Metal mounting plate for Zenit VDE KNX sensors.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
1 window	–	N2271.9	2CLA227190N1002		0.026	20
2 windows	–	N2272.9	2CLA227290N1002		0.049	20

N2372.1 XX
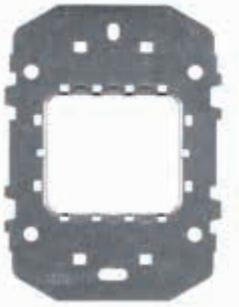
N2371.9V

Frame, 2 modules, Zenit, NEMA

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	N2372.1 BL	2CLA237210N1102		0.067	1
silver	–	N2372.1 PL	2CLA237210N1302		0.047	1
anthracite	–	N2372.1 AN	2CLA237210N1802		0.047	1
champagne	–	N2372.1 CV	2CLA237210N1902		0.047	1
slate	–	N2372.1 PZ	2CLA237200N2202		0.047	1
white glass	–	N2372.1 CB	2CLA237200N3002		0.124	1
black glass	–	N2372.1 CN	2CLA237200N3102		0.14	1
stainless steel	–	N2372.1 OX	2CLA237200N4002		0.278	1

Metal mounting plate
Mounting plate for 3 module box, facilitates the assembly of 1 and 2 module devices in vertical or horizontal installations.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
for vertical installation	–	N2371.9V	2CLA237190N1002		0.054	20
for horizontal installation	–	N2373.9	2CLA237390N1002		0.036	20

Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Mylos

2CSYK1001C

Binary Input, 2-fold

Device equipped with 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1001C	2CSYK1001C		0.07	1
black	–	2CSYK1001S	2CSYK1001S		0.07	1

2CSYK1002C

Binary Input, 2-fold, with Rocker Switch

Device equipped with: 1 rocker switch; 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1002C	2CSYK1002C		0.07	1
black	–	2CSYK1002S	2CSYK1002S		0.07	1

2CSYK1003C

Binary Input, 2-fold, with Rocker Switches, 2 gang

Device equipped with: 2 rocker switches; 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1003C	2CSYK1003C		0.07	1
black	–	2CSYK1003S	2CSYK1003S		0.07	1

2CSYK1023C

Binary Input, 2-fold, with Rocker Switches, 2 gang, multifunction   **NEW**

Device equipped with:2 rocker switches; 2 binary input channels that can be used to interface to KNX system conventional push-buttons/rocker switches, or auxiliary/technical contacts. LEDs for the functional signaling of the load to which the rocker switch is connected. Upper and lower rocker switches can be separeted for switching, dimming, shutter functionality. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1023C	2CSYK1023C			1
black	–	2CSYK1023S	2CSYK1023S			1

2CSYK1012C

One rocker switch

1 rocker switch device used as a sensor in KNX system. LEDs for the functional signaling of the load to which the rocker switch is connected. Flush-mounted installation. Customization labels are available as separate articles: 2CSYE1502C and 2CSYE1502S.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1012C	2CSYK1012C		0.07	1
black	–	2CSYK1012S	2CSYK1012S		0.07	1

2CSYK1022C

One rocker switch, multifunction   NEW

1 rocker switch device used as a sensor in KNX system. LEDs for the functional signaling of the load to which the rocker switch is connected. Upper and lower rocker switches can be separated for switching, dimming, shutter functionality. Flush-mounted installation. Customization labels are available as separate articles: 2CSYE1502C and 2CSYE1502S.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1022C	2CSYK1022C			1
black	–	2CSYK1022S	2CSYK1022S			1

2CSYK1101C

Switch Actuator, 1-fold, 16 A

Device equipped with 1 output channel to switch 1 independent electrical load (16 A) via KNX bus. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1101C	2CSYK1101C		0.07	1
black	–	2CSYK1101S	2CSYK1101S		0.07	1

2CSYK1102C

Switch Actuator, 1-fold, 16 A, with Rocker Switch

Device equipped with: 1 rocker switch, 1 output channel to switch 1 independent electrical load (16 A) via KNX bus. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1102C	2CSYK1102C		0.07	1
black	–	2CSYK1102S	2CSYK1102S		0.07	1

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Mylos

2CSYK1103C

Switch Actuator, 1-fold, 16A, with Rocker Switches, 2 gang
Device equipped with: 2 rocker switches, 1 output channel to switch 1 independent electrical load (16 A) via KNX bus. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1103C	2CSYK1103C		0.07	1
black	–	2CSYK1103S	2CSYK1103S		0.07	1

2CSYK1104C

Shutter Actuator, 1-fold, 230 V
Device equipped with 1-fold shutter actuator. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1104C	2CSYK1104C		0.07	1
black	–	2CSYK1104S	2CSYK1104S		0.07	1

2CSYK1105C

Shutter Actuator, 1-fold, 230 V, with Rocker Switch
Device equipped with 1-fold shutter actuator and 1 rocker switch. Equipped with LED for functional signaling.Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1105C	2CSYK1105C		0.07	1
black	–	2CSYK1105S	2CSYK1105S		0.07	1

2CSYK1106C

Switch Actuator, 2-fold, 8A, with Rocker Switches, 2 gang
Device equipped with: 2 rocker switches, 2 output channel to switch 2 independent electrical load (8 A) via KNX bus. Equipped with LED for functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1106C	2CSYK1106C		0.07	1
black	–	2CSYK1106S	2CSYK1106S		0.07	1

2CSYK1202C

Thermostat

Standard KNX thermostat equipped with backlight LCD display 4 push buttons on the front for the following functionalities (Operating mode switching, Fan-coil speed manual switching, set-point manual increment/decrement). Possibility to choose different type of control: 2-point ON/OFF, PWM, Continue, Fan- coil.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1202C	2CSYK1202C		0.07	1
black	–	2CSYK1202S	2CSYK1202S		0.07	1

2CSYK1205C

Universal Dimmer Actuator, 1-fold, 350W, with Rocker Switch

Device with 350 W dimmer and rocker switch. Suitable for inductive and capacitive load with automatic recognition. Equipped with LED for load functional signaling.Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1205C	2CSYK1205C		0.07	1
black	–	2CSYK1205S	2CSYK1205S		0.07	1

2CSYK1206C

Dimmer 1..10 V, 1-fold, with Rocker Switch

Device equipped with 1/10 V dimmer with rocker switch. Suitable for loads with ballast adjustment. Equipped with LED for load functional signaling. Flush-mounted installation.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	2CSYK1206C	2CSYK1206C		0.07	1
black	–	2CSYK1206S	2CSYK1206S		0.07	1

LT/U 1.1.MC
LT/U 1.1.MS

Transponder Reader, Mylos

The transponder reader is used for access control in the hotel, residential and commercial sectors (office buildings, business centers, laboratories, etc.). The device is equipped with two bistable relays (8 A, 250 V AC), one of which can be assigned to control electronic lock, and three voltage-free, non-optically insulated inputs; the 5-V DC scanning voltage is available on the COM terminal.
The transponder reader requires a 10...32 V DC/12...24 V AC external power supply to ensure its operation even with bus voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	LT/U 1.1.MC	2CSYK5000C		0.1	1
black	–	LT/U 1.1.MS	2CSYK5000S		0.1	1

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PTI/U 1.1.MC

Transponder Holder, Mylos
The transponder holder is equipped with a slot into which the transponder card is inserted. In a hotel application, this allows occupancy recognition and notification at the supervisory level (e.g. on the front desk computer). Moreover, room status information can be managed by using special cards (minibar status, maintenance status, usability).
The device is equipped with two bistable relays (8 A, 250 Vac), and three voltage-free, non-optically insulated inputs; the 5-Vdc scanning voltage is generated by the device itself. The transponder holder has on the front four LEDs for signaling indications. It requires a 10...32 Vdc/12...24 Vac auxiliary power supply to ensure its operation even in case of KNX voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PTI/U 1.1.MC	2CSYK5200C		0.1	1
black	–	PTI/U 1.1.MS	2CSYK5200S		0.1	1

PRT/U 1.1.MC

Transponder Programming Device, Mylos
The devices allows the programming of transponder cards. The device is equipped with two bistable relays (8 A, 250 Vac), and three voltage-free, non-optically insulated inputs; the 5-Vdc scanning voltage is generated by the device itself. The transponder programming device has on the front four LEDs for signaling indications. It requires a 10...32Vdc/12...24Vac auxiliary power supply to ensure its operation even in case of KNX voltage failure.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	PRT/U 1.1.MC	2CSYK5300C		0.1	1
black	–	PRT/U 1.1.MS	2CSYK5300S		0.1	1

CH/T 2

Set of 5 Transponder Cards for Chiara and Mylos design programs
The transponder card uses passive transponder technology operating in radio frequency, without the need for contact between the reader and the card itself. The transponder card is read by swiping it in front of the reader at a maximum distance of 20 mm.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	CH/T 2	2CSKK5400C		0.005	1

Round cover plates

Mylos Lucent
A great adventure in luminosity.
If the need is to surround youself with sparkling elements, the Lucent series is the most ap-propriate choice.
Made of special resins, each plate enhances with its glossy shades in every setting, like spots of light on Caravaggio canvases.
Mylos Lucent evokes elements such as alabaster and ice, also makes black shine, giving a technological aspect and thereby completing particularly high-tech spaces.

Lucent, White Alabaster.

Alabaster white

Description	No. mod-ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0201RGP	2CSY0201RGP		0.033	1
	3	2CSY0301RGP	2CSY0301RGP		0.054	1
	4	2CSY0401RGP	2CSY0401RGP		0.067	1
	7	2CSY0701RGP	2CSY0701RGP		0.108	1
	4+4	2CSY0801RGP	2CSY0801RGP		0.133	1

Lucent, Cold Grey.

Cold grey

Description	No. mod-ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0202RLP	2CSY0202RLP		0.033	1
	3	2CSY0302RLP	2CSY0302RLP		0.054	1
	4	2CSY0402RLP	2CSY0402RLP		0.067	1
	7	2CSY0702RLP	2CSY0702RLP		0.108	1
	4+4	2CSY0802RLP	2CSY0802RLP		0.133	1

Lucent, Brilliant black.

Brilliant black

Description	No. mod-ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0200RLP	2CSY0200RLP		0.033	1
	3	2CSY0300RLP	2CSY0300RLP		0.054	1
	4	2CSY0400RLP	2CSY0400RLP		0.067	1
	7	2CSY0700RLP	2CSY0700RLP		0.108	1
	4+4	2CSY0800RLP	2CSY0800RLP		0.133	1

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Mylos

Ice

Lucent, Ice.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0203QLP	2CSY0203QLP			1
	3	2CSY0303QLP	2CSY0303QLP			1
	4	2CSY0403QLP	2CSY0403QLP			1
	7	2CSY0703QLP	2CSY0703QLP			1
	4+4	2CSY0803QLP	2CSY0803QLP			1

Mylos Velvet

A touch of velvet in every gesture.

The Mylos Velvet finish draws inspiration from the creation of interiors in the automotive sector, a feather in the cap of Italian industrial tradition.

The technology applied to polymers makes it possible to obtain a matt scratchresistant finish and with an extraordinary soft tactile effect, just like velvet, to provide one's home with an original multisensorial elegance.

Ice

Velvet, Ice.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0221RSP	2CSY0221RSP		0.033	1
	3	2CSY0321RSP	2CSY0321RSP		0.054	1
	4	2CSY0421RSP	2CSY0421RSP		0.067	1
	7	2CSY0721RSP	2CSY0721RSP		0.108	1
	4+4	2CSY0821RSP	2CSY0821RSP		0.133	1

Graphite

Velvet, Graphite.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0225RSP	2CSY0225RSP		0.033	1
	3	2CSY0325RSP	2CSY0325RSP		0.054	1
	4	2CSY0425RSP	2CSY0425RSP		0.067	1
	7	2CSY0725RSP	2CSY0725RSP		0.108	1
	4+4	2CSY0825RSP	2CSY0825RSP		0.133	1

White

Velvet, White.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0224RMP	2CSY0224RMP		0.033	1
	3	2CSY0324RMP	2CSY0324RMP		0.054	1
	4	2CSY0424RMP	2CSY0424RMP		0.067	1
	7	2CSY0724RMP	2CSY0724RMP		0.108	1
	4+4	2CSY0824RMP	2CSY0824RMP		0.133	1

Cold grey

Velvet, Cold Grey.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0222RSP	2CSY0222RSP		0.033	1
	3	2CSY0322RSP	2CSY0322RSP		0.054	1
	4	2CSY0422RSP	2CSY0422RSP		0.067	1
	7	2CSY0722RSP	2CSY0722RSP		0.108	1
	4+4	2CSY0822RSP	2CSY0822RSP		0.133	1

Black

Velvet, Black.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0223RSP	2CSY0223RSP		0.033	1
	3	2CSY0323RSP	2CSY0323RSP		0.054	1
	4	2CSY0423RSP	2CSY0423RSP		0.067	1
	7	2CSY0723RSP	2CSY0723RSP		0.108	1
	4+4	2CSY0823RSP	2CSY0823RSP		0.133	1

Anthracite

Velvet, Anthracite.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0226RSP	2CSY0226RSP		0.033	1
	3	2CSY0326RSP	2CSY0326RSP		0.054	1
	4	2CSY0426RSP	2CSY0426RSP		0.067	1
	7	2CSY0726RSP	2CSY0726RSP		0.108	1
	4+4	2CSY0826RSP	2CSY0826RSP		0.133	1

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Mylos

White white

Velvet, White white.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0201RWP	2CSY0201RWP		0.033	1
	3	2CSY0301RWP	2CSY0301RWP		0.054	1
	4	2CSY0401RWP	2CSY0401RWP		0.067	1
	7	2CSY0701RWP	2CSY0701RWP		0.108	1
	4+4	2CSY0801RWP	2CSY0801RWP		0.133	1

Mylos Metal
The prestige, the strength, the charm.
The skill in working metals is another typically Italian talent. The Mylos Metal civil series is the result of the process of die-casting of "zama", a zinc alloy, finished with the shades of natural metals by means of precious painting and careful brushing for each and every piece. The finishes obtained range from silver to gold, through aluminium, steel and chromium, brushed and glossy, that evoke sensations of sophistication and preciousness.

Satin silver

Metal, Satin finish, Silver.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0211RLZ	2CSY0211RLZ		0.1	1
	3	2CSY0311RLZ	2CSY0311RLZ		0.114	1
	4	2CSY0411RLZ	2CSY0411RLZ		0.12	1
	7	2CSY0711RLZ	2CSY0711RLZ		0.135	1
	4+4	2CSY0811RLZ	2CSY0811RLZ		0.24	1

Satin aluminium

Metal, Satin finish, Aluminium.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0204RLZ	2CSY0204RLZ		0.1	1
	3	2CSY0304RLZ	2CSY0304RLZ		0.114	1
	4	2CSY0404RLZ	2CSY0404RLZ		0.12	1
	7	2CSY0704RLZ	2CSY0704RLZ		0.135	1
	4+4	2CSY0804RLZ	2CSY0804RLZ		0.24	1

Satin gold

Metal, Satin finish, gold.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0205RLZ	2CSY0205RLZ		0.1	1
	3	2CSY0305RLZ	2CSY0305RLZ		0.114	1
	4	2CSY0405RLZ	2CSY0405RLZ		0.12	1
	7	2CSY0705RLZ	2CSY0705RLZ		0.135	1
	4+4	2CSY0805RLZ	2CSY0805RLZ		0.24	1

Glossy chrome

Metal, Glossy finish, Chrome.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0206RLZ	2CSY0206RLZ		0.1	1
	3	2CSY0306RLZ	2CSY0306RLZ		0.114	1
	4	2CSY0406RLZ	2CSY0406RLZ		0.12	1
	7	2CSY0706RLZ	2CSY0706RLZ		0.135	1
	4+4	2CSY0806RLZ	2CSY0806RLZ		0.24	1

Brushed steel

Metal, Brushed steel.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0202RSZ	2CSY0202RSZ		0.1	1
	3	2CSY0302RSZ	2CSY0302RSZ		0.114	1
	4	2CSY0402RSZ	2CSY0402RSZ		0.12	1
	7	2CSY0702RSZ	2CSY0702RSZ		0.135	1
	4+4	2CSY0802RSZ	2CSY0802RSZ		0.24	1

Dark nickel

Metal, Dark nickel.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0210RSZ	2CSY0210RSZ			1
	3	2CSY0310RSZ	2CSY0310RSZ			1
	4	2CSY0410RSZ	2CSY0410RSZ			1
	7	2CSY0710RSZ	2CSY0710RSZ			1
	4+4	2CSY0810RSZ	2CSY0810RSZ			1

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Glossy gold

Metal, Glossy finish, Gold.

Description	No. mod-ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0207RLZ	2CSY0207RLZ		0.1	1
	3	2CSY0307RLZ	2CSY0307RLZ		0.114	1
	4	2CSY0407RLZ	2CSY0407RLZ		0.12	1
	7	2CSY0707RLZ	2CSY0707RLZ		0.135	1
	4+4	2CSY0807RLZ	2CSY0807RLZ		0.24	1

Square Cover Plate

Mylos Etik
The design in perfect harmony with sustainability. Today, the development of a new product cannot ignore the impact on the environment in which we live. Every effort must be made with a view to obtaining an original but mainly sustainable result. ABB strongly believes in this commitment. And confirms this with Mylos Etik, the new finish that is good for all, including the environment.

White

Black

Mylos Ethik white and black

Description	No. mod-ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	2	2CSY0201QEP	2CSY0201QEP			1
white	3	2CSY0301QEP	2CSY0301QEP			1
white	4	2CSY0401QEP	2CSY0401QEP			1
white	7	2CSY0701QEP	2CSY0701QEP			1
black	2	2CSY0200QEP	2CSY0200QEP			1
black	3	2CSY0300QEP	2CSY0300QEP			1
black	4	2CSY0400QEP	2CSY0400QEP			1
black	7	2CSY0700QEP	2CSY0700QEP			1

Mylos Crystal
The elegance of glass, the naturalness of reflections.
The glass of the Mylos Crystal series is not just glass. It draws inspiration from the great master glass-makers of Murano, in the Venice Lagoon, already active in this art since the VIII century. The elegant satin effect which differs from the typical shiny glass effect is obtained by the sanding effect which consists in subjecting the glass slab to the abrasive action of sand. After treatment the transparent slab becomes opalescent. The result is an elegant yet sober finish suitable for the most sought-after settings, with a refined yet never excessive style.

Crystal black

Crystal white

Crystal black and white

Description	No. mod- ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
black	2	2CSY0200QSV	2CSY0200QSV		0.06	1
black	3	2CSY0300QSV	2CSY0300QSV		0.07	1
black	4	2CSY0400QSV	2CSY0400QSV		0.08	1
white	2	2CSY0201QMV	2CSY0201QMV		0.06	1
white	3	2CSY0301QMV	2CSY0301QMV		0.07	1
white	4	2CSY0401QMV	2CSY0401QMV		0.08	1

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Smarter Solutions for Home and Building Automation

ABB i-bus® KNX – User Operation – Design Ranges –
Mylos

Mylos Lucent
A great adventure in luminosity.
If the need is to surround youself with sparkling elements, the Lucent series is the most appropriate choice.
Made of special resins, each plate enhances with its glossy shades in every setting, like spots of light on Caravaggio canvases.
Mylos Lucent evokes elements such as alabaster and ice, also makes black shine, giving a technological aspect and thereby completing particularly high-tech spaces.

