



PRODUCT-DETAILS

CR-M230AC4

CR-M230AC4 Pluggable interface relay 4c/o,
A1-A2=230VAC, 250V/6A



General Information	
Extended Product Type	CR-M230AC4
Product ID	1SVR405613R3000
EAN	4013614497759
Catalog Description	CR-M230AC4 Pluggable interface relay 4c/o, A1-A2=230VAC, 250V/6A
Long Description	The CR-M230AC4 pluggable interface relay is a miniature relay, which is to be plugged into a suitable ABB CR-M socket. Plugged into a socket, the combination of relay and socket may be seamlessly snap-on mounted onto a DIN Rail. This relay operates with a 230 V AC rated control supply voltage and has a 4 c/o (SPDT) output with contacts rated at 250 V / 6A, enabling the possibility of switching multiple circuits with a single input signal. The relay has an integrated test button which is used for the manual actuation of the relay by locking it's output contacts. The test button facilitates easy testing and commissioning. The relay also has an integrated LED, which provides the visual indication of the energization of the relay coil. Standard sockets, logic sockets, pluggable function modules, holders and markers are available as accessories. Standard sockets, logical sockets, pluggable function modules, holder and marker are available as accessories.
Ordering	
EAN	4013614497759

Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC110004C0210_05
Instructions and Manuals	1SVC405600M9000
CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132577_EPLAN

Dimensions

Product Net Width	21.2 mm
Product Net Height	35.6 mm
Product Net Depth / Length	27.5 mm
Product Net Weight	0.033 kg

Technical

Function	Pluggable miniature interface relay CR-M
Sub-Function	Relay w/o built in LED
Rated Control Supply Voltage (U _s)	230 V AC
Rated Operational Voltage	250 V AC
Rated Frequency (f)	50 / 60 Hz
Output	4 C/O (SPDT) Contacts
Output Signal	250 V / 6 A
Terminal Type	Flat-Pin Connections
Rated Operational Current AC-12 (I _e)	(230 V) 6 A
Rated Operational Current AC-15 (I _e)	(120 V) 1.5 A (230 V) 1 A
Rated Operational Current DC-12 (I _e)	(24 V) 6 A
Rated Operational Current DC-13 (I _e)	(24 V) 2 A (250 V) 0.1 A
Rated Insulation Voltage (U _i)	250 V
Degree of Protection	IP40
Mounting Position	1
Standards	CAN/CSA C22.2 No.14 IEC/EN 63000 IEC/EN 61810-1 UL 508

Technical UL/CSA

Maximum Operating Voltage UL/CSA	300 V AC
Contact Rating UL/CSA	B300

Pilot Duty UL/CSA	B300
Flammability According to UL94	HB

Environmental

Ambient Air Temperature	Operation -40 ... +55 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Declaration	1SVD981001-4401
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006536

Certificates and Declarations

CCC Certificate	CCC_2014010303720193
CQC Certificate	CQC2014010303720193
CSA Certificate	CSA_2735700
cUR Certificate	cUR_E244330
Declaration of Conformity - CCC	2020980303000200
Declaration of Conformity - CE	1SVD982021-0003
Declaration of Conformity - UKCA	1SVD982021-1000
EAC Certificate	EAC_RU_C-DE.ME77.B.00446-19
LR Certificate	LR_05_20002_E5
RMRS Certificate	RMRS_1740019250
UR Certificate	UR_E244330
VDE Certificate	VDE_40040327

Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	114 mm
Package Level 1 Depth / Length	50 mm
Package Level 1 Height	61 mm
Package Level 1 Gross Weight	0.35 kg
Package Level 1 EAN	4013614373565

External Classifications and Standards

Object Classification	K
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Code	
ETIM 7	EC001437 - Switching relay
ETIM 8	EC001437 - Switching relay
ETIM 9	EC001437 - Switching relay
eClass	V11.0 : 27371601
UNSPSC	39122331
E-Number (Finland)	2712709
E-Number (Norway)	4187383
E-Number (Sweden)	4005355

Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Interface Relays and Optocouplers

Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)