White alabaster

Lucent, White Alabaster.

Description	No. mod-ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0201QGP	2CSY0201QGP		0.033	1
	3	2CSY0301QGP	2CSY0301QGP		0.054	1
	4	2CSY0401QGP	2CSY0401QGP		0.067	1
	7	2CSY0701QGP	2CSY0701QGP		0.108	1
	4+4	2CSY0801QGP	2CSY0801QGP		0.133	1

Cold grey

Lucent, Cold Grey.

Description	No. mod-ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0202QLP	2CSY0202QLP		0.033	1
	3	2CSY0302QLP	2CSY0302QLP		0.054	1
	4	2CSY0402QLP	2CSY0402QLP		0.067	1
	7	2CSY0702QLP	2CSY0702QLP		0.108	1
	4+4	2CSY0802QLP	2CSY0802QLP		0.133	1

Brilliant black

Lucent, Brilliant black.

Description	No. mod-ules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0200QLP	2CSY0200QLP		0.033	1
	3	2CSY0300QLP	2CSY0300QLP		0.054	1
	4	2CSY0400QLP	2CSY0400QLP		0.067	1
	7	2CSY0700QLP	2CSY0700QLP		0.108	1
	4+4	2CSY0800QLP	2CSY0800QLP		0.133	1
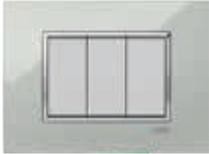
Ice

Lucent, Ice.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0203QLP	2CSY0203QLP		0.033	1
	3	2CSY0303QLP	2CSY0303QLP		0.054	1
	4	2CSY0403QLP	2CSY0403QLP		0.067	1
	7	2CSY0703QLP	2CSY0703QLP		0.108	1
	4+4	2CSY0803QLP	2CSY0803QLP		0.133	1

Mylos Velvet
A touch of velvet in every gesture.
The Mylos Velvet finish draws inspiration from the creation of interiors in the automotive sector, a feather in the cap of Italian industrial tradition.
The technology applied to polymers makes it possible to obtain a matt scratchresistant finish and with an extraordinary soft tactile effect, just like velvet, to provide one's home with an original multisensorial elegance.

Ice

Velvet, Ice.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0221QSP	2CSY0221QSP		0.033	1
	3	2CSY0321QSP	2CSY0321QSP		0.054	1
	4	2CSY0421QSP	2CSY0421QSP		0.067	1
	7	2CSY0721QSP	2CSY0721QSP		0.108	1
	4+4	2CSY0821QSP	2CSY0821QSP		0.133	1

Graphite

Velvet, Graphite.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0225QSP	2CSY0225QSP		0.033	1
	3	2CSY0325QSP	2CSY0325QSP		0.054	1
	4	2CSY0425QSP	2CSY0425QSP		0.067	1
	7	2CSY0725QSP	2CSY0725QSP		0.108	1
	4+4	2CSY0825QSP	2CSY0825QSP		0.133	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges –
Mylos

White

Velvet, White.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0224QMP	2CSY0224QMP		0.033	1
	3	2CSY0324QMP	2CSY0324QMP		0.054	1
	4	2CSY0424QMP	2CSY0424QMP		0.067	1
	7	2CSY0724QMP	2CSY0724QMP		0.108	1
	4+4	2CSY0824QMP	2CSY0824QMP		0.133	1

Cold grey

Velvet, Cold Grey.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0222QSP	2CSY0222QSP		0.033	1
	3	2CSY0322QSP	2CSY0322QSP		0.054	1
	4	2CSY0422QSP	2CSY0422QSP		0.067	1
	7	2CSY0722QSP	2CSY0722QSP		0.108	1
	4+4	2CSY0822QSP	2CSY0822QSP		0.133	1

Black

Velvet, Black.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0223QSP	2CSY0223QSP		0.033	1
	3	2CSY0323QSP	2CSY0323QSP		0.054	1
	4	2CSY0423QSP	2CSY0423QSP		0.067	1
	7	2CSY0723QSP	2CSY0723QSP		0.108	1
	4+4	2CSY0823QSP	2CSY0823QSP		0.133	1

Anthracite

Velvet, Anthracite.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0226QSP	2CSY0226QSP		0.033	1
	3	2CSY0326QSP	2CSY0326QSP		0.054	1
	4	2CSY0426QSP	2CSY0426QSP		0.067	1
	7	2CSY0726QSP	2CSY0726QSP		0.108	1
	4+4	2CSY0826QSP	2CSY0826QSP		0.133	1

White white

Velvet, White white.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0201QWP	2CSY0201QWP		0.033	1
	3	2CSY0301QWP	2CSY0301QWP		0.054	1
	4	2CSY0401QWP	2CSY0401QWP		0.067	1
	7	2CSY0701QWP	2CSY0701QWP		0.108	1
	4+4	2CSY0801QWP	2CSY0801QWP		0.133	1

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Smarter Solutions for Home and Building Automation
ABB i-bus® KNX – User Operation – Design Ranges – Mylos

Mylos Metal
The prestige, the strength, the charm.
The skill in working metals is another typically Italian talent. The Mylos Metal civil series is the result of the process of die-casting of "zama", a zinc alloy, finished with the shades of natural metals by means of precious painting and careful brushing for each and every piece. The finishes obtained range from silver to gold, through aluminium, steel and chromium, brushed and glossy, that evoke sensations of sophistication and preciousness.

Satin silver

Metal, Satin finish, Silver.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0211QLZ	2CSY0211QLZ		0.1	1
	3	2CSY0311QLZ	2CSY0311QLZ		0.114	1
	4	2CSY0411QLZ	2CSY0411QLZ		0.12	1
	7	2CSY0711QLZ	2CSY0711QLZ		0.135	1
	4+4	2CSY0811QLZ	2CSY0811QLZ		0.24	1

Satin aluminium

Metal, Satin finish, Aluminium.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0204QLZ	2CSY0204QLZ		0.1	1
	3	2CSY0304QLZ	2CSY0304QLZ		0.114	1
	4	2CSY0404QLZ	2CSY0404QLZ		0.12	1
	7	2CSY0704QLZ	2CSY0704QLZ		0.135	1
	4+4	2CSY0804QLZ	2CSY0804QLZ		0.24	1

Satin gold

Metal, Satin finish, Gold.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0205QLZ	2CSY0205QLZ		0.1	1
	3	2CSY0305QLZ	2CSY0305QLZ		0.114	1
	4	2CSY0405QLZ	2CSY0405QLZ		0.12	1
	7	2CSY0705QLZ	2CSY0705QLZ		0.135	1
	4+4	2CSY0805QLZ	2CSY0805QLZ		0.24	1

Glossy chrome

Metal, Glossy finish, chrome.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0206QLZ	2CSY0206QLZ		0.1	1
	3	2CSY0306QLZ	2CSY0306QLZ		0.114	1
	4	2CSY0406QLZ	2CSY0406QLZ		0.12	1
	7	2CSY0706QLZ	2CSY0706QLZ		0.135	1
	4+4	2CSY0806QLZ	2CSY0806QLZ		0.24	1

Brushed steel

Metal, Scratchbrushed steel.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0202QSZ	2CSY0202QSZ		0.1	1
	3	2CSY0302QSZ	2CSY0302QSZ		0.114	1
	4	2CSY0402QSZ	2CSY0402QSZ		0.12	1
	7	2CSY0702QSZ	2CSY0702QSZ		0.135	1
	4+4	2CSY0802QSZ	2CSY0802QSZ		0.24	1

Dark nickel

Metal, Dark nickel.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0210QSZ	2CSY0210QSZ			1
	3	2CSY0310QSZ	2CSY0310QSZ			1
	4	2CSY0410QSZ	2CSY0410QSZ			1
	7	2CSY0710QSZ	2CSY0710QSZ			1
	4+4	2CSY0810QSZ	2CSY0810QSZ			1

Glossy gold

Metal, Glossy finish, Gold.

Description	No. modules	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	2	2CSY0207QLZ	2CSY0207QLZ		0.1	1
	3	2CSY0307QLZ	2CSY0307QLZ		0.114	1
	4	2CSY0407QLZ	2CSY0407QLZ		0.12	1
	7	2CSY0707QLZ	2CSY0707QLZ		0.135	1
	4+4	2CSY0807QLZ	2CSY0807QLZ		0.24	1

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Smarter Solutions for Home and Building Automation
WaveLINE Wireless Control – RF Sensors

01

02

03

04

05

01 SM WaveLINE movement detector,
    Article-No. 6747 AGM-204-500

The WaveLINE Busch-Watchdog 220 is a battery-operated movement detector. Since it is installed without cables it can be mounted in the most ideal position. The battery has a service life of 5 years.

02 WaveLINE media converter TP-RF,
    Article-No. 6770-500

The KNX and Busch radio control are coupled via the WaveLINE media converter TP-RF. Telegrams can be exchanged in both directions. One application serves to transmit the window sensor to the KNX system.

03 Window sensor,
    Article-No. 6720-64

The WaveLINE window sensor is retrofitted between the window and window handle, which means the original window handle is retained. The window handle is used for the following window positions: opened, tilted and closed.

**04 Universal detector,**
    Article-No. 6721-64

The WaveLINE universal detector is suited for skylights or sliding doors and is activated via a reed contact. The universal detector has a second channel which can be permanently wired to a floating contact (NO or NC contacts).

05 Remote control RF,
    Article-No. 6780-500

The remote control is used as mobile control for the WaveLINE. Loads can be controlled individually and scenes can be started.

Control elements

Switch ranges	1gang	2gang	4gang	1gang	2gang
pure stainless steel	6731-866-500	6732-866-500	6733-866-500		
solo®	6731-xx-500	6732-xx-500	6733-xx-500		
Busch-axcent®	6731-xx-500	6732-xx-500	6733-xx-500		
future® linear	6731-xx-500	6732-xx-500	6733-xx-500		
Reflex SI				6731-214-500	6732-214-500
Busch-Duro 2000® SI				6731-212-500	6732-212-500

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01 1gang WaveLINE actuator, Article-No. 6702-500	05 1gang WaveLINE actuator, Article-No. 6701-101-500
02 2gang WaveLINE actuator, Article-No. 6703-500	06 WaveLINE binary input, 2gang Article-No. 6725-500
03 WaveLINE dimming actuator, Article-No. 6704-500	07 WaveLINE LED display, 4gang with switching function, Article-No. 6730-84
04 WaveLINE blind actuator, Article-No. 6705-101-500	
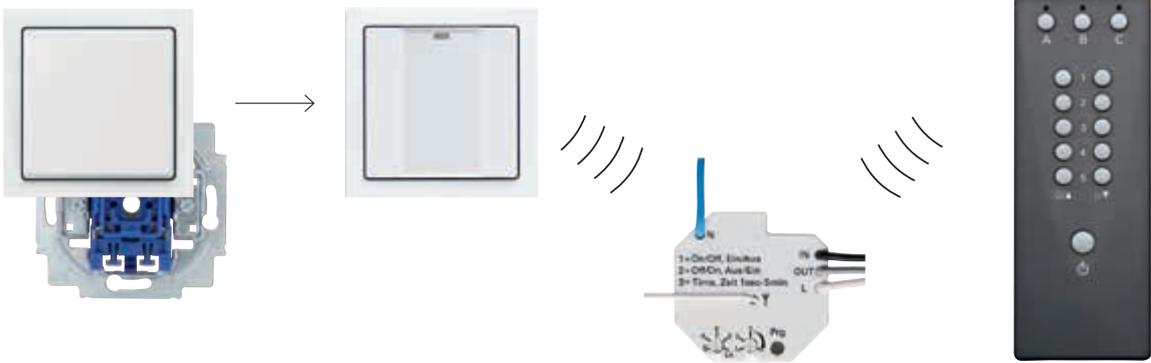
Before

After

Usage of frequency might be restricted in certain countries.

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Smarter Solutions for Home and Building Automation
WaveLINE Wireless Control – Transmitter

6731-214-500

6731-84-500

WaveLINE-Switch Sensor 1-fold
1gang wall-mounted transmitter independent of mains power supply. For switching and dimming. For controlling blinds and light scenes. 1 radio channel can be operated or up to 2 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. For LED display WaveLINE 6730-xxx. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery included in delivery; service life: typically 5 years.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6731-212-500	2CKA006730A0028		0.076	1/10
alpine white	–	6731-214-500	2CKA006730A0030		0.08	1/10
ivory white	–	6731-82-500	2CKA006730A0032		0.076	1/10
aluminium silver	–	6731-83-500	2CKA006730A0035		0.094	1/10
studio white	–	6731-84-500	2CKA006730A0038		0.096	1/10
stainless steel	–	6731-866-500	2CKA006730A0041		0.096	1/10
antique brass	–	6731-840-500	2CKA006730A0094		0.086	1/10

6732-214-500

6732-84-500

WaveLINE-Switch Sensor 2-fold
2gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 2 radio channels can be operated or up to 4 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. For LED display WaveLINE 6730-xxx. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery included in delivery; service life: typically 5 years.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6732-212-500	2CKA006730A0029		0.078	1/10
alpine white	–	6732-214-500	2CKA006730A0031		0.078	1/10
ivory white	–	6732-82-500	2CKA006730A0033		0.078	1/10
aluminium silver	–	6732-83-500	2CKA006730A0036		0.096	1/10
studio white	–	6732-84-500	2CKA006730A0039		0.096	1/10
stainless steel	–	6732-866-500	2CKA006730A0042		0.096	1/10
antique brass	–	6732-840-500	2CKA006730A0095		0.086	1/10

6733-84-500

WaveLINE-Switch Sensor 4-fold

4gang wall-mounted transmitter independent of mains power supply. With labelling field and labelling strip. For switching and dimming. For controlling blinds and light scenes. 4 radio channels can be operated or up to 8 light scenes can be called up. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. For LED display WaveLINE 6730-xxx. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery included in delivery; service life: typically 5 years.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
ivory white	–	6733-82-500	2CKA006730A0034		0.098	1/10
aluminium silver	–	6733-83-500	2CKA006730A0037		0.098	1/10
studio white	–	6733-84-500	2CKA006730A0040		0.098	1/10
stainless steel	–	6733-866-500	2CKA006730A0043		0.1	1/10

6780-500

WaveLINE-Remote Controller

Network-independent radio control. For switching and dimming. For controlling blinds and light scenes. With 3 groups (A, B or C) with 5 pairs of channels. There are 15 radio channels operated singly or up to 30 light scenes can be called. With "ALL OFF" function for associated actuators. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. For LED display WaveLINE 6730-xxx. Compatible with WaveLINE KNX gateway TP-RF 6770. Send frequency: 868 MHz. Free-field range: approx. 100 m. Power supply: lithium button cell battery Type CR2032. Battery included in delivery; service life: typically 5 years.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
black	–	6780-500	2CKA006780A0001		0.186	1/10

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Smarter Solutions for Home and Building Automation
WaveLINE Wireless Control – Transmitter

6725-500

WaveLINE binary input, 2gang, 230 V
Radio control telegrams are sent when the two extension units are activated with mains voltage (AC 230 V~). Operation also possible via conventional push-buttons (2020 US, 2012/6 UK). The 2gang binary input has 5 function modes 2-channel switching; 2-channel dimming; 1-channel blind; Two-channel light scene control; Channel 1: Switching ON. Channel 2: Continuous switching ON/OFF.
In dependence of the selected function, it can be combined with WaveLINE actuators 6701-101, 6702, 6703, 6704, 6705-101. Compatible with WaveLINE KNX gateway TP-RF 6770. Repeater function can be activated for extended range. For universal attachment or installation. Phase and neutral conductor required. For installation in (deep) flush-mounted boxes to German Standard DIN 49073, Part 1. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer. Display elements: LED for status display. Rated voltage: 230 V~, +10 % / –10 %. Rated frequency: 50 Hz. Inputs: 2. Polling voltage: 230 V~, potential-connected.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
white	–	6725-500	2CKA006720A0008		0.066	1/10

6747 AGM-204-500

Busch-Watchdog 220° WaveLINE
Wireless movement detector for detecting thermal motion. With display for detection and status indication. With ground and rear-field detection. With high-quality lens for optimum detection. Surveillance density: 84 sectors with 336 switching segments. With integrated dismantling protection. All functions controlled by microprocessor. With automatic range stabilization. With automatic interference suppression. With automatic dazzle-proofing. With automatic battery monitoring. Battery type: Lithium batteries 1250 mAh (L92 AAA 1.5 V). Battery included in delivery. Battery service life: typically 5 years, therefore practically maintenance-free. With brightness-independent test mode for evaluating the detection zone. Individual adjustment of detection range via enclosed protective foil which can be cut to size. Combinable with switch actuator WaveLINE, 1gang, with extension unit 6701-101. Compatible with WaveLINE KNX gateway TP-RF 6770. For standalone and group operation. Switch-off delay: 3 min. (single mode), individually adjustable at actuator (group mode). Send frequency: 868 MHz. Free-field range: approx. 100 m. Rated voltage: 4.5 V–. Detection range: frontal: 16 m, lateral: 16 m. Detection angle: 220 °. Brightness limit value: 0.5 Lux – 300 Lux, Daytime operation. Mounting height: 2.5 m.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
brown	–	6747 AGM-201-500	2CKA006700A0038		0.54	1
white	–	6747 AGM-204-500	2CKA006700A0035		0.54	1
silver metallic	–	6747 AGM-208-500	2CKA006700A0036		0.52	1
anthracite	–	6747 AGM-35-500	2CKA006700A0037		0.54	1

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Smarter Solutions for Home and Building Automation
WaveLINE Wireless Control – Actuators, RF/ KNX Media Converters

6701-101-500

Receiver WaveLINE, FM

For wireless switching of electrical loads. Functions via radio control: ON/OFF, timer and light scene control. Functions via the extension unit: ON/OFF, timer and sending a radio control telegram. Operation also possible via conventional push-buttons (2020 US, 2012/6 UK). For Busch-Watchdog WaveLINE. For wall mounted transmitter Waveline 6731-xxx, 6732-xxx and 6733-xxx. For remote control WaveLINE 6780. For WaveLINE window position sensor 6720-6x. For WaveLINE 6721-xx universal signalling unit. For Busch-EnergyControl 6762-xx. Compatible with WaveLINE KNX gateway TP-RF 6770. Controllable up to 32 transmission addresses. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer. Display elements: Status indication of output via LED. Rated voltage: 230 V~, +10 % / -10 %. Rated frequency: 50 Hz. Inputs: 1.
Polling voltage: 230 V~, Sensing pulse, L-wire.
Outputs: 1x Normally open contact, potential-bound.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
☼ ▯▯⊗▨⊗▭	–	6701-101-500	2CKA006700A0040		0.066	1/10

6702-500

WaveLINE-Actuator 1-fold

For wireless switching of electrical loads. For functions ON/OFF, timer and lightscene control. For wall mounted transmitter Waveline 6731-xxx, 6732-xxx and 6733-xxx. For remote control WaveLINE 6780. For WaveLINE window position sensor 6720-6x. For WaveLINE 6721-xx universal signalling unit. For Busch-EnergyControl 6762-xx. Compatible with WaveLINE KNX gateway TP-RF 6770. Controllable up to 32 transmission addresses. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer. Display elements: Status indication of output via LED. Rated voltage: 230 V~, +10 % / –10 %. Rated frequency: 50 Hz. Outputs: 1x Normally open contact, potential free.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
☼ ▯▯⊗▨⊗▭	–	6702-500	2CKA006700A0023		0.094	1/10

6703-500

WaveLINE-Actuator 2-fold

For wireless switching of electrical loads. For operation mode 2gang switch, 2 separate outputs. For operation mode timer: output 1 (eg lighting), output 2: ON/Off delay in dependence of output 1 (eg fan control). For functions: ON/OFF and light scene control. For wall mounted transmitter Waveline 6731-xxx, 6732-xxx and 6733-xxx. For remote control WaveLINE 6780. For WaveLINE window position sensor 6720-6x. For WaveLINE 6721-xx universal signalling unit. For Busch-EnergyControl 6762-xx. Compatible with WaveLINE KNX gateway TP-RF 6770. Controllable up to 32 transmission addresses. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer. Display elements: Status indication of output via LED. Rated voltage: 230 V~, +10 % / –10 %. Rated frequency: 50 Hz. Outputs: 2x Normally open contact, potential-bound.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
☼ ▯▯⊗▨⊗▭	–	6703-500	2CKA006700A0024		0.08	1/10

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Smarter Solutions for Home and Building Automation

WaveLINE Wireless Control – Actuators, RF/ KNX Media Converters

6704-500

WaveLINE-Dimmer Actuator

For wireless switching and dimming of electrical loads. For functions ON/OFF, dimming and lightscene control. With soft ON/OFF function. With selectable light value storage. For wall mounted transmitter Waveline 6731-xxx, 6732-xxx and 6733-xxx. For remote control Wave-LINE 6780. Compatible with WaveLINE KNX gateway TP-RF 6770. Repeater function can be activated for extended range. Controllable up to 32 transmission addresses.
Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer. Display elements: Status indication of output via LED. Rated voltage: 230 V~, +10 % / –10 %. Rated frequency: 50 Hz. Outputs: 1x dimming channel.
Suitable for: 230 V incandescent lamps. Output voltage: 230 V~. Rated power: 35 – 210 W.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
☼ ⬛⬛⊗ ⬛⬛⊗	–	6704-500	2CKA006700A0025		0.075	1/10

6705-101-500

WaveLINE series/blind actuator with extension unit

For wireless switching of electrical loads. For driving and adjusting blinds/shutters and awnings over radio. Functions via radio control: 2gang switch, blind switch and light scene control. Functions via extension unit: 2gang switch, blind switch and send radio control telegram. Operation also possible via conventional push-buttons (2020 US, 2012/6 UK). For wall mounted transmitter Waveline 6731-xxx, 6732-xxx and 6733-xxx. For remote control Wave-LINE 6780. For WaveLINE window position sensor 6720-6x. For WaveLINE 6721-xx universal signalling unit. For Busch-EnergyControl 6762-xx. Compatible with WaveLINE KNX gateway TP-RF 6770. Controllable up to 32 transmission addresses. Send/receive frequency: 868 MHz. Free-field range: approx. 100 m. Control element: Adjustable potentiometer. Display elements: Status indication of output via LED. Rated voltage: 230 V~, +10 % / –10 %. Rated frequency: 50 Hz. Inputs: 2. Polling voltage: 230 V~, Sensing pulse, L-wire. Outputs: 2x Normally open contact, potential-bound.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6705-101-500	2CKA006700A0042		0.066	1/10

6770-500

WaveLINE-Media converter TP-RF

Media converter with internal antenna for conversion of KNX RF WaveLine radio signals to KNX twisted pair networks with 24 channels. For the evaluation and transfer of up to 24 channels each with 4 sub-channels as transmitter or receiver. Simple operation due to "programming button" and display on the device. Is surface-mounted. The KNX/WaveLine Gateway is powered via KNX and does not require an additional power supply.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
	–	6770-500	2CKA006770A0002		0.15	1

Smarter Solutions for Home and Building Automation
WaveLINE Wireless Control – Window Sensor, Universal Detector

6730-214

LED display WaveLINE

For status display of window handle positions: open = red, closed = green, tilted = yellow. Direct onsite operation possible for switching / dimming an electrical device depending on the flush-mounted insert. 4 individual LED display channels. Up to 8 WaveLine transmitters can be taught-in on each LED display channel. Up to 8 WaveLine transmitters can be taughtin on onsite operation. User-friendly start-up without PC / software. Printed labelling sheet with 8 different inlay sheets (see labelling sheet 1799 xx). For WaveLINE window position sensor 6720-6x. For WaveLINE 6721-xx universal signalling unit. For Busch-Watchdog 220 WaveLINE 6747 AGM. For Busch-Universal relay switch insert 6404 U. For universal dimmer switch insert 6595 U. Free-field range: approx. 100 m. Send/receive frequency: 868 MHz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
Busch-Duro 2000® SI white	–	6730-212	2CKA006730A0001		0.094	1
Reflex SI alpine white	–	6730-214	2CKA006730A0002		0.094	1

6730-24G

LED display WaveLINE

For status display of window handle positions: open = red, closed = green, tilted = yellow. Direct onsite operation possible for switching / dimming an electrical device depending on the flush-mounted insert. 4 individual LED display channels. Up to 8 WaveLine transmitters can be taught-in on each LED display channel. Up to 8 WaveLine transmitters can be taughtin on onsite operation. User-friendly start-up without PC / software. Printed labelling sheet with 8 different inlay sheets (see labelling sheet 1799 xx). For WaveLINE window position sensor 6720-6x. For WaveLINE 6721-xx universal signalling unit. For Busch-Watchdog 220 WaveLINE 6747 AGM. For Busch-Universal relay switch insert 6404 U. For universal dimmer switch insert 6595 U. For ABB i-bus® KNX devices 6110 U, 6114 U, 6120 U-102.
Free-field range: approx. 100 m. Send/receive frequency: 868 MHz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
alpha platinum	–	6730-20	2CKA006730A0007		0.102	1
bronze	–	6730-21	2CKA006730A0008		0.102	1
ivory white	–	6730-22G	2CKA006730A0009		0.102	1
studio white matt	–	6730-24	2CKA006730A0010		0.102	1
studio white glossy	–	6730-24G	2CKA006730A0011		0.102	1
palladium	–	6730-260	2CKA006730A0005		0.094	1
titanium	–	6730-266	2CKA006730A0006		0.094	1

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Smarter Solutions for Home and Building Automation
WaveLINE Wireless Control – Window Sensor, Universal Detector

6730-84

LED display WaveLINE
For status display of window handle positions: open = red, closed = green, tilted = yellow. Direct onsite operation possible for switching / dimming an electrical device depending on the flush-mounted insert. 4 individual LED display channels. Up to 8 WaveLine transmitters can be taught-in on each LED display channel. Up to 8 WaveLine transmitters can be taughtin on onsite operation. User-friendly start-up without PC / software. Printed labelling sheet with 8 different inlay sheets (see labelling sheet 1799 xx). For WaveLINE window position sensor 6720-6x. For WaveLINE 6721-xx universal signalling unit. For Busch-Watchdog 220 WaveLINE 6747 AGM. For Busch-Universal relay switch insert 6404 U. For universal dimmer switch insert 6595 U. Free-field range: approx. 100 m. Send/receive frequency: 868 MHz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
future® linear anthracite	–	6730-81	2CKA006730A0014		0.102	1
ivory white	–	6730-82	2CKA006730A0015		0.102	1
aluminium silver	–	6730-83	2CKA006730A0016		0.102	1
studio white	–	6730-84	2CKA006730A0017		0.102	1
studio white matt	–	6730-884	2CKA006730A0026		0.102	1
black, matt	–	6730-885	2CKA006730A0027		0.102	1
solo® ivory white		6730-82	2CKA006730A0015		0.102	1
studio white	–	6730-84	2CKA006730A0017		0.102	1
grey metallic	–	6730-803	2CKA006730A0025		0.102	1
yellow	–	6730-815	2CKA006730A0024			1
Busch-axcent® studio white	–	6730-84	2CKA006730A0017		0.102	1
chalet white	–	6730-896-500	2CKA006730A0066			1
carat® anthracite	–	6730-81	2CKA006730A0014		0.102	1
ivory white	–	6730-82	2CKA006730A0015		0.102	1
studio white	–	6730-84	2CKA006730A0017		0.102	1
pure stainless steel anthracite	–	6730-866	2CKA006730A0023		0.102	1

Busch-Universal relay switch insert

For switching incandescent lamps, 230 V tungsten halogen lamps, fluorescent lamps and low-voltage halogen lamps, that are actuated via transformers. 3 wire connection (neutral conductor required). With operating mode switch for operating mode: switch, time switch. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). For LED display WaveLINE 6730-xxx. Rated voltage: 230 V~, +10 % / –10 %. Rated frequency: 50 Hz. Inputs: 1. Polling voltage: 230 V~, Sensing pulse, L-wire. Outputs: 1x Normally open contact, potential-bound. Suitable for: ohmic, capacitive and inductive loads. Rated current: 10 AX. Rated power: 2300 W/VA.

6404 U

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
⬚⬚ ▭ ⬚⬚ ☼	–	6404 U	2CKA006401A0055		0.104	1

Universal Dimmer Switch Insert

For dimming and switching of incadescent lamps, 230 V halogen lamps and low-voltage halogen lamps with conventional or electronic transformers. 2-wire connection (neutral conductor not required). With soft ON/OFF function. Operation also possible via conventional push buttons (2020 US, 2021/6 UK). Do not operate conventional transformers and electronic transformers together on the universal dimmer switch insert. For LED display WaveLINE 6730-xxx. Rated voltage: 230 V~, +10 % / –10 %. Rated frequency: 50 Hz. Inputs: 1. Polling voltage: 230 V~, Sensing pulse, L-wire. Outputs: 1x electronic output, potential-bound. Suitable for: ohmic, capacitive and inductive loads. Rated power: 60 – 450 W/VA.

6595 U
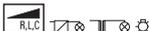
Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
R,L,C ⬚⬚ ⬚⬚ ☼	–	6595 U	2CKA006590A0188		0.119	1

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Smarter Solutions for Home and Building Automation
WaveLINE Wireless Control – Window Sensor, Universal Detector

6720-64

Window sensor WaveLINE

For monitoring and transmission of the current window handle position (window open, closed, tilted). The WaveLINE window sensor transmits the current window handle position immediately upon operation. Existing window handle is used. The WaveLINE window sensor is installed between the existing window handle and window frame. Suitable for window handle: 7 mm square fastener, 43 mm attachment screw separation, lifter dia. 10 and 12 mm, max. mounting plate size 34 x 77 mm (WxH). No wire laying required. Accessories for assembly (square fastener extension, screws, adapter for lifter) of the WaveLINE window position sensor included in delivery. Battery included in delivery. Battery service life: typically 5 years, therefore practically maintenance-free. Monitoring of battery life and transmission of battery condition. For LED display WaveLINE 6730-xxx. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Compatible with WaveLINE KNX gateway TP-RF 6770. Free-field range: approx. 100 m. Send frequency: 868 MHz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6720-64	2CKA006720A0001		0.198	1
basalt black	–	6720-65	2CKA006720A0002		0.198	1
stainless steel [1]	–	6720-66	2CKA006720A0003		0.194	1

[1] Surface painted

6721-64

Universal alarm unit Wave

For monitoring and transmission of the state (open, closed) of dormer windows, skylights, doors and gates. For window surveillance with open fireplace and extractor hood pursuant to Article 4 of the German Fire Prevention Regulations. Additional connection option for an external, potential-free sensor (choice of normally closed or normally open contact). Isolated evaluation and monitoring of channels. The WaveLINE universal sensor immediately transmits the current information when there is a change in state. Addition cyclic transmission for monitoring of the transmission link and the fault-free state of equipment. Attachment of WaveLINE universal sensor and magnets by using adhesive foil or screws. Accessories (adhesive foil, screws, magnet) included in delivery. Battery included in delivery. Battery service life: typically 5 years, therefore practically maintenance-free. Monitoring of battery life and transmission of battery condition. For LED display WaveLINE 6730-xxx. For flush-mounted WaveLINE actuators 6701-101, 6702, 6703, 6704 and 6705-101. Compatible with Wave-LINE KNX gateway TP-RF 6770.
External sensor max. wire length: 5 m. External sensor terminal connection diameter : 0.14...0.5 mm² (single wire). Free-field range: approx. 100 m. Send frequency: 868 MHz.

Description	Mod. width	Order details		Price 1 piece	Weight 1 piece	Pack unit
		Type code	Order code	€	kg	pc.
studio white matt	–	6721-64	2CKA006720A0004		0.168	1
basalt black	–	6721-65	2CKA006720A0005		0.168	1

— Selection Tables

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Selection Table According to Order Code

Order code	Type	EAN	PG	Page	Order code	Type	EAN	PG	Page
1SVR427041R0000	CP-D 24/0.42	40 13614 52377 9		12	2CDG110124R0011	JRA/S 2.230.5.1	40 16779 69843 6	26	45
1SVR427041R1000	CP-D 12/0.83	40 13614 52375 5		12	2CDG110125R0011	JRA/S 4.230.5.1	40 16779 69844 3	26	45
1SVR427043R0100	CP-D 24/1.3	40 13614 52378 6		12	2CDG110126R0011	JRA/S 8.230.5.1	40 16779 69845 0	26	45
1SVR427043R1200	CP-D 12/2.1	40 13614 52376 2		12	2CDG110128R0011	JRA/S 4.24.5.1	40 16779 69847 4	26	45
1SVR427045R0400	CP-D 24/4.2	40 13614 52379 3		12	2CDG110129R0011	JRA/S 2.230.1.1	40 16779 69848 1	26	46
1SVR427049R0000	CP-D RU	40 13614 52380 9		12	2CDG110130R0011	JRA/S 4.230.1.1	40 16779 69849 8	26	46
2CDG110002R0011	SA/M 2.6.1	40 16779 58314 5	26	25	2CDG110131R0011	JRA/S 8.230.1.1	40 16779 69850 4	26	46
2CDG110003R0011	JA/M 2.230.1	40 16779 58315 2	26	25	2CDG110132R0011	SA/S 2.16.5.1	40 16779 70827 2	26	39
2CDG110004R0011	JA/M 2.24.1	40 16779 58316 9	26	25	2CDG110133R0011	SA/S 4.16.5.1	40 16779 70828 9	26	39
2CDG110005R0011	BE/M 4.230.1	40 16779 58311 4	26	25	2CDG110134R0011	SA/S 8.16.5.1	40 16779 70829 6	26	39
2CDG110006R0011	BE/M 4.24.1	40 16779 58312 1	26	25	2CDG110136R0011	SE/S 3.16.1	40 16779 70977 4	26	108
2CDG110007R0011	BE/M 4.12.1	40 16779 58313 8	26	25	2CDG110137R0011	SA/S 12.16.5.1	40 16779 71107 4	26	39
2CDG110008R0011	USB/S 1.1	40 16779 58921 5	26	16	2CDG110138R0011	SA/S 12.16.6.1	40 16779 76516 9	26	39
2CDG110012R0011	UD/M 1.300.1	40 11395 04281 6	26	26	2CDG110143R0011	SJR/S 4.24.2.1	40 16779 86446 6	26	47
2CDG110013R0011	ES/M 2.230.1	40 16779 58361 9	26	26	2CDG110144R0011	SV/S 30.160.1.1	40 16779 86666 8	26	9
2CDG110014R0011	ES/M 2.24.1	40 16779 58362 6	26	26	2CDG110145R0011	SV/S 30.320.2.1	40 16779 83766 8	26	10
2CDG110024R0011	SCM/S 1.1	40 16779 58391 6	26	115	2CDG110146R0011	SV/S 30.640.5.1	40 16779 86669 9	26	10
2CDG110025R0011	DG/S 8.1	40 16779 58582 8	26	52	2CDG110148R0011	EM/S 3.16.1	40 16779 87706 0	26	108
2CDG110028R0011	JA/S 4.SMI.1M	40 16779 65423 4	26	47	2CDG110149R0011	STR/Z 1.50.1	40 16779 87716 9	20	19
2CDG110029R0011	DR/S 4.1	40 16779 58755 6	26	11	2CDG110150R0011	GM/A 8.1	40 16779 90630 2	26	119
2CDG110058R0011	ES/S 4.1.2.1	40 16779 67206 1	26	77	2CDG110152R0011	SA/S 4.6.1.1	40 16779 87786 2	26	38
2CDG110059R0011	ES/S 8.1.2.1	40 16779 67207 8	26	77	2CDG110153R0011	SA/S 8.6.1.1	40 16779 87785 5	26	38
2CDG110060R0011	DSM/S 1.1	40 16779 65205 6	26	18	2CDG110154R0011	SA/S 12.6.1.1	40 16779 87784 8	26	38
2CDG110065R0011	US/U 12.2	40 16779 65012 0	26	33	2CDG110155R0011	SA/S 2.10.2.1	40 16779 87783 1	26	38
2CDG110066R0011	EUB/S 1.1	40 16779 64991 9	26	112	2CDG110156R0011	SA/S 4.10.2.1	40 16779 87782 4	26	38
2CDG110067R0011	BDB/S 1.1	40 16779 65753 2	26	112	2CDG110157R0011	SA/S 8.10.2.1	40 16779 87781 7	26	38
2CDG110070R0011	NTU/S 12.2000.1	40 16779 68117 9	26	12	2CDG110158R0011	SA/S 12.10.2.1	40 16779 87780 0	26	38
2CDG110071R0011	UK/S 32.2	40 16779 65577 4	26	97	2CDG110159R0011	SA/S 2.16.2.1	40 16779 87779 4	26	39
2CDG110072R0011	ABZ/S 2.1	40 16779 65236 0	26	94	2CDG110160R0011	SA/S 4.16.2.1	40 16779 87778 7	26	39
2CDG110073R0011	ABL/S 2.1	40 16779 65264 3	26	94	2CDG110161R0011	SA/S 8.16.2.1	40 16779 87777 0	26	39
2CDG110074R0011	UD/S 2.300.2	40 16779 66306 9	26	60	2CDG110162R0011	SA/S 12.16.2.1	40 16779 87776 3	26	39
2CDG110079R0011	SD/S 2.16.1	40 16779 65996 3	26	58	2CDG110163R0011	FCL/S 1.6.1.1	40 16779 87788 6	26	85
2CDG110080R0011	SD/S 4.16.1	40 16779 65937 6	26	58	2CDG110164R0011	FCL/S 2.6.1.1	40 16779 87787 9	26	85
2CDG110081R0011	SD/S 8.16.1	40 16779 65918 5	26	58	2CDG110165R0011	RM/S 3.1	40 16779 88106 7	26	28
2CDG110083R0011	ZS/S 1.1	40 16779 66207 9	26	108	2CDG110166R0011	SV/S 30.320.1.1	40 16779 90619 7	26	9
2CDG110086R0011	AE/A 2.1	40 16779 66401 1	26	34	2CDG110167R0011	SV/S 30.640.3.1	40 16779 90621 0	26	9
2CDG110087R0011	LR/S 2.16.1	40 16779 66405 9	26	58	2CDG110168R0011	IO/S 4.6.1.1	40 16779 88107 4	26	40
2CDG110088R0011	LR/S 4.16.1	40 16779 66489 9	26	58	2CDG110169R0011	IO/S 8.6.1.1	40 16779 88108 1	26	40
2CDG110089R0011	LF/U 2.1	40 16779 66416 5	26	58	2CDG110170R0011	RM/S 4.1	40 16779 88126 5	26	28
2CDG110090R0011	BE/S 4.20.2.1	40 16779 71078 7	26	33	2CDG110171R0011	LK/S 4.2	40 16779 88167 8	26	14
2CDG110091R0011	BE/S 4.230.2.1	40 16779 71106 7	26	33	2CDG110172R0011	DLR/A 4.8.1.1	40 16779 88237 8	26	53
2CDG110092R0011	BE/S 8.20.2.1	40 16779 71076 3	26	33	2CDG110174R0011	WA/Z 1.1	40 16779 90637 1	26	119
2CDG110093R0011	BE/S 8.230.2.1	40 16779 71077 0	26	33	2CDG110175R0011	IPR/S 3.1.1	40 16779 90648 7	26	14
2CDG110094R0011	RM/S 1.1	40 16779 66556 8	26	28	2CDG110176R0011	IPR/S 3.5.1	40 16779 90650 0	26	14
2CDG110095R0011	RM/S 2.1	40 16779 66567 4	26	28	2CDG110177R0011	IPS/S 3.1.1	40 16779 90651 7	26	15
2CDG110096R0011	NTI/Z 28.30.1	40 16779 66316 8	26	11	2CDG110178R0011	MG/E 4.4.1	40 16779 92549 5	26	120
2CDG110100R0011	SA/M 2.16.1	40 16779 68158 2	26	25	2CDG110180R0011	SA/S 2.6.2.1	40 16779 92506 8	26	38
2CDG110101R0011	DLR/S 8.16.1M	40 16779 67656 4	26	53	2CDG110181R0011	SA/S 4.6.2.1	40 16779 92509 9	26	38
2CDG110104R0011	RC/A 4.2	40 16779 67647 2	26	24	2CDG110182R0011	SA/S 8.6.2.1	40 16779 92513 6	26	38
2CDG110106R0011	RC/A 8.2	40 16779 68126 1	26	24	2CDG110183R0011	SA/S 12.6.2.1	40 16779 92515 0	26	38
2CDG110107R0011	SD/M 2.6.2	40 16779 68066 0	26	25	2CDG110184R0011	WZ/S 1.3.1.2	40 16779 58612 2	26	34
2CDG110108R0011	LR/M 1.6.2	40 16779 68067 7	26	26	2CDG110186R0011	MG/A 4.4.1	40 16779 92552 5	26	120
2CDG110109R0011	MT/S 4.12.2M	40 16779 71187 6	26	115	2CDG110190R0011	AE/S 4.1.1.3	40 16779 92929 5	26	34
2CDG110110R0011	MT/S 8.12.2M	40 16779 71186 9	26	115	2CDG110191R0011	WS/S 4.1.1.2	40 16779 92937 0	26	34
2CDG110111R0011	MT/U 2.12.2	40 16779 71176 0	26	115	2CDG110192R0011	ABA/S 1.2.1	40 16779 92993 6	26	94
2CDG110112R0011	SA/S 2.16.6.1	40 16779 70830 2	26	39	2CDG110193R0011	FCA/S 1.2.2.2	40 16779 94217 1	26	84
2CDG110113R0011	SA/S 4.16.6.1	40 16779 70831 9	26	39	2CDG110194R0011	FCA/S 1.1.2.2	40 16779 94218 8	26	84
2CDG110114R0011	SA/S 8.16.6.1	40 16779 70832 6	26	39	2CDG110195R0011	FCA/S 1.1.1.2	40 16779 94219 5	26	84
2CDG110116R0011	VAA/S 6.230.2.1	40 16779 82986 1	26	76	2CDG110196R0011	FCA/S 1.2.1.2	40 16779 94222 5	26	84
2CDG110117R0011	VAA/S 12.230.2.1	40 16779 82987 8	26	76	2CDG110198R0011	DG/S 1.64.1.1	40 16779 94266 9	26	52
2CDG110120R0011	JRA/S 2.230.2.1	40 16779 69839 9	26	45	2CDG110199R0011	DG/S 2.64.1.1	40 16779 94285 0	26	52
2CDG110121R0011	JRA/S 4.230.2.1	40 16779 69840 5	26	45	2CDG110202R0011	AA/S 4.1.2	40 16779 96237 7	26	40
2CDG110122R0011	JRA/S 8.230.2.1	40 16779 69841 2	26	45	2CDG110203R0011	AA/A 2.1.2	40 16779 95407 5	26	40