PRODUCT-DETAILS

1S9SW100

AGS54 NTC10k Outdoor temperature sensor



General Information	
Global Commercial Alias	1S9SW100
Extended Product Type	AGS54
Product ID	2CQG505101R2021
EAN	5391539124257
Catalog Description	AGS54 NTC10k Outdoor temperature sensor
Long Description	NTC10k, -50...+90 °C, Housing: Polyamide white, IP65, 65 x 50 x 37.5 mm.
Installation	
Instructions and Manuals	No document needed
Environmental	
Ambient Air Temperature	-25 ... 90 °C
Degree of Protection	IP65 IP43

Technical	
Data Sheet, Technical Information	9AKK108471A2092
Application	Outside
Measuring Range	RelativeAirHumidity 0 ... 85 %
Connection Type	Wired
Cover Mounting Type	Screw
Sensor Type	NTC10K with Transducer
Number of Batteries	0

Electrical	
Supply Voltage	AC 21.6 ... 26.4 V DC 15 ... 24 V
Power Supply Type	External

Design	
Element Material	Stainless Steel
RAL Number	RAL 9010 - Pure White
Color	Beige
Housing Color	White

Dimensions	
Product Net Width	65 mm
Product Net Height	45 mm
Product Net Depth / Length	50 mm
Product Net Weight	0.1 kg

Material Compliance	
RoHS Information	No declaration needed
REACH Information	No data - If REACH inform is not yet available for a certain product
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Certificates and Declarations	
Declaration of Conformity - CE	No declaration needed
EU Data Act Compliance Declaration	9AKK108471A0690
EU Data Act Applicability and Compliance	2025 Applicable - Compliant

External Classifications and Standards	
ETIM 9	EC004240 - Sensor (HVAC)
ETIM 10	EC004240 - Sensor (HVAC)

Categories

Low Voltage Products and Systems → Building and Home Automation Solutions → Building Management Solutions → Sensors and Thermostats → Temperature Sensors (10k NTC Wired)





PRODUCT-DETAILS

TM-C 160/12-24

TM-C 160/12-24 Single phase control transformer



General Information	
Extended Product Type	TM-C 160/12-24
Product ID	2CSM236853R0801
EAN	8012542368533
Catalog Description	TM-C 160/12-24 Single phase control transformer
Long Description	Transformer for supplying control circuits, for example commands, signalling, interlocks, etc.

Technical	
Power Supply	160 V·A
Insulation Class	F
Fuse Type	aM
Material of Conductor	Copper
Cable Cross-Section	6 mm²

Electrical	
Rated Insulation Voltage (U _i)	3.5 kV
Primary Voltage	230-400 V AC

Secondary Voltage	12-24 V AC
Rated Frequency (f)	50/60 Hz
Power Loss	Total 19 W

Material Compliance

RoHS Declaration	9AKK106713A5643
RoHS Information	Following EU Directive 2011/65/EU
RoHS Date	20190722
REACH Declaration	9AKK108467A9482
REACH Information	False - does not contain substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Environmental

Ambient Temperature	max. 40 °C
Environmental Information	See RoHS Information

Dimensions

Product Net Width	100 mm
Product Net Height	110 mm
Product Net Depth / Length	90 mm
Product Net Weight	2.57 kg

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	3 kg

Certificates and Declarations

Declaration of Conformity - CE	9AKK106713A5643
UL Certificate	9AKK108467A9066

Installation

Instructions and Manuals	No document needed
Wiring Diagram	9AKK108466A7419

Popular Downloads

Data Sheet, Technical Information	2CSC446005B0202
Inrush Power Curve	9AKK108467A2987
Transformer Protection Selection Table	9AKK108467A2982

Power Draw According to Altitude	9AKK108467A2983
Power Draw According to Temperature	9AKK108467A2985
Admissible Overload	9AKK108467A2986

External Classifications and Standards

ETIM 9	EC002486 - One-phase control transformer
ETIM 10	EC002486 - One-phase control transformer
UNSPSC	39121026
eClass	V11.0 : 27031302
Object Classification Code	T
Standards	EN 61558-2-2 , UL506 , CSA C22-2-N66
Certification Agency	ENEC UR RINA
Standardization Body	CSA