Order code	Type	EAN	PG	Page
2CDG110205R0011	AC/S 1.1.1	40 16779 01180 8	26	92
2CDG110206R0011	AC/S 1.2.1	40 16779 01580 6	26	92
2CDG110207R0011	SUG/U 1.1	40 16779 99736 2	26	78
2CDG110208R0011	JRA/S 6.230.3.1	40 11395 25226 0	26	46
2CDG110209R0011	FCC/S 1.4.1.1	40 16779 01141 9	26	83
2CDG110210R0011	FCC/S 1.1.1.1	40 16779 01142 6	26	82
2CDG110211R0011	FCC/S 1.1.2.1	40 16779 01143 3	26	82
2CDG110212R0011	FCC/S 1.2.1.1	40 16779 01144 0	26	82
2CDG110213R0011	FCC/S 1.2.2.1	40 16779 01145 7	26	82
2CDG110214R0011	FCC/S 1.3.1.1	40 16779 01146 4	26	83
2CDG110215R0011	FCC/S 1.3.2.1	40 16779 01147 1	26	83
2CDG110216R0011	VC/S 4.1.1	40 16779 01148 8	26	76
2CDG110217R0011	VC/S 4.2.1	40 16779 01149 5	26	76
2CDG110218R0011	HCC/S 2.1.1.1	40 16779 01161 7	26	88
2CDG110219R0011	HCC/S 2.1.2.1	40 16779 01162 4	26	88
2CDG110220R0011	HCC/S 2.2.1.1	40 16779 01163 1	26	88
2CDG110221R0011	HCC/S 2.2.2.1	40 16779 01164 8	26	88
2CDG110222R0011	BCI/S 1.1.1	40 16779 01165 5	26	89
2CDG110226R0011	QA/S 3.16.1	40 16779 99775 1	26	111
2CDG110227R0011	QA/S 3.64.1	40 16779 99776 8	26	111
2CDG110228R0011	QA/S 4.16.1	40 16779 99777 5	26	111
2CDG110229R0011	QA/S 4.64.1	40 16779 99778 2	26	111
2CDG110234R0011	FCC/S 1.5.1.1	40 16779 01151 8	26	84
2CDG110235R0011	FCC/S 1.5.2.1	40 16779 01152 5	26	84
2CDG120004R0011	ST/K 1.1	40 16779 63022 1	20	77
2CDG120009R0011	VA/Z 10.1	40 16779 65319 0	20	78
2CDG120010R0011	VA/Z 50.1	40 16779 65320 6	20	78
2CDG120011R0011	VA/Z 78.1	40 16779 65321 3	20	78
2CDG120012R0011	VA/Z 80.1	40 16779 65322 0	20	78
2CDG120036R0011	IPM/S 1.1	40 16779 69790 3	20	16
2CDG120037R0011	CP-D 24/2.5	40 16779 69789 7	20	12
2CDG120037R0011	CP-D 24/2.5	40 16779 69789 7	20	103
2CDG120037R0011	CP-D 24/2.5	40 16779 69789 7	20	105
2CDG120037R0011	CP-D 24/2.5	40 16779 69789 7	20	181
2CDG120039R0011	FW/S 8.2.1	40 16779 90666 1	20	95
2CDG120040R0011	FAD/A 1.1	40 16779 90668 5	20	95
2CDG120041R0011	FAG/A 1.1	40 16779 90669 2	20	95
2CDG120042R0011	PS/E 2.1	40 16779 90670 8	20	95
2CDG120043R0011	PK/E 2.1	40 16779 90671 5	20	96
2CDG120044R0011	HS/S 4.2.1	40 16779 90672 2	20	61
2CDG120045R0011	LFO/A 1.1	40 16779 90673 9	20	61
2CDG120046R0011	WES/A 3.1	40 16779 92893 9	20	34
2CDG120047R0011	EG/A 32.2.1	40 16779 94257 7	26	16
2CDG120048R0011	MKE/A 1.868.1	40 16779 95066 4	20	17
2CDG120049R0011	TSA/K 230.2	40 16779 95067 1	20	78
2CDG120050R0011	TSA/K 24.2	40 16779 95068 8	20	78
2CDG120051R0011	SE/K 1.868.1	40 16779 99699 0	20	78
2CDG120059R0011	LGS/A 1.2	40 16779 01571 4	20	86
2CDG120060R0011	TR/A 1.1	40 16779 01572 1	20	96
2CDG120061R0011	VAA/A 6.24.2	40 16779 06371 5	20	76
2CDG120062R0011	BAC/S 1.5.1	40 16779 06440 8	20	89
2CDG120063R0011	BCM/S 16.2.0.1	40 16779 06441 5	20	90
2CDG120064R0011	BCM/S 16.1.1	40 16779 06442 2	20	90
2CDG120065R0011	BCM/S 16.1.3.1	40 16779 06443 9	20	90
2CDG120066R0011	BCM/S 8.0.2.1	40 16779 06444 6	20	91
2CDG120067R0011	BCM/S 6.5.5.1	40 16779 06445 3	20	91
2CDG120068R0011	BCM/S 2.6.0.1	40 16779 06446 0	20	91
2CDG120069R0011	BCE/Z 1.1	40 16779 06447 7	20	90
2CDG220021R0011	SAD/GAP	40 13614 50362 7	50	121
2CDG230023R0011	IR/XB	40 16779 67877 3	50	120
2CDG230024R0011	IR/XC	40 16779 67878 0	50	120
2CDG230025R0011	EIM/XB	40 16779 67879 7	50	120
2CDG230026R0011	EIM/XC	40 16779 67880 3	50	120

Order code	Type	EAN	PG	Page
2CDG230027R0011	IR/KB	40 16779 75716 4	50	123
2CDG230028R0011	EIM/KB	40 16779 75717 1	50	123
2CDG230029R0011	EIM/KC	40 16779 75718 8	50	123
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2CDG250003R0011	WRK/W	40 16779 66404 2	50	125
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2CKA006220A0536	SRS-1-866	40 11395 20372 9	24	214
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2CKA006220A0540	SRB-2-866	40 11395 20377 4	24	216
2CKA006220A0541	SRS-2-L-866	40 11395 20378 1	24	218
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Order code	Type	EAN	PG	Page
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2CKA006300A1539	TB/U2.4.1-CG	40 11395 23073 2	26	160
2CKA006300A1540	TB/U2.5.1-CG	40 11395 23074 9	26	160
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2CKA006300A1542	TB/U6.4.1-CG	40 11395 23076 3	26	161
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2CKA006300A1546	TBR/U4.8.1-CG	40 11395 23081 7	26	162
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2CKA006300A1547	TR/U.1.1-CG	40 11395 23082 4	26	162
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2CKA006300A1580	TB/U2.7.1-CG	40 11395 23117 3	26	166
2CKA006300A1581	TB/U4.7.1-CG	40 11395 23118 0	26	169
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Order code	Type	EAN	PG	Page
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2CKA006300A1582	TB/U6.7.1-CG	40 11395 23119 7	26	169
2CKA006300A1583	TR/U.2.1-CG	40 11395 23120 3	26	170
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2CKA006300A1588	TKK/U.3.1-CG	40 11395 23125 8	26	168
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2CKA006300A1588	TKK/U.3.1-CG	40 11395 23125 8	26	168
2CKA006300A1589	TKM/U.3.1-CG	40 11395 23127 2	26	168
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2CKA006300A1590	TB/U1.3.1-CG	40 11395 23128 9	26	166
2CKA006300A1593	TB/U4.8.1-CG	40 11395 23132 6	26	166
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2CKA006300A1594	TB/U6.8.1-CG	40 11395 23133 3	26	166
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2CKA006300A1594	TB/U6.8.1-CG	40 11395 23133 3	26	166
2CKA006300A1595	TR/U.3.1-CG	40 11395 23134 0	26	167
2CKA006300A1595	TR/U.3.1-CG	40 11395 23134 0	26	167
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2CKA006310A0114	6341-866-101-500	40 11395 13097 1	34	178
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2CSY0321RSP	2CSY0321RSP	80 12542 19886 4		250
2CSY0322QSP	2CSY0322QSP	80 12542 19936 6		258
2CSY0322RSP	2CSY0322RSP	80 12542 19986 1		251
2CSY0323QSP	2CSY0323QSP	80 12542 20036 9		258
2CSY0323RSP	2CSY0323RSP	80 12542 20086 4		251
2CSY0324QMP	2CSY0324QMP	80 12542 30375 6		258
2CSY0324RMP	2CSY0324RMP	80 12542 30505 7		251
2CSY0325QSP	2CSY0325QSP	80 12542 20236 3		257
2CSY0325RSP	2CSY0325RSP	80 12542 20286 8		250

Order code	Type	EAN	PG	Page
2CSY0326QSP	2CSY0326QSP	80 12542 20336 0		259
2CSY0326RSP	2CSY0326RSP	80 12542 20386 5		251
2CSY0400QEP	2CSY0400QEP	80 12542 32016 6		254
2CSY0400QLP	2CSY0400QLP	80 12542 19546 7		256
2CSY0400QSV	2CSY0400QSV	80 12542 20576 0		255
2CSY0400RLP	2CSY0400RLP	80 12542 19596 2		249
2CSY0401QEP	2CSY0401QEP	80 12542 31976 4		254
2CSY0401QGP	2CSY0401QGP	80 12542 30445 6		256
2CSY0401QMV	2CSY0401QMV	80 12542 30485 2		255
2CSY0401QWP	2CSY0401QWP	80 12542 20446 6		259
2CSY0401RGP	2CSY0401RGP	80 12542 30575 0		249
2CSY0401RWP	2CSY0401RWP	80 12542 20496 1		252
2CSY0402QLP	2CSY0402QLP	80 12542 19646 4		256
2CSY0402QSZ	2CSY0402QSZ	80 12542 18846 9		261
2CSY0402RLP	2CSY0402RLP	80 12542 19696 9		249
2CSY0402RSZ	2CSY0402RSZ	80 12542 18896 4		253
2CSY0403QLP	2CSY0403QLP	80 12542 19745 4		250
2CSY0403QLP	2CSY0403QLP	80 12542 19746 1		257
2CSY0404QLZ	2CSY0404QLZ	80 12542 19046 2		260
2CSY0404RLZ	2CSY0404RLZ	80 12542 19096 7		252
2CSY0405QLZ	2CSY0405QLZ	80 12542 19146 9		260
2CSY0405RLZ	2CSY0405RLZ	80 12542 19196 4		253
2CSY0406QLZ	2CSY0406QLZ	80 12542 19246 6		261
2CSY0406RLZ	2CSY0406RLZ	80 12542 19296 1		253
2CSY0407QLZ	2CSY0407QLZ	80 12542 19346 3		261
2CSY0407RLZ	2CSY0407RLZ	80 12542 19396 8		254
2CSY0410QSZ	2CSY0410QSZ	80 12542 32066 1		261
2CSY0410RSZ	2CSY0410RSZ	80 12542 32115 6		253
2CSY0411QLZ	2CSY0411QLZ	80 12542 28185 6		260
2CSY0411RLZ	2CSY0411RLZ	80 12542 28195 5		252
2CSY0421QSP	2CSY0421QSP	80 12542 19846 8		257
2CSY0421RSP	2CSY0421RSP	80 12542 19896 3		250
2CSY0422QSP	2CSY0422QSP	80 12542 19946 5		258
2CSY0422RSP	2CSY0422RSP	80 12542 19996 0		251
2CSY0423QSP	2CSY0423QSP	80 12542 20046 8		258
2CSY0423RSP	2CSY0423RSP	80 12542 20096 3		251
2CSY0424QMP	2CSY0424QMP	80 12542 30385 5		258
2CSY0424RMP	2CSY0424RMP	80 12542 30515 6		251
2CSY0425QSP	2CSY0425QSP	80 12542 20246 2		257
2CSY0425RSP	2CSY0425RSP	80 12542 20296 7		250
2CSY0426QSP	2CSY0426QSP	80 12542 20346 9		259
2CSY0426RSP	2CSY0426RSP	80 12542 20396 4		251
2CSY0700QEP	2CSY0700QEP	80 12542 32026 5		254
2CSY0700QLP	2CSY0700QLP	80 12542 19556 6		256
2CSY0700RLP	2CSY0700RLP	80 12542 19606 8		249
2CSY0701QEP	2CSY0701QEP	80 12542 31986 3		254
2CSY0701QGP	2CSY0701QGP	80 12542 30455 5		256
2CSY0701QWP	2CSY0701QWP	80 12542 20456 5		259
2CSY0701RGP	2CSY0701RGP	80 12542 30585 9		249
2CSY0701RWP	2CSY0701RWP	80 12542 20506 7		252
2CSY0702QLP	2CSY0702QLP	80 12542 19656 3		256
2CSY0702QSZ	2CSY0702QSZ	80 12542 18856 8		261
2CSY0702RLP	2CSY0702RLP	80 12542 19706 5		249
2CSY0702RSZ	2CSY0702RSZ	80 12542 18906 0		253
2CSY0703QLP	2CSY0703QLP	80 12542 19755 3		250
2CSY0703QLP	2CSY0703QLP	80 12542 19756 0		257
2CSY0704QLZ	2CSY0704QLZ	80 12542 19056 1		260
2CSY0704RLZ	2CSY0704RLZ	80 12542 19106 3		252
2CSY0705QLZ	2CSY0705QLZ	80 12542 19156 8		260
2CSY0705RLZ	2CSY0705RLZ	80 12542 19206 0		253
2CSY0706QLZ	2CSY0706QLZ	80 12542 19256 5		261
2CSY0706RLZ	2CSY0706RLZ	80 12542 19306 7		253
2CSY0707QLZ	2CSY0707QLZ	80 12542 19356 2		261