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Command and Signalling Devices → Industrial Single-Phase Transformers





PRODUCT-DETAILS

1M101110-CZ

FLX-16DI I/O module for FBXi, CBXi, CBX



General Information	
Global Commercial Alias	1M101110-CZ
Extended Product Type	FLX-16DI
Product ID	2CQG200714R1021
EAN	5391539127937
Catalog Description	FLX-16DI I/O module for FBXi, CBXi, CBX
Long Description	16-Point Field Level eXpansion (FLX) I/O module for CBX. Module features 16 Digital Inputs. A maximum of three FLX modules may be added to a single CBX.

Installation	
Instructions and Manuals	MAN0106 MAN0149

Environmental	
Ambient Air Temperature	Around the Enclosure -25 ... 50 °C
Degree of Protection	Housing IP20

Technical	
Data Sheet, Technical Information	DS0129 BDS0021
Communication Interface	FLX-Bus

Electrical	
	3.2 W

Dimensions	
Product Net Width	100 mm
Product Net Height	57 mm
Product Net Depth / Length	90 mm
Product Net Weight	0.2 kg

Material Compliance	
RoHS Declaration	CDOC1801
RoHS Information	Following EU Directive 2011/65/EU
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Certificates and Declarations	
Declaration of Conformity - CE	CDOC1801

External Classifications and Standards	
ETIM 9	EC010957 - Free programmable controller extension
ETIM 10	EC010957 - Free programmable controller extension

Categories

Low Voltage Products and Systems → Building and Home Automation Solutions → Building Management Solutions → BACnet Building Control → FLX Expansion IO Modules

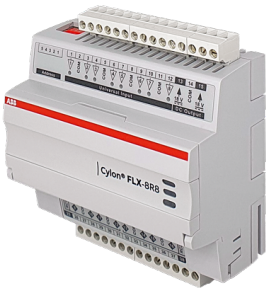




PRODUCT-DETAILS

1M101100-CZ

FLX-8R8 I/O module for FBXi, CBXi, CBX



General Information	
Global Commercial Alias	1M101100-CZ
Extended Product Type	FLX-8R8
Product ID	2CQG200710R1021
EAN	5391539127968
Catalog Description	FLX-8R8 I/O module for FBXi, CBXi, CBX
Long Description	16-Point Field Level eXpansion (FLX) I/O module for CBX. Module features 8 UniPuts™ with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. A maximum of three FLX modules may be added to a single CBX.

Installation	
Instructions and Manuals	MAN0106 MAN0149

Environmental	
Ambient Air Temperature	Around the Enclosure -25 ... 50 °C
Degree of Protection	Housing IP20

Technical

Data Sheet, Technical Information	DS0129 BDS0021
Communication Interface	FLX-Bus

Electrical

	4.9 W
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Dimensions

Product Net Width	100 mm
Product Net Height	57 mm
Product Net Depth / Length	90 mm
Product Net Weight	0.2 kg

Material Compliance

RoHS Declaration	CDOC1801
RoHS Information	Following EU Directive 2011/65/EU
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Certificates and Declarations

Declaration of Conformity - CE	CDOC1801
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External Classifications and Standards

ETIM 9	EC010957 - Free programmable controller extension
ETIM 10	EC010957 - Free programmable controller extension

Categories

Low Voltage Products and Systems → Building and Home Automation Solutions → Building Management Solutions → BACnet Building Control → FLX Expansion IO Modules





PRODUCT-DETAILS

CR-M4SS

CR-M4SS Standard socket for 2c/o or 4c/o CR-M relay



General Information	
Extended Product Type	CR-M4SS
Product ID	1SVR405651R3000
EAN	4013614528675
Catalog Description	CR-M4SS Standard socket for 2c/o or 4c/o CR-M relay
Long Description	The CR-M4SS socket is from the CR-M (miniature) relay range. The standard socket is suitable for CR-M relays with 2 and 4 c/o (SPDT) output contacts. The socket has screw connection terminals. Pluggable function modules, holder and marker are available as accessories.