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Selection Table According to Order Code

Order code	Type	EAN	PG	Page	Order code	Type	EAN	PG	Page
2CSY0707RLZ	2CSY0707RLZ	80 12542 19406 4		254	2CSYK1003C	2CSYK1003C	80 12542 14875 3		244
2CSY0710QSZ	2CSY0710QSZ	80 12542 32076 0		261	2CSYK1003S	2CSYK1003S	80 12542 15015 2		244
2CSY0710RSZ	2CSY0710RSZ	80 12542 32126 2		253	2CSYK1012C	2CSYK1012C	80 12542 26915 1		245
2CSY0711QLZ	2CSY0711QLZ	80 12542 28205 1		260	2CSYK1012S	2CSYK1012S	80 12542 26925 0		245
2CSY0711RLZ	2CSY0711RLZ	80 12542 28215 0		252	2CSYK1022C	2CSYK1022C	80 12542 57452 1		245
2CSY0721QSP	2CSY0721QSP	80 12542 19856 7		257	2CSYK1022S	2CSYK1022S	80 12542 56272 6		245
2CSY0721RSP	2CSY0721RSP	80 12542 19906 9		250	2CSYK1023C	2CSYK1023C	80 12542 56362 4		244
2CSY0722QSP	2CSY0722QSP	80 12542 19956 4		258	2CSYK1023S	2CSYK1023S	80 12542 58632 6		244
2CSY0722RSP	2CSY0722RSP	80 12542 20006 2		251	2CSYK1101C	2CSYK1101C	80 12542 14885 2		245
2CSY0723QSP	2CSY0723QSP	80 12542 20056 7		258	2CSYK1101S	2CSYK1101S	80 12542 15025 1		245
2CSY0723RSP	2CSY0723RSP	80 12542 20106 9		251	2CSYK1102C	2CSYK1102C	80 12542 14895 1		245
2CSY0724QMP	2CSY0724QMP	80 12542 30395 4		258	2CSYK1102S	2CSYK1102S	80 12542 15035 0		245
2CSY0724RMP	2CSY0724RMP	80 12542 30525 5		251	2CSYK1103C	2CSYK1103C	80 12542 14905 7		246
2CSY0725QSP	2CSY0725QSP	80 12542 20256 1		257	2CSYK1103S	2CSYK1103S	80 12542 15045 9		246
2CSY0725RSP	2CSY0725RSP	80 12542 20306 3		250	2CSYK1104C	2CSYK1104C	80 12542 14915 6		246
2CSY0726QSP	2CSY0726QSP	80 12542 20356 8		259	2CSYK1104S	2CSYK1104S	80 12542 15055 8		246
2CSY0726RSP	2CSY0726RSP	80 12542 20406 0		251	2CSYK1105C	2CSYK1105C	80 12542 14925 5		246
2CSY0800QLP	2CSY0800QLP	80 12542 19566 5		256	2CSYK1105S	2CSYK1105S	80 12542 15065 7		246
2CSY0800RLP	2CSY0800RLP	80 12542 19616 7		249	2CSYK1106C	2CSYK1106C	80 12542 14935 4		246
2CSY0801QGP	2CSY0801QGP	80 12542 30415 9		256	2CSYK1106S	2CSYK1106S	80 12542 15075 6		246
2CSY0801QWP	2CSY0801QWP	80 12542 20466 4		259	2CSYK1202C	2CSYK1202C	80 12542 14985 9		247
2CSY0801RGP	2CSY0801RGP	80 12542 30545 3		249	2CSYK1202S	2CSYK1202S	80 12542 15125 8		247
2CSY0801RWP	2CSY0801RWP	80 12542 20516 6		252	2CSYK1205C	2CSYK1205C	80 12542 14945 3		247
2CSY0802QLP	2CSY0802QLP	80 12542 19666 2		256	2CSYK1205S	2CSYK1205S	80 12542 15085 5		247
2CSY0802QSZ	2CSY0802QSZ	80 12542 18866 7		261	2CSYK1206C	2CSYK1206C	80 12542 14955 2		247
2CSY0802RLP	2CSY0802RLP	80 12542 19716 4		249	2CSYK1206S	2CSYK1206S	80 12542 15095 4		247
2CSY0802RSZ	2CSY0802RSZ	80 12542 18916 9		253	2CSYK5000C	LT/U 1.1.MC	80 12542 26425 5		137
2CSY0803QLP	2CSY0803QLP	80 12542 19765 2		250	2CSYK5000C	LT/U 1.1.MC	80 12542 26425 5		247
2CSY0803QLP	2CSY0803QLP	80 12542 19766 9		257	2CSYK5000S	LT/U 1.1.MS	80 12542 26465 1		137
2CSY0804QLZ	2CSY0804QLZ	80 12542 19066 0		260	2CSYK5000S	LT/U 1.1.MS	80 12542 26465 1		247
2CSY0804RLZ	2CSY0804RLZ	80 12542 19116 2		252	2CSYK5200C	PTI/U 1.1.MC	80 12542 26435 4		137
2CSY0805QLZ	2CSY0805QLZ	80 12542 19166 7		260	2CSYK5200C	PTI/U 1.1.MC	80 12542 26435 4		248
2CSY0805RLZ	2CSY0805RLZ	80 12542 19216 9		253	2CSYK5200S	PTI/U 1.1.MS	80 12542 26475 0		137
2CSY0806QLZ	2CSY0806QLZ	80 12542 19266 4		261	2CSYK5200S	PTI/U 1.1.MS	80 12542 26475 0		248
2CSY0806RLZ	2CSY0806RLZ	80 12542 19316 6		253	2CSYK5300C	PRT/U 1.1.MC	80 12542 26445 3		138
2CSY0807QLZ	2CSY0807QLZ	80 12542 19366 1		261	2CSYK5300C	PRT/U 1.1.MC	80 12542 26445 3		248
2CSY0807RLZ	2CSY0807RLZ	80 12542 19416 3		254	2CSYK5300S	PRT/U 1.1.MS	80 12542 26485 9		138
2CSY0810QSZ	2CSY0810QSZ	80 12542 32035 7		261	2CSYK5300S	PRT/U 1.1.MS	80 12542 26485 9		248
2CSY0810RSZ	2CSY0810RSZ	80 12542 32085 2		253	GHQ3050008R0001	SGL	40 16779 53313 3	50	126
2CSY0811QLZ	2CSY0811QLZ	80 12542 28225 9		260	GHQ3050017R0001	SSF/G	40 16779 53466 6	50	129
2CSY0811RLZ	2CSY0811RLZ	80 12542 28235 8		252	GHQ3050018R0001	SSF/GB	40 16779 53467 3	50	129
2CSY0821QSP	2CSY0821QSP	80 12542 19866 6		257	GHQ3050023R0001	WEL/A, ES	40 16779 58570 5	50	122
2CSY0821RSP	2CSY0821RSP	80 12542 19916 8		250	GHQ3050024R0001	WELT/A, ES	40 16779 58571 2	50	122
2CSY0822QSP	2CSY0822QSP	80 12542 19966 3		258	GHQ3050027R0001	SCS	40 16779 58575 0	50	121
2CSY0822RSP	2CSY0822RSP	80 12542 20016 1		251	GHQ3050031R0001	L240/BS	40 16779 58561 3	50	121
2CSY0823QSP	2CSY0823QSP	80 12542 20066 6		258	GHQ3201972R0001	MRS/W	40 16779 50660 1	50	124
2CSY0823RSP	2CSY0823RSP	80 12542 20116 8		251	GHQ3201972R0002	MRS/B	40 16779 50659 5	50	124
2CSY0824QMP	2CSY0824QMP	80 12542 30405 0		258	GHQ3201972R0011	VMRS/W	40 16779 50658 8	50	124
2CSY0824RMP	2CSY0824RMP	80 12542 30535 4		251	GHQ3201972R0012	VMRS/B	40 16779 50657 1	50	124
2CSY0825QSP	2CSY0825QSP	80 12542 20266 0		257	GHQ3201973R0021	RTK	40 16779 50655 7	50	124
2CSY0825RSP	2CSY0825RSP	80 12542 20316 2		250	GHQ4001906R0001	LKS	40 13232 39280 1	50	124
2CSY0826QSP	2CSY0826QSP	80 12542 20366 7		259	GHQ4030001R0004	SWM 4	40 13232 05740 3	50	126
2CSY0826RSP	2CSY0826RSP	80 12542 20416 9		251	GHQ4030001R0012	SWM4/RN	40 13232 05750 2	50	126
2CSY235683R2001	TR/U 1.1	80 12542 35683 7		136	GHQ6050053R0001	LL/S 1.1	40 16779 39210 5	20	16
2CSY235683R2001	TR/U 1.1	80 12542 35683 7		233	GHQ6050056R0002	NT/S 12.1600	40 16779 51467 5	20	12
2CSY258202R2051	SW MiniMAC 4.1	80 12542 58202 1		139	GHQ6050057R0002	NT/S 24.800	40 16779 51468 2	20	12
2CSY259412R2041	TS/T 1	80 12542 59412 3		137	GHQ6050059R0005	MT 701.2, WS	40 16779 57581 2	20	97
2CSY265232R2021	TH/U 1.1	80 12542 65232 8		136	GHQ6050059R0006	MT 701.2, SR	40 16779 57582 9	20	97
2CSY265232R2021	TH/U 1.1	80 12542 65232 8		233	GHQ6050059R0011	T-RAHM, WS	40 16779 49585 1	20	97
2CSYK1001C	2CSYK1001C	80 12542 14855 5		244	GHQ6050059R0012	T-RAHM, SR	40 16779 49586 8	20	97
2CSYK1001S	2CSYK1001S	80 12542 14995 5		244	GHQ6050059R0014	UP-KAST 2	40 16779 51396 8	20	97
2CSYK1002C	2CSYK1002C	80 12542 14865 4		244	GHQ6301901R0001	BUSKLEMME	40 12233 80230 2	20	18
2CSYK1002S	2CSYK1002S	80 12542 15005 3		244	GHQ6301902R0001	KLEMME	40 16779 07930 3	20	18

Selection Table According to Type

Type	Oder code	EAN	PG	Page	Type	Oder code	EAN	PG	Page
1721-181K	2CKA001754A4240	40 11395 05080 4	4	197	1722-831-500	2CKA001754A4606	40 11395 19534 5	4	202
1721-182K-500	2CKA001754A4506	40 11395 17460 9	1	197	1722-832-500	2CKA001754A4601	40 11395 19528 4	4	202
1721-183K-500	2CKA001754A4529	40 11395 17594 1	4	197	1722-833-500	2CKA001754A4576	40 11395 19496 6	4	202
1721-184K-500	2CKA001754A4498	40 11395 17452 4	1	197	1722-835-500	2CKA001754A4566	40 11395 19485 0	4	202
1721-280	2CKA001754A4437	40 11395 15695 7	4	200	1722-836-500	2CKA001754A4571	40 11395 19491 1	4	202
1721-281	2CKA001754A4409	40 11395 12636 3	4	200	1722-838-500	2CKA001754A4561	40 11395 19479 9	4	202
1721-283	2CKA001754A4543	40 11395 18556 8	4	200	1722-843-500	2CKA001754A4596	40 11395 19523 9	4	202
1721-284	2CKA001754A4331	40 11395 11324 0	1	200	1722-84-500	2CKA001754A4539	40 11395 17616 0	1	198
1721-285	2CKA001754A4334	40 11395 11327 1	4	200	1722-845-500	2CKA001754A4586	40 11395 19512 3	4	202
1721-286	2CKA001754A4337	40 11395 11331 8	4	200	1722-846-500	2CKA001754A4591	40 11395 19517 8	4	202
1721-287	2CKA001754A4340	40 11395 11334 9	4	200	1722-848-500	2CKA001754A4581	40 11395 19502 4	4	202
1721-288	2CKA001754A4343	40 11395 11337 0	4	200	1722-860	2CKA001754A4255	40 11395 05681 3	4	199
1721-291-500	2CKA001754A4471	40 11395 16507 2	4	200	1722-866K-500	2CKA001754A4501	40 11395 17455 5	4	199
1721-295-500	2CKA001754A4491	40 11395 16509 6	4	200	1722-884K	2CKA001754A4415	40 11395 12825 1	1	197
1721-296-500	2CKA001754A4486	40 11395 16512 6	1	200	1722-885K-500	2CKA001754A4534	40 11395 17600 9	4	197
1721-297-500	2CKA001754A4476	40 11395 16515 7	4	200	1723-181K	2CKA001754A4242	40 11395 05082 8	4	197
1721-299-500	2CKA001754A4481	40 11395 16517 1	4	200	1723-182K	2CKA001754A4232	40 11395 05071 2	1	197
1721-80-500	2CKA001754A4535	40 11395 17611 5	4	198	1723-183K-500	2CKA001754A4533	40 11395 17599 6	4	197
1721-80G-500	2CKA001754A4538	40 11395 17615 3	4	198	1723-184K-500	2CKA001754A4502	40 11395 17456 2	1	197
1721-811	2CKA001754A4442	40 11395 15701 5	4	199	1723-280	2CKA001754A4439	40 11395 15697 1	4	200
1721-821	2CKA001754A4258	40 11395 05687 5	4	199	1723-281	2CKA001754A4411	40 11395 12638 7	4	200
1721-823-101	2CKA001754A4356	40 11395 11522 0	4	199	1723-283	2CKA001754A4545	40 11395 18558 2	4	200
1721-825	2CKA001754A4322	40 11395 08891 3	4	199	1723-284	2CKA001754A4333	40 11395 11326 4	1	200
1721-826-101	2CKA001754A4360	40 11395 11526 8	4	199	1723-285	2CKA001754A4336	40 11395 11329 5	4	200
1721-831-500	2CKA001754A4605	40 11395 19533 8	4	202	1723-286	2CKA001754A4339	40 11395 11333 2	4	200
1721-832-500	2CKA001754A4600	40 11395 19527 7	4	202	1723-287	2CKA001754A4342	40 11395 11336 3	4	200
1721-833-500	2CKA001754A4575	40 11395 19495 9	4	202	1723-288	2CKA001754A4345	40 11395 11339 4	4	200
1721-835-500	2CKA001754A4565	40 11395 19484 3	4	202	1723-291-500	2CKA001754A4473	40 11395 16531 7	4	200
1721-836-500	2CKA001754A4570	40 11395 19489 8	4	202	1723-295-500	2CKA001754A4493	40 11395 16533 1	4	200
1721-838-500	2CKA001754A4560	40 11395 19478 2	4	202	1723-296-500	2CKA001754A4488	40 11395 16535 5	1	200
1721-843-500	2CKA001754A4595	40 11395 19522 2	4	202	1723-297-500	2CKA001754A4478	40 11395 16537 9	4	200
1721-84-500	2CKA001754A4536	40 11395 17612 2	1	198	1723-299-500	2CKA001754A4483	40 11395 16539 3	4	200
1721-845-500	2CKA001754A4585	40 11395 19506 2	4	202	1723-80-500	2CKA001754A4540	40 11395 17617 7	4	198
1721-846-500	2CKA001754A4590	40 11395 19516 1	4	202	1723-80G	2CKA001754A4328	40 11395 11307 3	4	198
1721-848-500	2CKA001754A4580	40 11395 19501 7	4	202	1723-811	2CKA001754A4444	40 11395 15703 9	4	199
1721-860	2CKA001754A4254	40 11395 05679 0	4	199	1723-821	2CKA001754A4260	40 11395 05691 2	4	199
1721-866K-500	2CKA001754A4500	40 11395 17454 8	4	199	1723-823-101	2CKA001754A4358	40 11395 11524 4	4	199
1721-884K-500	2CKA001754A4531	40 11395 17596 5	1	197	1723-826-101	2CKA001754A4362	40 11395 11528 2	4	199
1721-885K-500	2CKA001754A4532	40 11395 17597 2	4	197	1723-831-500	2CKA001754A4607	40 11395 19535 2	4	202
1722-181K	2CKA001754A4241	40 11395 05081 1	4	197	1723-832-500	2CKA001754A4602	40 11395 19529 1	4	202
1722-182K	2CKA001754A4231	40 11395 05070 5	1	197	1723-833-500	2CKA001754A4577	40 11395 19497 3	4	202
1722-183K-500	2CKA001754A4530	40 11395 17595 8	4	197	1723-835-500	2CKA001754A4567	40 11395 19486 7	4	202
1722-184K-500	2CKA001754A4499	40 11395 17453 1	1	197	1723-836-500	2CKA001754A4572	40 11395 19492 8	4	202
1722-280	2CKA001754A4438	40 11395 15696 4	4	200	1723-838-500	2CKA001754A4562	40 11395 19481 2	4	202
1722-281	2CKA001754A4410	40 11395 12637 0	4	200	1723-843-500	2CKA001754A4597	40 11395 19524 6	4	202
1722-283	2CKA001754A4544	40 11395 18557 5	4	200	1723-84-500	2CKA001754A4541	40 11395 17623 8	1	198
1722-284	2CKA001754A4332	40 11395 11325 7	1	200	1723-845-500	2CKA001754A4587	40 11395 19513 0	4	202
1722-285	2CKA001754A4335	40 11395 11328 8	4	200	1723-846-500	2CKA001754A4592	40 11395 19518 5	4	202
1722-286	2CKA001754A4338	40 11395 11332 5	4	200	1723-848-500	2CKA001754A4582	40 11395 19503 1	4	202
1722-287	2CKA001754A4341	40 11395 11335 6	4	200	1723-860	2CKA001754A4256	40 11395 05683 7	4	199
1722-288	2CKA001754A4344	40 11395 11338 7	4	200	1723-866K	2CKA001754A4319	40 11395 08837 1	4	199
1722-291-500	2CKA001754A4472	40 11395 16519 5	4	200	1723-884K	2CKA001754A4416	40 11395 12826 8	1	197
1722-295-500	2CKA001754A4492	40 11395 16522 5	4	200	1723-885K	2CKA001754A4421	40 11395 12832 9	4	197
1722-296-500	2CKA001754A4487	40 11395 16524 9	1	200	1724-181K	2CKA001754A4243	40 11395 05083 5	4	197
1722-297-500	2CKA001754A4477	40 11395 16526 3	4	200	1724-182K	2CKA001754A4233	40 11395 05073 6	1	197
1722-299-500	2CKA001754A4482	40 11395 16528 7	4	200	1724-183K	2CKA001754A4309	40 11395 07483 1	4	197
1722-80-500	2CKA001754A4537	40 11395 17613 9	4	198	1724-184K	2CKA001754A4238	40 11395 05078 1	1	197
1722-80G	2CKA001754A4327	40 11395 11306 6	4	198	1724-280	2CKA001754A4440	40 11395 15698 8	4	201
1722-811	2CKA001754A4443	40 11395 15702 2	4	199	1724-281	2CKA001754A4412	40 11395 12639 4	4	201
1722-821	2CKA001754A4259	40 11395 05689 9	4	199	1724-283	2CKA001754A4546	40 11395 18559 9	4	201
1722-823-101	2CKA001754A4357	40 11395 11523 7	4	199	1724-284	2CKA001754A4346	40 11395 11341 7	1	201
1722-825	2CKA001754A4323	40 11395 08892 0	4	199	1724-285	2CKA001754A4348	40 11395 11343 1	4	201
1722-826-101	2CKA001754A4361	40 11395 11527 5	4	199	1724-286	2CKA001754A4350	40 11395 11345 5	4	201