Ordering	
EAN	4013614528675
Minimum Order Quantity	10 piece
Customs Tariff Number	85366990

Popular Downloads	
Data Sheet, Technical Information	2CDC110004C0210_05
Instructions and Manuals	1SVC405650M9000

CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132577 EPLAN

Dimensions

Product Net Width	27 mm
Product Net Height	42.5 mm
Product Net Depth / Length	82 mm
Product Net Weight	0.07 kg

Technical

Function	Accessory for interface relays CR-M
Sub-Function	Socket for miniature relays
Sub-Function 2	Standard socket for miniature relay 2 c/o or 4 c/o
Rated Operational Voltage	250 V
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I _θ)	(230 V) 7 A
Rated Insulation Voltage (U _i)	3 V
Mounting Position	1
Standards	CAN/CSA C22.2 No.14 IEC/EN 63000 IEC/EN 61984 UL 508

Technical UL/CSA

Connecting Capacity Main Circuit UL/CSA	Flexible with Ferrule 2x 20-16 AWG Rigid 2x 20-14 AWG Stranded 2 x 20-14 AWG
Flammability According to UL94	V-0

Environmental

Ambient Air Temperature	Operation -40 ... +70 °C Storage -40 ... +70 °C
Maximum Operating Altitude Permissible	2000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Declaration	1SVD981001-4401
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006536

Certificates and Declarations

CSA Certificate	CSA_262671_2785566
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cURus Certificate	cURus508_E244328
Declaration of Conformity - CE	1SVD982020-0001
Declaration of Conformity - UKCA	1SVD982020-1000
EAC Certificate	EAC RU C-DE.ME77.B.00446-19

Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	141 mm
Package Level 1 Depth / Length	78 mm
Package Level 1 Height	95 mm
Package Level 1 Gross Weight	0.702 kg
Package Level 1 EAN	4013614373800

External Classifications and Standards

Object Classification Code	K
ETIM 7	EC001456 - Relay socket
ETIM 8	EC001456 - Relay socket
ETIM 9	EC001456 - Relay socket
eClass	V11.0 : 27371603
UNSPSC	39122335
E-Number (Finland)	2712717
E-Number (Norway)	4187433
E-Number (Sweden)	4005374

Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Interface Relays and Optocouplers
Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)





PRODUCT-DETAILS

CR-M230AC4L

CR-M230AC4L Pluggable interface relay 4c/o,
A1-A2=230VAC, 250V/6A, LED



General Information	
Extended Product Type	CR-M230AC4L
Product ID	1SVR405613R3100
EAN	4013614497766
Catalog Description	CR-M230AC4L Pluggable interface relay 4c/o, A1-A2=230VAC, 250V/6A, LED
Long Description	The CR-M230AC4L pluggable interface relay is a miniature relay, which is to be plugged into a suitable ABB CR-M socket. Plugged into a socket, the combination of relay and socket may be seamlessly snap-on mounted onto a DIN Rail. This relay operates with a 230 V AC rated control supply voltage and has a 4 c/o (SPDT) output with contacts rated at 250 V / 6A, enabling the possibility of switching multiple circuits with a single input signal. The relay has an integrated test button which is used for the manual actuation of the relay by locking it's output contacts. The test button facilitates easy testing and commissioning. The relay also has an integrated LED, which provides the visual indication of the energization of the relay coil. Standard sockets, logic sockets, pluggable function modules, holders and markers are available as accessories. Standard sockets, logical sockets, pluggable function modules, holder and marker are available as accessories.
Ordering	
EAN	4013614497766

Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC110004C0210_05
Instructions and Manuals	1SVC405600M9000
CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132577_EPLAN

Dimensions

Product Net Width	21.2 mm
Product Net Height	35.6 mm
Product Net Depth / Length	27.5 mm
Product Net Weight	0.033 kg

Technical

Function	Pluggable miniature interface relay CR-M
Sub-Function	Relay with built in LED
Rated Control Supply Voltage (U _s)	230 V AC
Rated Operational Voltage	250 V AC
Rated Frequency (f)	50 / 60 Hz
Output	4 C/O (SPDT) Contacts
Output Signal	250 V / 6 A
Terminal Type	Flat-Pin Connections
Rated Operational Current AC-12 (I _e)	(230 V) 6 A
Rated Operational Current AC-15 (I _e)	(120 V) 1.5 A (230 V) 1 A
Rated Operational Current DC-12 (I _e)	(24 V) 6 A
Rated Operational Current DC-13 (I _e)	(24 V) 2 A (250 V) 0.1 A
Rated Insulation Voltage (U _i)	250 V
Degree of Protection	IP40
Mounting Position	1
Standards	CAN/CSA C22.2 No.14 IEC/EN 63000 IEC/EN 61810-1 UL 508

Technical UL/CSA

Maximum Operating Voltage UL/CSA	300 V AC
Contact Rating UL/CSA	B300

Pilot Duty UL/CSA	B300
Flammability According to UL94	HB

Environmental

Ambient Air Temperature	Operation -40 ... +55 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Declaration	1SVD981001-4401
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006536

Certificates and Declarations

CCC Certificate	CCC_2014010303720193
CQC Certificate	CQC2014010303720193
CSA Certificate	CSA_2735700
cUR Certificate	cUR_E244330
Declaration of Conformity - CCC	2020980303000200
Declaration of Conformity - CE	1SVD982021-0003
Declaration of Conformity - UKCA	1SVD982021-1000
EAC Certificate	EAC_RU_C-DE.ME77.B.00446-19
LR Certificate	LR_05_20002_E5
RMRS Certificate	RMRS_1740019250
UR Certificate	UR_E244330
VDE Certificate	VDE_40040327

Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	114 mm
Package Level 1 Depth / Length	50 mm
Package Level 1 Height	61 mm
Package Level 1 Gross Weight	0.35 kg
Package Level 1 EAN	4013614373657

External Classifications and Standards

Object Classification	K
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Code	
ETIM 7	EC001437 - Switching relay
ETIM 8	EC001437 - Switching relay
ETIM 9	EC001437 - Switching relay
eClass	V11.0 : 27371601
UNSPSC	39122331
E-Number (Finland)	2712710
E-Number (Norway)	4187416
E-Number (Sweden)	4005356

Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Interface Relays and Optocouplers





PRODUCT-DETAILS

CL2-523Y

CL2-523Y Pilot Light



360°

General Information

Extended Product Type	CL2-523Y
Product ID	1SFA619403R5233
EAN	7320500556412
Catalog Description	CL2-523Y Pilot Light
Long Description	The CL2-523Y Pilot Light is: Compact - Pilot Light - Pilot light head - Yellow - Illuminated - 230V AC This Pilot Light is part of ABB's compact range, the most efficient all-in-one solution available, reducing installation time and cost. The compact range has a high level of dust and water resistance.

Ordering

Minimum Order Quantity	10 piece
Customs Tariff Number	8536619090

Popular Downloads

Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201

Dimensions

Product Net Width	0.03 m
Product Net Height	0.03 m
Product Net Depth / Length	0.052 m
Product Net Weight	0.018 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Yellow
Actuator Type	Pilot light head
Illumination	Illuminated
Lamp Type	230 V AC, integrated LED
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Pollution Degree	3
Rated Frequency (f)	Supply Circuit 50 / 60 Hz
Rated Operational Voltage	230 V AC Supply Circuit 230V AC V
Connecting Capacity	Flexible with Ferrule 1 x 0.75...2.5 mm² Flexible with Ferrule 2 x 0.75...2.5 mm² Flexible with Insulated Ferrule 1 x 0.75...2.5 mm² Flexible with Insulated Ferrule 2 x 0.75...2.5 mm² Flexible 1 x 0.75 ... 2.5 mm² Flexible 2 x 0.75 ... 2.5 mm² Solid 1 x 0.75...2.5 mm² Solid 2 x 0.75...2.5 mm²
Connection Type	Screw Clamp
Terminal Type	Screw Terminals
Tightening Torque	0.9 N·m
Wire Stripping Length	8 mm