Type	Oder code	EAN	PG	Page
1724-287	2CKA001754A4352	40 11395 11347 9	4	201
1724-288	2CKA001754A4354	40 11395 11349 3	4	201
1724-291-500	2CKA001754A4474	40 11395 16542 3	4	201
1724-295-500	2CKA001754A4494	40 11395 16544 7	4	201
1724-296-500	2CKA001754A4489	40 11395 16546 1	1	201
1724-297-500	2CKA001754A4479	40 11395 16548 5	4	201
1724-299-500	2CKA001754A4484	40 11395 16551 5	4	201
1724-80	2CKA001754A4107	40 11395 99488 7	4	198
1724-80G	2CKA001754A4329	40 11395 11308 0	4	198
1724-811	2CKA001754A4445	40 11395 15704 6	4	199
1724-821	2CKA001754A4261	40 11395 05693 6	4	199
1724-823-101	2CKA001754A4359	40 11395 11525 1	4	199
1724-825	2CKA001754A4325	40 11395 08894 4	4	199
1724-826-101	2CKA001754A4363	40 11395 11529 9	4	199
1724-831-500	2CKA001754A4608	40 11395 19536 9	4	203
1724-832-500	2CKA001754A4603	40 11395 19531 4	4	203
1724-833-500	2CKA001754A4578	40 11395 19498 0	4	203
1724-835-500	2CKA001754A4568	40 11395 19487 4	4	203
1724-836-500	2CKA001754A4573	40 11395 19493 5	4	203
1724-838-500	2CKA001754A4563	40 11395 19482 9	4	203
1724-84	2CKA001754A4112	40 11395 99617 1	1	198
1724-843-500	2CKA001754A4598	40 11395 19525 3	4	203
1724-845-500	2CKA001754A4588	40 11395 19514 7	4	203
1724-846-500	2CKA001754A4593	40 11395 19519 2	4	203
1724-848-500	2CKA001754A4583	40 11395 19504 8	4	203
1724-860	2CKA001754A4257	40 11395 05685 1	4	199
1724-866K	2CKA001754A4320	40 11395 08839 5	4	199
1724-884K	2CKA001754A4417	40 11395 12827 5	1	197
1724-885K	2CKA001754A4422	40 11395 12833 6	4	197
1725-181K	2CKA001754A4244	40 11395 05084 2	4	197
1725-182K	2CKA001754A4234	40 11395 05074 3	1	197
1725-183K	2CKA001754A4310	40 11395 07484 8	4	197
1725-184K-500	2CKA001754A4517	40 11395 17472 2	1	197
1725-280	2CKA001754A4441	40 11395 15699 5	4	201
1725-281	2CKA001754A4413	40 11395 12661 5	4	201
1725-283	2CKA001754A4547	40 11395 18561 2	4	201
1725-284	2CKA001754A4347	40 11395 11342 4	1	201
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1725-286	2CKA001754A4351	40 11395 11346 2	4	201
1725-287	2CKA001754A4353	40 11395 11348 6	4	201
1725-288	2CKA001754A4355	40 11395 11351 6	4	201
1725-291-500	2CKA001754A4475	40 11395 16553 9	4	201
1725-295-500	2CKA001754A4495	40 11395 16555 3	4	201
1725-296-500	2CKA001754A4490	40 11395 16557 7	1	201
1725-297-500	2CKA001754A4480	40 11395 16559 1	4	201
1725-299-500	2CKA001754A4485	40 11395 16562 1	4	201
1725-80	2CKA001754A4108	40 11395 99492 4	4	198
1725-80G	2CKA001754A4330	40 11395 11309 7	4	198
1725-831-500	2CKA001754A4609	40 11395 19537 6	4	203
1725-832-500	2CKA001754A4604	40 11395 19532 1	4	203
1725-833-500	2CKA001754A4579	40 11395 19499 7	4	203
1725-835-500	2CKA001754A4569	40 11395 19488 1	4	203
1725-836-500	2CKA001754A4574	40 11395 19494 2	4	203
1725-838-500	2CKA001754A4564	40 11395 19483 6	4	203
1725-84	2CKA001754A4113	40 11395 99619 5	1	198
1725-843-500	2CKA001754A4599	40 11395 19526 0	4	203
1725-845-500	2CKA001754A4589	40 11395 19515 4	4	203
1725-846-500	2CKA001754A4594	40 11395 19521 5	4	203
1725-848-500	2CKA001754A4584	40 11395 19505 5	4	203
1725-866K	2CKA001754A4321	40 11395 08842 5	4	199
1725-884K	2CKA001754A4418	40 11395 12828 2	1	197
1725-885K	2CKA001754A4423	40 11395 12834 3	4	197
2114-212	2CKA006599A1193	40 11395 37870 0	19	222

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2114-214-500	2CKA006599A3008	40 11395 17517 0	19	223
2CSY0200QEP	2CSY0200QEP	80 12542 31996 2		254
2CSY0200QLP	2CSY0200QLP	80 12542 19526 9		256
2CSY0200QSV	2CSY0200QSV	80 12542 20556 2		255
2CSY0200RLP	2CSY0200RLP	80 12542 19576 4		249
2CSY0201QEP	2CSY0201QEP	80 12542 31956 6		254
2CSY0201QGP	2CSY0201QGP	80 12542 30425 8		256
2CSY0201QMV	2CSY0201QMV	80 12542 30465 4		255
2CSY0201QWP	2CSY0201QWP	80 12542 20426 8		259
2CSY0201RGP	2CSY0201RGP	80 12542 30555 2		249
2CSY0201RWP	2CSY0201RWP	80 12542 20476 3		252
2CSY0202QLP	2CSY0202QLP	80 12542 19626 6		256
2CSY0202QSZ	2CSY0202QSZ	80 12542 18826 1		261
2CSY0202RLP	2CSY0202RLP	80 12542 19676 1		249
2CSY0202RSZ	2CSY0202RSZ	80 12542 18876 6		253
2CSY0203QLP	2CSY0203QLP	80 12542 19725 6		250
2CSY0204QLZ	2CSY0204QLZ	80 12542 19026 4		260
2CSY0204RLZ	2CSY0204RLZ	80 12542 19076 9		252
2CSY0205QLZ	2CSY0205QLZ	80 12542 19126 1		260
2CSY0205RLZ	2CSY0205RLZ	80 12542 19176 6		253
2CSY0206QLZ	2CSY0206QLZ	80 12542 19226 8		261
2CSY0206RLZ	2CSY0206RLZ	80 12542 19276 3		253
2CSY0207QLZ	2CSY0207QLZ	80 12542 19326 5		261
2CSY0207RLZ	2CSY0207RLZ	80 12542 19376 0		254
2CSY0210QSZ	2CSY0210QSZ	80 12542 32046 3		261
2CSY0210RSZ	2CSY0210RSZ	80 12542 32096 8		253
2CSY0211QLZ	2CSY0211QLZ	80 12542 28145 0		260
2CSY0211RLZ	2CSY0211RLZ	80 12542 28155 9		252
2CSY0221QSP	2CSY0221QSP	80 12542 19826 0		257
2CSY0221RSP	2CSY0221RSP	80 12542 19876 5		250
2CSY0222QSP	2CSY0222QSP	80 12542 19926 7		258
2CSY0222RSP	2CSY0222RSP	80 12542 19976 2		251
2CSY0223QSP	2CSY0223QSP	80 12542 20026 0		258
2CSY0223RSP	2CSY0223RSP	80 12542 20076 5		251
2CSY0224QMP	2CSY0224QMP	80 12542 30365 7		258
2CSY0224RMP	2CSY0224RMP	80 12542 30495 1		251
2CSY0225QSP	2CSY0225QSP	80 12542 20226 4		257
2CSY0225RSP	2CSY0225RSP	80 12542 20276 9		250
2CSY0226QSP	2CSY0226QSP	80 12542 20326 1		259
2CSY0226RSP	2CSY0226RSP	80 12542 20376 6		251
2CSY0300QEP	2CSY0300QEP	80 12542 32006 7		254
2CSY0300QLP	2CSY0300QLP	80 12542 19536 8		256
2CSY0300QSV	2CSY0300QSV	80 12542 20566 1		255
2CSY0300RLP	2CSY0300RLP	80 12542 19586 3		249
2CSY0301QEP	2CSY0301QEP	80 12542 31966 5		254
2CSY0301QGP	2CSY0301QGP	80 12542 30435 7		256
2CSY0301QMV	2CSY0301QMV	80 12542 30475 3		255
2CSY0301QWP	2CSY0301QWP	80 12542 20436 7		259
2CSY0301RGP	2CSY0301RGP	80 12542 30565 1		249
2CSY0301RWP	2CSY0301RWP	80 12542 20486 2		252
2CSY0302QLP	2CSY0302QLP	80 12542 19636 5		256
2CSY0302QSZ	2CSY0302QSZ	80 12542 18836 0		261
2CSY0302RLP	2CSY0302RLP	80 12542 19686 0		249
2CSY0302RSZ	2CSY0302RSZ	80 12542 18886 5		253
2CSY0303QLP	2CSY0303QLP	80 12542 19735 5		250
2CSY0304QLZ	2CSY0304QLZ	80 12542 19036 3		260
2CSY0304RLZ	2CSY0304RLZ	80 12542 19086 8		252
2CSY0305QLZ	2CSY0305QLZ	80 12542 19136 0		260
2CSY0305RLZ	2CSY0305RLZ	80 12542 19186 5		253
2CSY0306QLZ	2CSY0306QLZ	80 12542 19236 7		261
2CSY0306RLZ	2CSY0306RLZ	80 12542 19286 2		253
2CSY0307QLZ	2CSY0307QLZ	80 12542 19336 4		261
2CSY0307RLZ	2CSY0307RLZ	80 12542 19386 9		254

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Selection Table According to Type

Type	Oder code	EAN	PG	Page
2CSY0310QSZ	2CSY0310QSZ	80 12542 32056 2		261
2CSY0310RSZ	2CSY0310RSZ	80 12542 32106 4		253
2CSY0311QLZ	2CSY0311QLZ	80 12542 28165 8		260
2CSY0311RLZ	2CSY0311RLZ	80 12542 28175 7		252
2CSY0321QSP	2CSY0321QSP	80 12542 19836 9		257
2CSY0321RSP	2CSY0321RSP	80 12542 19886 4		250
2CSY0322QSP	2CSY0322QSP	80 12542 19936 6		258
2CSY0322RSP	2CSY0322RSP	80 12542 19986 1		251
2CSY0323QSP	2CSY0323QSP	80 12542 20036 9		258
2CSY0323RSP	2CSY0323RSP	80 12542 20086 4		251
2CSY0324QMP	2CSY0324QMP	80 12542 30375 6		258
2CSY0324RMP	2CSY0324RMP	80 12542 30505 7		251
2CSY0325QSP	2CSY0325QSP	80 12542 20236 3		257
2CSY0325RSP	2CSY0325RSP	80 12542 20286 8		250
2CSY0326QSP	2CSY0326QSP	80 12542 20336 0		259
2CSY0326RSP	2CSY0326RSP	80 12542 20386 5		251
2CSY0400QEP	2CSY0400QEP	80 12542 32016 6		254
2CSY0400QLP	2CSY0400QLP	80 12542 19546 7		256
2CSY0400QSV	2CSY0400QSV	80 12542 20576 0		255
2CSY0400RLP	2CSY0400RLP	80 12542 19596 2		249
2CSY0410RSZ	2CSY0410RSZ	80 12542 32115 6		253
2CSY0401QEP	2CSY0401QEP	80 12542 31976 4		254
2CSY0401QGP	2CSY0401QGP	80 12542 30445 6		256
2CSY0401QMV	2CSY0401QMV	80 12542 30485 2		255
2CSY0401QWP	2CSY0401QWP	80 12542 20446 6		259
2CSY0401RGP	2CSY0401RGP	80 12542 30575 0		249
2CSY0401RWP	2CSY0401RWP	80 12542 20496 1		252
2CSY0402QLP	2CSY0402QLP	80 12542 19646 4		256
2CSY0402QSZ	2CSY0402QSZ	80 12542 18846 9		261
2CSY0402RLP	2CSY0402RLP	80 12542 19696 9		249
2CSY0402RSZ	2CSY0402RSZ	80 12542 18896 4		253
2CSY0403QLP	2CSY0403QLP	80 12542 19745 4		250
2CSY0404QLZ	2CSY0404QLZ	80 12542 19046 2		260
2CSY0404RLZ	2CSY0404RLZ	80 12542 19096 7		252
2CSY0405QLZ	2CSY0405QLZ	80 12542 19146 9		260
2CSY0405RLZ	2CSY0405RLZ	80 12542 19196 4		253
2CSY0406QLZ	2CSY0406QLZ	80 12542 19246 6		261
2CSY0406RLZ	2CSY0406RLZ	80 12542 19296 1		253
2CSY0407QLZ	2CSY0407QLZ	80 12542 19346 3		261
2CSY0407RLZ	2CSY0407RLZ	80 12542 19396 8		254
2CSY0410QSZ	2CSY0410QSZ	80 12542 32066 1		261
2CSY0411QLZ	2CSY0411QLZ	80 12542 28185 6		260
2CSY0411RLZ	2CSY0411RLZ	80 12542 28195 5		252
2CSY0421QSP	2CSY0421QSP	80 12542 19846 8		257
2CSY0421RSP	2CSY0421RSP	80 12542 19896 3		250
2CSY0422QSP	2CSY0422QSP	80 12542 19946 5		258
2CSY0422RSP	2CSY0422RSP	80 12542 19996 0		251
2CSY0423QSP	2CSY0423QSP	80 12542 20046 8		258
2CSY0423RSP	2CSY0423RSP	80 12542 20096 3		251
2CSY0424QMP	2CSY0424QMP	80 12542 30385 5		258
2CSY0424RMP	2CSY0424RMP	80 12542 30515 6		251
2CSY0425QSP	2CSY0425QSP	80 12542 20246 2		257
2CSY0425RSP	2CSY0425RSP	80 12542 20296 7		250
2CSY0426QSP	2CSY0426QSP	80 12542 20346 9		259
2CSY0426RSP	2CSY0426RSP	80 12542 20396 4		251
2CSY0700QEP	2CSY0700QEP	80 12542 32026 5		254
2CSY0700QLP	2CSY0700QLP	80 12542 19556 6		256
2CSY0700RLP	2CSY0700RLP	80 12542 19606 8		249
2CSY0701QEP	2CSY0701QEP	80 12542 31986 3		254
2CSY0701QGP	2CSY0701QGP	80 12542 30455 5		256
2CSY0701QWP	2CSY0701QWP	80 12542 20456 5		259
2CSY0701RGP	2CSY0701RGP	80 12542 30585 9		249
2CSY0701RWP	2CSY0701RWP	80 12542 20506 7		252

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2CSY0702QLP	2CSY0702QLP	80 12542 19656 3		256
2CSY0702QSZ	2CSY0702QSZ	80 12542 18856 8		261
2CSY0702RLP	2CSY0702RLP	80 12542 19706 5		249
2CSY0702RSZ	2CSY0702RSZ	80 12542 18906 0		253
2CSY0703QLP	2CSY0703QLP	80 12542 19755 3		250
2CSY0704QLZ	2CSY0704QLZ	80 12542 19056 1		260
2CSY0704RLZ	2CSY0704RLZ	80 12542 19106 3		252
2CSY0705QLZ	2CSY0705QLZ	80 12542 19156 8		260
2CSY0705RLZ	2CSY0705RLZ	80 12542 19206 0		253
2CSY0706QLZ	2CSY0706QLZ	80 12542 19256 5		261
2CSY0706RLZ	2CSY0706RLZ	80 12542 19306 7		253
2CSY0707QLZ	2CSY0707QLZ	80 12542 19356 2		261
2CSY0707RLZ	2CSY0707RLZ	80 12542 19406 4		254
2CSY0710QSZ	2CSY0710QSZ	80 12542 32076 0		261
2CSY0710RSZ	2CSY0710RSZ	80 12542 32126 2		253
2CSY0711QLZ	2CSY0711QLZ	80 12542 28205 1		260
2CSY0711RLZ	2CSY0711RLZ	80 12542 28215 0		252
2CSY0721QSP	2CSY0721QSP	80 12542 19856 7		257
2CSY0721RSP	2CSY0721RSP	80 12542 19906 9		250
2CSY0722QSP	2CSY0722QSP	80 12542 19956 4		258
2CSY0722RSP	2CSY0722RSP	80 12542 20006 2		251
2CSY0723QSP	2CSY0723QSP	80 12542 20056 7		258
2CSY0723RSP	2CSY0723RSP	80 12542 20106 9		251
2CSY0724QMP	2CSY0724QMP	80 12542 30395 4		258
2CSY0724RMP	2CSY0724RMP	80 12542 30525 5		251
2CSY0725QSP	2CSY0725QSP	80 12542 20256 1		257
2CSY0725RSP	2CSY0725RSP	80 12542 20306 3		250
2CSY0726QSP	2CSY0726QSP	80 12542 20356 8		259
2CSY0726RSP	2CSY0726RSP	80 12542 20406 0		251
2CSY0800QLP	2CSY0800QLP	80 12542 19566 5		256
2CSY0800RLP	2CSY0800RLP	80 12542 19616 7		249
2CSY0801QGP	2CSY0801QGP	80 12542 30415 9		256
2CSY0801QWP	2CSY0801QWP	80 12542 20466 4		259
2CSY0801RGP	2CSY0801RGP	80 12542 30545 3		249
2CSY0801RWP	2CSY0801RWP	80 12542 20516 6		252
2CSY0802QLP	2CSY0802QLP	80 12542 19666 2		256
2CSY0802QSZ	2CSY0802QSZ	80 12542 18866 7		261
2CSY0802RLP	2CSY0802RLP	80 12542 19716 4		249
2CSY0802RSZ	2CSY0802RSZ	80 12542 18916 9		253
2CSY0803QLP	2CSY0803QLP	80 12542 19765 2		250
2CSY0804QLZ	2CSY0804QLZ	80 12542 19066 0		260
2CSY0804RLZ	2CSY0804RLZ	80 12542 19116 2		252
2CSY0805QLZ	2CSY0805QLZ	80 12542 19166 7		260
2CSY0805RLZ	2CSY0805RLZ	80 12542 19216 9		253
2CSY0806QLZ	2CSY0806QLZ	80 12542 19266 4		261
2CSY0806RLZ	2CSY0806RLZ	80 12542 19316 6		253
2CSY0807QLZ	2CSY0807QLZ	80 12542 19366 1		261
2CSY0807RLZ	2CSY0807RLZ	80 12542 19416 3		254
2CSY0810QSZ	2CSY0810QSZ	80 12542 32035 7		261
2CSY0810RSZ	2CSY0810RSZ	80 12542 32085 2		253
2CSY0811QLZ	2CSY0811QLZ	80 12542 28225 9		260
2CSY0811RLZ	2CSY0811RLZ	80 12542 28235 8		252
2CSY0821QSP	2CSY0821QSP	80 12542 19866 6		257
2CSY0821RSP	2CSY0821RSP	80 12542 19916 8		250
2CSY0822QSP	2CSY0822QSP	80 12542 19966 3		258
2CSY0822RSP	2CSY0822RSP	80 12542 20016 1		251
2CSY0823QSP	2CSY0823QSP	80 12542 20066 6		258
2CSY0823RSP	2CSY0823RSP	80 12542 20116 8		251
2CSY0824QMP	2CSY0824QMP	80 12542 30405 0		258
2CSY0824RMP	2CSY0824RMP	80 12542 30535 4		251
2CSY0825QSP	2CSY0825QSP	80 12542 20266 0		257
2CSY0825RSP	2CSY0825RSP	80 12542 20316 2		250
2CSY0826QSP	2CSY0826QSP	80 12542 20366 7		259

Type	Oder code	EAN	PG	Page
2CSY0826RSP	2CSY0826RSP	80 12542 20416 9		251
2CSYK1001C	2CSYK1001C	80 12542 14855 5		244
2CSYK1001S	2CSYK1001S	80 12542 14995 8		244
2CSYK1002C	2CSYK1002C	80 12542 14865 4		244
2CSYK1002S	2CSYK1002S	80 12542 15005 3		244
2CSYK1003C	2CSYK1003C	80 12542 14875 3		244
2CSYK1003S	2CSYK1003S	80 12542 15015 2		244
2CSYK1012C	2CSYK1012C	80 12542 26915 1		245
2CSYK1012S	2CSYK1012S	80 12542 26925 0		245
2CSYK1022C	2CSYK1022C	80 12542 57452 1		245
2CSYK1022S	2CSYK1022S	80 12542 56272 6		245
2CSYK1023C	2CSYK1023C	80 12542 56362 4		244
2CSYK1023S	2CSYK1023S	80 12542 58632 6		244
2CSYK1101C	2CSYK1101C	80 12542 14885 2		245
2CSYK1101S	2CSYK1101S	80 12542 15025 1		245
2CSYK1102C	2CSYK1102C	80 12542 14895 1		245
2CSYK1102S	2CSYK1102S	80 12542 15035 0		245
2CSYK1103C	2CSYK1103C	80 12542 14905 7		246
2CSYK1103S	2CSYK1103S	80 12542 15045 9		246
2CSYK1104C	2CSYK1104C	80 12542 14915 6		246
2CSYK1104S	2CSYK1104S	80 12542 15055 8		246
2CSYK1105C	2CSYK1105C	80 12542 14925 5		246
2CSYK1105S	2CSYK1105S	80 12542 15065 7		246
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Type	Oder code	EAN	PG	Page
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Selection Table According to Type

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6126/01-82-500	2CKA006116A0196	40 11395 13986 8	26	189	6131/31-183-500	2CKA006132A0349	40 11395 18596 4	26	65
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6126/01-84-500	2CKA006116A0174	40 11395 13574 7	26	189	6131/38-183-500	2CKA006132A0404	40 11395 21658 3	26	68
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6126/01-884-500	2CKA006116A0204	40 11395 13996 7	26	189	6131/39-183-500	2CKA006132A0354	40 11395 18601 5	26	67
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6126/02-884-500	2CKA006116A0216	40 11395 14009 3	26	192	6136/07-825-500	2CKA006136A0206	40 11395 22344 4	26	102
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6354 U-500	2CKA006310A0097	40 11395 11897 9	34	176
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6356 U-500	2CKA006310A0099	40 11395 11899 3	34	176
6404 U	2CKA006401A0055	40 11395 09383 2	14	271
6541-20	2CKA006599A1466	40 11395 38100 7	19	222
6541-21	2CKA006599A1524	40 11395 38150 2	19	222
6541-22G	2CKA006599A2795	40 11395 91730 5	19	222
6541-24	2CKA006599A1557	40 11395 38180 9	19	222
6541-24G	2CKA006599A2332	40 11395 70860 6	19	222
6541-260	2CKA006599A2853	40 11395 00548 4	19	222
6541-266	2CKA006599A2856	40 11395 00634 4	19	222
6541-72	2CKA006599A2918	40 11395 08281 2	19	222
6541-74	2CKA006599A2076	40 11395 54180 7	19	222
6541-774	2CKA006599A2971	40 11395 12956 2	19	222
6541-775	2CKA006599A2975	40 11395 13692 8	19	222
6541-777	2CKA006599A2933	40 11395 10754 6	19	222
6541-783	2CKA006599A2919	40 11395 08346 8	19	222
6541-79	2CKA006599A2142	40 11395 55810 2	19	222
6541-803	2CKA006599A2940	40 11395 11115 4	19	222
6541-81	2CKA006599A2882	40 11395 05642 4	19	222

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6541-83	2CKA006599A2885	40 11395 07445 9	19	222
6541-84	2CKA006599A2835	40 11395 99663 8	19	222
6541-866	2CKA006599A2924	40 11395 08815 9	19	222
6541-884	2CKA006599A2962	40 11395 12964 7	19	222
6541-885	2CKA006599A2967	40 11395 12965 4	19	222
6595 U	2CKA006590A0188	40 11395 09385 6	14	271
6701-101-500	2CKA006700A0040	40 11395 18264 2	16	267
6702-500	2CKA006700A0023	40 11395 13434 4	16	267
6703-500	2CKA006700A0024	40 11395 13436 8	16	267
6704-500	2CKA006700A0025	40 11395 13437 5	16	268
6705-101-500	2CKA006700A0042	40 11395 18266 6	16	268
6720-64	2CKA006720A0001	40 11395 09372 6	16	272
6720-65	2CKA006720A0002	40 11395 09381 8	16	272
6720-66	2CKA006720A0003	40 11395 09382 5	16	272
6721-64	2CKA006720A0004	40 11395 12211 3	16	272
6721-65	2CKA006720A0005	40 11395 12212 0	16	272
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6730-20	2CKA006730A0007	40 11395 09353 5	16	269
6730-21	2CKA006730A0008	40 11395 09354 2	16	269
6730-212	2CKA006730A0001	40 11395 09336 8	16	269
6730-214	2CKA006730A0002	40 11395 09337 5	16	269
6730-22G	2CKA006730A0009	40 11395 09355 9	16	269
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6730-24G	2CKA006730A0011	40 11395 09357 3	16	269
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6730-896-500	2CKA006730A0066	40 11395 16710 6	16	270
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6731-214-500	2CKA006730A0030	40 11395 13406 1	16	264
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6731-83-500	2CKA006730A0035	40 11395 13422 1	16	264
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6731-84-500	2CKA006730A0038	40 11395 13425 2	16	264
6731-866-500	2CKA006730A0041	40 11395 13429 0	16	264
6732-212-500	2CKA006730A0029	40 11395 13405 4	16	264
6732-214-500	2CKA006730A0031	40 11395 13407 8	16	264
6732-82-500	2CKA006730A0033	40 11395 13409 2	16	264
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6747 AGM-204-500	2CKA006700A0035	40 11395 17588 0	29	266
6747 AGM-208-500	2CKA006700A0036	40 11395 17589 7	29	266
6747 AGM-35-500	2CKA006700A0037	40 11395 17590 3	29	266
6770-500	2CKA006770A0002	40 11395 14797 9	26	17
6780-500	2CKA006780A0001	40 11395 13433 7	16	265
6824-84	2CKA006800A2516	40 11395 13747 5	14	129
6828	2CKA006800A2514	40 11395 13745 1	14	128

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6833-84-500	2CKA006800A2720	40 11395 18696 1	14	128
6835/01-84-500	2CKA006800A2723	40 11395 18699 2	14	128
6868-201-500	2CKA006800A2565	40 11395 15101 3	29	69
6868-204-500	2CKA006800A2562	40 11395 15097 9	29	69
6868-208-500	2CKA006800A2563	40 11395 15098 6	29	69
6868-35-500	2CKA006800A2564	40 11395 15099 3	29	69
8136/01 UP-500	2CKA008136A0032	40 11395 15891 3	34	104
8136/09-811-500	2CKA008136A0024	40 11395 15877 7	34	103
8136/09-825-500	2CKA008136A0026	40 11395 15879 1	34	103
8136/12-811-500	2CKA008136A0028	40 11395 15882 1	34	103
8136/12-825-500	2CKA008136A0030	40 11395 15884 5	34	103
8186/03-500	2CKA008100A0344	40 11395 17146 2	32	15
8186/04-500	2CKA008100A0346	40 11395 17148 6	32	15
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AA/S 4.1.2	2CDG110202R0011	40 16779 96237 7	26	40
ABA/S 1.2.1	2CDG110192R0011	40 16779 92993 6	26	94
ABL/S 2.1	2CDG110073R0011	40 16779 65264 3	26	94
ABZ/S 2.1	2CDG110072R0011	40 16779 65236 0	26	94
AC/S 1.1.1	2CDG110205R0011	40 16779 01180 8	26	92
AC/S 1.2.1	2CDG110206R0011	40 16779 01580 6	26	92
AE/A 2.1	2CDG110086R0011	40 16779 66401 1	26	34
AE/S 4.1.1.3	2CDG110190R0011	40 16779 92929 5	26	34
AM/S 12.1	GHQ6310062R0111	40 16779 51481 1	26	10
AMD5053	2CLA627190N1001	84 27238 09914 9		232
AMD5153-AG	2CLA637100N1601	84 27238 09683 4		232
AMD5153-MG	2CLA637100N1701	84 27238 09684 1		232
AMD5153-SB	2CLA637100N1501	84 27238 09682 7		232
AMD5153-ST	2CLA637100N1101	84 27238 09681 0		232
AMD5253-AG	2CLA667200N1601	84 27238 09691 9		232
AMD5253-MG	2CLA667200N1701	84 27238 09692 6		232
AMD5253-SB	2CLA667200N1501	84 27238 09690 2		232
AMD5253-ST	2CLA667200N1101	84 27238 09689 6		232
AMSE	GHV9250010V0003	40 16779 49290 4	50	122
AMSP	GHV9250010V0004	40 16779 49280 5	50	122
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BCE/Z 1.1	2CDG120069R0011	40 16779 06447 7	20	90
BCI/S 1.1.1	2CDG110222R0011	40 16779 01165 5	26	89
BCM/S 16.1.1	2CDG120064R0011	40 16779 06442 2	20	90
BCM/S 16.2.0.1	2CDG120063R0011	40 16779 06441 5	20	90
BCM/S 16.1.3.1	2CDG120065R0011	40 16779 06443 9	20	90
BCM/S 2.6.0.1	2CDG120068R0011	40 16779 06446 0	20	91
BCM/S 6.5.5.1	2CDG120067R0011	40 16779 06445 3	20	91
BCM/S 8.0.2.1	2CDG120066R0011	40 16779 06444 6	20	91
BDB/S 1.1	2CDG110067R0011	40 16779 65753 2	26	112
BE/M 4.12.1	2CDG110007R0011	40 16779 58313 8	26	25
BE/M 4.230.1	2CDG110005R0011	40 16779 58311 4	26	25
BE/M 4.24.1	2CDG110006R0011	40 16779 58312 1	26	25
BE/S 4.20.2.1	2CDG110090R0011	40 16779 71078 7	26	33
BE/S 4.230.2.1	2CDG110091R0011	40 16779 71106 7	26	33
BE/S 8.20.2.1	2CDG110092R0011	40 16779 71076 3	26	33
BE/S 8.230.2.1	2CDG110093R0011	40 16779 71077 0	26	33
BT/A 1.1	2CDG280001R0011	40 16779 92556 3	26	119
BT/A 2.1	2CDG280002R0011	40 16779 96336 7	26	119
BUSKLEMME	GHQ6301901R0001	40 12233 80230 2	20	18
CH/T 2	2CSKK5400C	80 12542 26415 6		138
CP-D 12/0.83	1SVR427041R1000	40 13614 52375 5		12
CP-D 12/2.1	1SVR427043R1200	40 13614 52376 2		12
CP-D 24/0.42	1SVR427041R0000	40 13614 52377 9		12
CP-D 24/1.3	1SVR427043R0100	40 13614 52378 6		12
CP-D 24/2.5	2CDG120037R0011	40 16779 69789 7	20	12
CP-D 24/4.2	1SVR427045R0400	40 13614 52379 3		12

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CP-D RU	1SVR427049R0000	40 13614 52380 9		12
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CP-FCC-214	2CKA006220A0246	40 11395 18749 4	24	224
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CP-FCC-81	2CKA006220A0242	40 11395 18745 6	24	224
CP-FCC-82	2CKA006220A0532	40 11395 20571 6	24	224
CP-FCC-83	2CKA006220A0243	40 11395 18746 3	24	224
CP-FCC-84	2CKA006220A0244	40 11395 18747 0	24	224
CP-FCC-866	2CKA006220A0549	40 11395 20573 0	24	224
CP-FCC-884	2CKA006220A0617	40 11395 20582 2	24	224
CP-FCC-885	2CKA006220A0634	40 11395 20584 6	24	224
DG/S 1.64.1.1	2CDG110198R0011	40 16779 94266 9	26	52
DG/S 2.64.1.1	2CDG110199R0011	40 16779 94285 0	26	52
DG/S 8.1	2CDG110025R0011	40 16779 58582 8	26	52
DLR/A 4.8.1.1	2CDG110172R0011	40 16779 88237 8	26	53
DLR/S 8.16.1M	2CDG110101R0011	40 16779 67656 4	26	53
DR/S 4.1	2CDG110029R0011	40 16779 58755 6	26	11
DSM/S 1.1	2CDG110060R0011	40 16779 65205 6	26	18
EG/A 32.2.1	2CDG120047R0011	40 16779 94257 7	26	16
EIM/D	2CDG230039R0011	40 16779 87766 4	50	123
EIM/KB	2CDG230028R0011	40 16779 75717 1	50	123
EIM/KC	2CDG230029R0011	40 16779 75718 8	50	123
EIM/XB	2CDG230025R0011	40 16779 67879 7	50	120
EIM/XC	2CDG230026R0011	40 16779 67880 3	50	120
EM/S 3.16.1	2CDG110148R0011	40 16779 87706 0	26	108
ER/U 1.1	GHQ6310044R0111	40 16779 49725 1	26	77
ES/M 2.230.1	2CDG110013R0011	40 16779 58361 9	26	26
ES/M 2.24.1	2CDG110014R0011	40 16779 58362 6	26	26
ES/S 4.1.2.1	2CDG110058R0011	40 16779 67206 1	26	77
ES/S 8.1.2.1	2CDG110059R0011	40 16779 67207 8	26	77
ESPE	GHV9250010V0001	40 13232 70140 5	50	122
ESPE/M	2CDG270010R0011	40 16779 94560 8	50	122
EUB/S 1.1	2CDG110066R0011	40 16779 64991 9	26	112
EVSB	GHV9250010V0002	40 16779 44170 4	50	122
FAD/A 1.1	2CDG120040R0011	40 16779 90668 5	20	95
FAG/A 1.1	2CDG120041R0011	40 16779 90669 2	20	95
FC600/BREL	2CDG430051R0011	40 16779 70840 1	50	127
FC650/O	2CDG430079R0011	40 16779 86479 4	50	127
FC650/TMAX	2CDG430081R0011	40 16779 86477 0	50	127
FCA/S 1.1.1.2	2CDG110195R0011	40 16779 94219 5	26	84
FCA/S 1.1.2.2	2CDG110194R0011	40 16779 94218 8	26	84
FCA/S 1.2.1.2	2CDG110196R0011	40 16779 94222 5	26	84
FCA/S 1.2.2.2	2CDG110193R0011	40 16779 94217 1	26	84
FCC/S 1.1.1.1	2CDG110210R0011	40 16779 01142 6	26	82
FCC/S 1.1.2.1	2CDG110211R0011	40 16779 01143 3	26	82
FCC/S 1.2.1.1	2CDG110212R0011	40 16779 01144 0	26	82
FCC/S 1.2.2.1	2CDG110213R0011	40 16779 01145 7	26	82
FCC/S 1.3.1.1	2CDG110214R0011	40 16779 01146 4	26	83
FCC/S 1.3.2.1	2CDG110215R0011	40 16779 01147 1	26	83
FCC/S 1.4.1.1	2CDG110209R0011	40 16779 01141 9	26	83
FCC/S 1.5.1.1	2CDG110234R0011	40 16779 01151 8	26	84
FCC/S 1.5.2.1	2CDG110235R0011	40 16779 01152 5	26	84
FCL/S 1.6.1.1	2CDG110163R0011	40 16779 87788 6	26	85
FCL/S 2.6.1.1	2CDG110164R0011	40 16779 87787 9	26	85
FW/S 8.2.1	2CDG120039R0011	40 16779 90666 1	20	95
GM/A 8.1	2CDG110150R0011	40 16779 90630 2	26	119
GP2	GHV9220004V0004	40 13232 66670 4	50	124
HCC/S 2.1.1.1	2CDG110218R0011	40 16779 01161 7	26	88
HCC/S 2.1.2.1	2CDG110219R0011	40 16779 01162 4	26	88
HCC/S 2.2.1.1	2CDG110220R0011	40 16779 01163 1	26	88
HCC/S 2.2.2.1	2CDG110221R0011	40 16779 01164 8	26	88
HS/S 4.2.1	2CDG120044R0011	40 16779 90672 2	20	61
IO/S 4.6.1.1	2CDG110168R0011	40 16779 88107 4	26	40

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N2274 CV	2CLA227400N1902	84 27238 11235 0		242
N2274 OX	2CLA227400N4002	84 27238 11236 7		242
N2274 PL	2CLA227400N1302	84 27238 11237 4		242
N2274 PZ	2CLA227400N2202	84 27238 11238 1		242
N2274 WG	2CLA227400N2102	84 27238 11239 8		242
N2274.1 AN	2CLA227410N1802	84 27238 11240 4		242
N2274.1 BL	2CLA227410N1102	84 27238 11241 1		242
N2274.1 CV	2CLA227410N1902	84 27238 11242 8		242
N2274.1 PL	2CLA227410N1302	84 27238 11243 5		242
N2371.9V	2CLA237190N1002	84 27238 10674 8		243
N2372.1 AN	2CLA237210N1802	84 27238 10676 2		243
N2372.1 BL	2CLA237210N1102	84 27238 10197 2		243
N2372.1 CB	2CLA237200N3002	84 27238 10680 9		243
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N2372.1 OX	2CLA237200N4002	84 27238 10682 3		243
N2372.1 PL	2CLA237210N1302	84 27238 10675 5		243
N2372.1 PZ	2CLA237200N2202	84 27238 10679 3		243
N2373.9	2CLA237390N1002	84 27238 10199 6		243
ND/W	GHQ7132443R0011	40 13232 02540 2	50	125
NDA/W	GHQ7132443R0004	40 13232 61690 7	50	125
NDU/W	GHQ7132443R0021	40 13232 02550 1	50	125
NT/S 12.1600	GHQ6050056R0002	40 16779 51467 5	20	12
NT/S 24.800	GHQ6050057R0002	40 16779 51468 2	20	12
NTI/Z 28.30.1	2CDG110096R0011	40 16779 66316 8	26	11
NTU/S 12.2000.1	2CDG110070R0011	40 16779 68117 9	26	12
PK/E 2.1	2CDG120043R0011	40 16779 90671 5	20	96
PRT/U 1.1.CH	2CSKK5300C	80 12542 26395 1		139
PRT/U 1.1.MC	2CSYK5300C	80 12542 26445 3		138
PRT/U 1.1.MS	2CSYK5300S	80 12542 26485 9		138
PS 1/4/6-KNX	2CDG924003R0011	40 16779 66758 6	20	18
PS 1/60/6-KNX	2CDG924004R0011	40 16779 66759 3	20	18
PS/E 2.1	2CDG120042R0011	40 16779 90670 8	20	95
PS-END 1-S	2CDL000001R0001	40 16779 66698 5		18
PTI/U 1.1.CH	2CSKK5200C	80 12542 26385 2		139
PTI/U 1.1.MC	2CSYK5200C	80 12542 26435 4		137
PTI/U 1.1.MS	2CSYK5200S	80 12542 26475 0		137
QA/S 3.16.1	2CDG110226R0011	40 16779 99775 1	26	111
QA/S 3.64.1	2CDG110227R0011	40 16779 99776 8	26	111
QA/S 4.16.1	2CDG110228R0011	40 16779 99777 5	26	111
QA/S 4.64.1	2CDG110229R0011	40 16779 99778 2	26	111
RC/A 4.2	2CDG110104R0011	40 16779 67647 2	26	24
RC/A 8.2	2CDG110106R0011	40 16779 68126 1	26	24
RM/S 1.1	2CDG110094R0011	40 16779 66556 8	26	28
RM/S 2.1	2CDG110095R0011	40 16779 66567 4	26	28
RM/S 3.1	2CDG110165R0011	40 16779 88106 7	26	28
RM/S 4.1	2CDG110170R0011	40 16779 88126 5	26	28
RTK	GHQ3201973R0021	40 16779 50655 7	50	124
SA/M 2.16.1	2CDG110100R0011	40 16779 68158 2	26	25
SA/M 2.6.1	2CDG110002R0011	40 16779 58314 5	26	25
SA/S 12.10.2.1	2CDG110158R0011	40 16779 87780 0	26	38
SA/S 12.16.2.1	2CDG110162R0011	40 16779 87776 3	26	39
SA/S 12.16.5.1	2CDG110137R0011	40 16779 71117 4	26	39
SA/S 12.16.6.1	2CDG110138R0011	40 16779 76516 9	26	39
SA/S 12.6.1.1	2CDG110154R0011	40 16779 87784 8	26	38
SA/S 12.6.2.1	2CDG110183R0011	40 16779 92515 0	26	38
SA/S 2.10.2.1	2CDG110155R0011	40 16779 87783 1	26	38
SA/S 2.16.2.1	2CDG110159R0011	40 16779 87779 4	26	39
SA/S 2.16.5.1	2CDG110132R0011	40 16779 70827 2	26	39

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SA/S 2.16.6.1	2CDG110112R0011	40 16779 70830 2	26	39
SA/S 2.6.2.1	2CDG110180R0011	40 16779 92506 8	26	38
SA/S 4.10.2.1	2CDG110156R0011	40 16779 87782 4	26	38
SA/S 4.16.2.1	2CDG110160R0011	40 16779 87778 7	26	39
SA/S 4.16.5.1	2CDG110133R0011	40 16779 70828 9	26	39
SA/S 4.16.6.1	2CDG110113R0011	40 16779 70831 9	26	39
SA/S 4.6.1.1	2CDG110152R0011	40 16779 87786 2	26	38
SA/S 4.6.2.1	2CDG110181R0011	40 16779 92509 9	26	38
SA/S 8.10.2.1	2CDG110157R0011	40 16779 87781 7	26	38
SA/S 8.16.2.1	2CDG110161R0011	40 16779 87777 0	26	39
SA/S 8.16.5.1	2CDG110134R0011	40 16779 70829 6	26	39
SA/S 8.16.6.1	2CDG110114R0011	40 16779 70832 6	26	39
SA/S 8.6.1.1	2CDG110153R0011	40 16779 87785 5	26	38
SA/S 8.6.2.1	2CDG110182R0011	40 16779 92513 6	26	38
SAB/A.0.1-84	2CKA006330A0020	40 11395 25550 6	26	186
SAD/GAP	2CDG220021R0011	40 13614 50362 7	50	121
SAF/A 1.0.1-24	2CKA006134A0348	40 11395 25211 6	26	85
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SAK17	GHV9240001V0013	40 13232 74495 2	50	11
SAK7	GHV9240001V0011	40 13232 74493 8	50	11
SAR/A 1.0.1-24	2CKA006134A0346	40 11395 25209 3	26	85
SAS/A.0.1-84	2CKA006330A0018	40 11395 25548 3	26	186
SB/U12.0.1-84	2CKA006330A0016	40 11395 25546 9	26	185
SB/U8.0.1-84	2CKA006330A0014	40 11395 25524 7	26	185
SBC/U10.0.1-84	2CKA006330A0012	40 11395 25521 6	26	185
SBC/U6.0.1-84	2CKA006330A0010	40 11395 25519 3	26	185
SBR/U10.0.1-84	2CKA006330A0008	40 11395 25517 9	26	185
SBR/U6.0.1-84	2CKA006330A0004	40 11395 25566 7	26	184
SBS/U10.0.1-84	2CKA006330A0006	40 11395 25512 4	26	184
SBS/U6.0.1-84	2CKA006330A0002	40 11395 25508 7	26	184
SCM/S 1.1	2CDG110024R0011	40 16779 58391 6	26	115
SCS	GHQ3050027R0001	40 16779 58575 0	50	121
SD/M 2.6.2	2CDG110107R0011	40 16779 68066 0	26	25
SD/S 2.16.1	2CDG110079R0011	40 16779 65996 3	26	58
SD/S 4.16.1	2CDG110080R0011	40 16779 65937 6	26	58
SD/S 8.16.1	2CDG110081R0011	40 16779 65918 5	26	58
SE/K 1.868.1	2CDG120051R0011	40 16779 99699 0	20	78
SE/S 3.16.1	2CDG110136R0011	40 16779 70977 4	26	108
SGL	GHQ3050008R0001	40 16779 53313 3	50	126
SJR/S 4.24.2.1	2CDG110143R0011	40 16779 86446 6	26	47
SLB/A.0.1-84	2CKA006330A0026	40 11395 25556 8	26	186
SLM/A.0.1-84	2CKA006330A0024	40 11395 25554 4	26	186
SLS/A.0.1-84	2CKA006330A0022	40 11395 25552 0	26	186
SLX/A.0.1-84	2CKA006330A0028	40 11395 25558 2	26	187
SMB/S 1.1	GHQ6310085R0111	40 16779 58092 2	26	112
SPGS/B	GHV9220004V0010	40 13232 61430 9	50	124
SPGS/W	GHV9220004V0009	40 13232 61420 0	50	124
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SR-1-214	2CKA006220A0183	40 11395 18113 3	24	211
SR-1-803	2CKA006220A0550	40 11395 20386 6	24	211
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SR-1-82	2CKA006220A0516	40 11395 20345 3	24	211
SR-1-83	2CKA006220A0138	40 11395 18217 8	24	211
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SR-1-840	2CKA006220A0371	40 11395 19559 8	24	211
SR-1-866	2CKA006220A0533	40 11395 20369 9	24	211
SR-1-884	2CKA006220A0601	40 11395 20433 7	24	211
SR-1-885	2CKA006220A0618	40 11395 20451 1	24	211
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SR-2-214	2CKA006220A0193	40 11395 18119 5	24	216
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SR-2-81	2CKA006220A0152	40 11395 18155 3	24	216
SR-2-82	2CKA006220A0521	40 11395 20350 7	24	216

Type	Oder code	EAN	PG	Page	Type	Oder code	EAN	PG	Page
SR-2-83	2CKA006220A0153	40 11395 18223 9	24	216	SRL-1-803	2CKA006220A0551	40 11395 20387 3	24	212
SR-2-84	2CKA006220A0154	40 11395 18188 1	24	216	SRL-1-81	2CKA006220A0140	40 11395 18151 5	24	212
SR-2-840	2CKA006220A0376	40 11395 19564 2	24	216	SRL-1-82	2CKA006220A0517	40 11395 20346 0	24	212
SR-2-866	2CKA006220A0538	40 11395 20375 0	24	216	SRL-1-83	2CKA006220A0141	40 11395 18218 5	24	212
SR-2-884	2CKA006220A0606	40 11395 20439 9	24	216	SRL-1-84	2CKA006220A0142	40 11395 18184 3	24	212
SR-2-885	2CKA006220A0623	40 11395 20456 6	24	216	SRL-1-840	2CKA006220A0372	40 11395 19560 4	24	212
SRB-1-212	2CKA006220A0186	40 11395 18076 1	24	213	SRL-1-866	2CKA006220A0534	40 11395 20370 5	24	212
SRB-1-214	2CKA006220A0187	40 11395 18115 7	24	213	SRL-1-884	2CKA006220A0602	40 11395 20434 4	24	212
SRB-1-803	2CKA006220A0552	40 11395 20388 0	24	213	SRL-1-885	2CKA006220A0619	40 11395 20452 8	24	212
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SRD-1-885	2CKA006220A0622	40 11395 20455 9	24	215	SRS-1-840	2CKA006220A0374	40 11395 19562 8	24	214
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SRD-2-R-803	2CKA006220A0560	40 11395 20397 2	24	219	SRS-2-R-212	2CKA006220A0206	40 11395 18088 4	24	218
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SRD-2-R-82	2CKA006220A0526	40 11395 20364 4	24	219	SRS-2-R-803	2CKA006220A0562	40 11395 20399 6	24	218
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SRD-2-R-884	2CKA006220A0611	40 11395 20445 0	24	219	SRS-2-R-840	2CKA006220A0382	40 11395 19571 0	24	218
SRD-2-R-885	2CKA006220A0628	40 11395 20462 7	24	219	SRS-2-R-866	2CKA006220A0545	40 11395 20383 5	24	218
SRL-1-212	2CKA006220A0184	40 11395 18075 4	24	212	SRS-2-R-884	2CKA006220A0613	40 11395 20447 4	24	218
SRL-1-214	2CKA006220A0185	40 11395 18114 0	24	212	SRS-2-R-885	2CKA006220A0630	40 11395 20464 1	24	218

Selection Table According to Type

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SSS	GHV9270001V0001	40 13232 02320 0	50	129
ST/K 1.1	2CDG120004R0011	40 16779 63022 1	20	77
STR/Z 1.50.1	2CDG110149R0011	40 16779 87716 9	20	19
SUG/U 1.1	2CDG110207R0011	40 16779 99736 2	26	78
SV/S 30.160.1.1	2CDG110144R0011	40 16779 86666 8	26	9
SV/S 30.320.1.1	2CDG110166R0011	40 16779 90619 7	26	9
SV/S 30.320.2.1	2CDG110145R0011	40 16779 83766 8	26	10
SV/S 30.640.3.1	2CDG110167R0011	40 16779 90621 0	26	9
SV/S 30.640.5.1	2CDG110146R0011	40 16779 86669 9	26	10
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SWM 4	GHQ4030001R0004	40 13232 05740 3	50	126
SWM4/RN	GHQ4030001R0012	40 13232 05750 2	50	126
TA/U3.1.1-CG	2CKA006300A1549	40 11395 23084 8	26	163
TA/U3.2.1-CG	2CKA006300A1585	40 11395 23122 7	26	171
TA/U3.3.1-CG	2CKA006300A1597	40 11395 23136 4	26	167
TB/U1.1.1-CG	2CKA006300A1538	40 11395 23072 5	26	160
TB/U1.2.1-CG	2CKA006300A1578	40 11395 23115 9	26	169
TB/U1.3.1-CG	2CKA006300A1590	40 11395 23128 9	26	166
TB/U12.7.1-CG	2CKA006300A1543	40 11395 23077 0	26	161
TB/U12.8.1-CG	2CKA006300A1544	40 11395 23078 7	26	161
TB/U2.4.1-CG	2CKA006300A1539	40 11395 23073 2	26	160
TB/U2.5.1-CG	2CKA006300A1540	40 11395 23074 9	26	160
TB/U2.7.1-CG	2CKA006300A1580	40 11395 23117 3	26	166
TB/U2.8.1-CG	2CKA006300A1579	40 11395 23116 6	26	166
TB/U4.4.1-CG	2CKA006300A1541	40 11395 23075 6	26	160
TB/U4.5.1-CG	2CKA006300A1612	40 11395 25626 8	26	160
TB/U4.7.1-CG	2CKA006300A1581	40 11395 23118 0	26	169
TB/U4.8.1-CG	2CKA006300A1593	40 11395 23132 6	26	166
TB/U6.4.1-CG	2CKA006300A1542	40 11395 23076 3	26	161
TB/U6.5.1-CG	2CKA006300A1602	40 11395 25416 5	26	161
TB/U6.7.1-CG	2CKA006300A1582	40 11395 23119 7	26	169
TB/U6.8.1-CG	2CKA006300A1594	40 11395 23133 3	26	166
TBR/U4.7.1-CG	2CKA006300A1545	40 11395 23079 4	26	162
TBR/U4.8.1-CG	2CKA006300A1546	40 11395 23081 7	26	162
TBW/U.1.1-CG	2CKA006300A1548	40 11395 23083 1	26	163
TBW/U.2.1-CG	2CKA006300A1584	40 11395 23121 0	26	170
TBW/U.3.1-CG	2CKA006300A1596	40 11395 23135 7	26	167
TH/U 1.1	2CSY265232R2021	80 12542 65232 8		136
TKK/U.1.1-CG	2CKA006300A1552	40 11395 23087 9	26	164
TKK/U.3.1-CG	2CKA006300A1588	40 11395 23125 8	26	168
TKM/U.1.1-CG	2CKA006300A1553	40 11395 23088 6	26	165
TKM/U.3.1-CG	2CKA006300A1589	40 11395 23127 2	26	168
TLM/U.1.1-CG	2CKA006300A1550	40 11395 23085 5	26	134
TLM/U.2.1-CG	2CKA006300A1587	40 11395 23124 1	26	134
TLM/U.3.1-CG	2CKA006300A1599	40 11395 23139 5	26	134
TR/A 1.1	2CDG120060R0011	40 16779 01572 1	20	96
TR/U 1.1	2CSY235683R2001	80 12542 35683 7		136
TR/U.1.1-CG	2CKA006300A1547	40 11395 23082 4	26	162
TR/U.2.1-CG	2CKA006300A1583	40 11395 23120 3	26	170
TR/U.3.1-CG	2CKA006300A1595	40 11395 23134 0	26	167
T-RAHM, SR	GHQ6050059R0012	40 16779 49586 8	20	97
T-RAHM, WS	GHQ6050059R0011	40 16779 49585 1	20	97
TS/T 1	2CSY259412R2041	80 12542 59412 3		137
TSA/K 230.2	2CDG120049R0011	40 16779 95067 1	20	78
TSA/K 24.2	2CDG120050R0011	40 16779 95068 8	20	78
TSM/U.2.1-CG	2CKA006300A1555	40 11395 23090 9	26	135
TSN/U.2.1-CG	2CKA006300A1603	40 11395 25417 2	26	171
UD/M 1.300.1	2CDG110012R0011	40 11395 04281 6	26	26
UD/S 2.300.2	2CDG110074R0011	40 16779 66306 9	26	60
UD/S 4.210.2.1	2CKA006197A0047	40 11395 25186 7	33	59
UD/S 6.210.2.1	2CKA006197A0049	40 11395 25188 1	33	59

Type	Oder code	EAN	PG	Page
UK/S 32.2	2CDG110071R0011	40 16779 65577 4	26	97
UP-KAST 2	GHQ6050059R0014	40 16779 51396 8	20	97
US/E 1	GHQ6310009R0001	40 16779 00570 8	20	18
US/U 12.2	2CDG110065R0011	40 16779 65012 0	26	33
US/U 2.2	GHQ6310074R0111	40 16779 56483 0	26	33
US/U 4.2	GHQ6310070R0111	40 16779 56481 6	26	33
USB/S 1.1	2CDG110008R0011	40 16779 58921 5	26	16
VA/Z 10.1	2CDG120009R0011	40 16779 65319 0	20	78
VA/Z 50.1	2CDG120010R0011	40 16779 65320 6	20	78
VA/Z 78.1	2CDG120011R0011	40 16779 65321 3	20	78
VA/Z 80.1	2CDG120012R0011	40 16779 65322 0	20	78
VAA/A 6.24.2	2CDG120061R0011	40 16779 06371 5	20	76
VAA/S 12.230.2.1	2CDG110117R0011	40 16779 82987 8	26	76
VAA/S 6.230.2.1	2CDG110116R0011	40 16779 82986 1	26	76
VB/K 100.1	GHQ6301908R0003	40 16779 50103 3	20	18
VB/K 200.1	GHQ6301908R0001	40 16779 46980 7	20	18
VB/K 270.1	GHQ6301908R0002	40 16779 46990 6	20	18
VB/K 360.1	GHQ6301908R0004	40 16779 84676 9	20	18
VC/S 4.1.1	2CDG110216R0011	40 16779 01148 8	26	76
VC/S 4.2.1	2CDG110217R0011	40 16779 01149 5	26	76
VCO/S 99.1	2CKA006136A0217	40 11395 26317 4	34	105
VMRS/B	GHQ3201972R0012	40 16779 50657 1	50	124
VMRS/W	GHQ3201972R0011	40 16779 50658 8	50	124
VSUE	GHV9210018V0022	40 13232 70120 7	50	125
WA/Z 1.1	2CDG110174R0011	40 16779 90637 1	26	119
WEL/A, ES	GHQ3050023R0001	40 16779 58570 5	50	122
WELT/A, ES	GHQ3050024R0001	40 16779 58571 2	50	122
WES/A 3.1	2CDG120046R0011	40 16779 92893 9	20	34
WRK/W	2CDG250003R0011	40 16779 66404 2	50	125
WS/S 4.1.1.2	2CDG110191R0011	40 16779 92937 0	26	34
WZ/S 1.3.1.2	2CDG110184R0011	40 16779 58612 2	26	34
ZS/S 1.1	2CDG110083R0011	40 16779 66207 9	26	108

Notes

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Further Information and Local Contacts:
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