Technical UL/CSA

Connecting Capacity	1x 18...14 AWG
UL/CSA	2x 18...14 AWG

Environmental

Degree of Protection	Front IP66 Front IP67 Front IP69K Terminals IP20
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control
Act - TSCA

2CMT2023-006523

WEEE B2C / B2B

Business To Business

WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CB Certificate	CQC_CN_CN50749
CQC Certificate	CQC2003010305054693
cULus Certificate	UL_E496500-20171020
cURus Certificate	UL_E496500-20171020
Declaration of Conformity - CCC	2020980305001187
Declaration of Conformity - CE	2CMT2015-005451
Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	9AKK107046A3749
EAC Certificate	EAC-RU C-CN.ME77.B.00690_20

Container Information

Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.235 m
Package Level 1 Depth / Length	0.125 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.184 kg
Package Level 1 EAN	7320500475508

External Classifications and Standards

Object Classification Code	P
ETIM 6	EC000272 - Indicator light complete
ETIM 7	EC000272 - Indicator light complete
ETIM 8	EC000272 - Indicator light complete
eClass	V11.0 : 27371223
UNSPSC	39121534
IDEA Granular Category Code (IGCC)	4766 >> Indicator or pilot lights
E-Number (Finland)	2313555
E-Number (Norway)	4373537
E-Number (Sweden)	3705778

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Compact Range → CL Compact Pilot Lights





PRODUCT-DETAILS

CL2-523G

CL2-523G Pilot Light



360°

General Information

Extended Product Type	CL2-523G
Product ID	1SFA619403R5232
EAN	7320500556405
Catalog Description	CL2-523G Pilot Light
Long Description	The CL2-523G Pilot Light is: Compact - Pilot Light - Pilot light head - Green - Illuminated - 230V AC This Pilot Light is part of ABB's compact range, the most efficient all-in-one solution available, reducing installation time and cost. The compact range has a high level of dust and water resistance.

Ordering

Minimum Order Quantity	10 piece
Customs Tariff Number	8536619090

Popular Downloads

Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201

Dimensions

Product Net Width	0.03 m
Product Net Height	0.03 m
Product Net Depth / Length	0.052 m
Product Net Weight	0.018 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Green
Actuator Type	Pilot light head
Illumination	Illuminated
Lamp Type	230 V AC, integrated LED
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Pollution Degree	3
Rated Frequency (f)	Supply Circuit 50 / 60 Hz
Rated Operational Voltage	230 V AC Supply Circuit 230V AC V
Connecting Capacity	Flexible with Ferrule 1 x 0.75...2.5 mm² Flexible with Ferrule 2 x 0.75...2.5 mm² Flexible with Insulated Ferrule 1 x 0.75...2.5 mm² Flexible with Insulated Ferrule 2 x 0.75...2.5 mm² Flexible 1 x 0.75 ... 2.5 mm² Flexible 2 x 0.75 ... 2.5 mm² Solid 1 x 0.75...2.5 mm² Solid 2 x 0.75...2.5 mm²
Connection Type	Screw Clamp
Terminal Type	Screw Terminals
Tightening Torque	0.9 N·m
Wire Stripping Length	8 mm

Technical UL/CSA

Connecting Capacity	1x 18...14 AWG
UL/CSA	2x 18...14 AWG

Environmental

Degree of Protection	Front IP66 Front IP67 Front IP69K Terminals IP20
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control
Act - TSCA

2CMT2023-006523

WEEE B2C / B2B

Business To Business

WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CB Certificate	CQC_CN_CN50749
CQC Certificate	CQC2003010305054693
cULus Certificate	UL_E496500-20171020
cURus Certificate	UL_E496500-20171020
Declaration of Conformity - CCC	2020980305001187
Declaration of Conformity - CE	2CMT2015-005451
Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	9AKK107046A3749
EAC Certificate	EAC-RU C-CN.ME77.B.00690_20

Container Information

Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.235 m
Package Level 1 Depth / Length	0.125 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.184 kg
Package Level 1 EAN	7320500475492

External Classifications and Standards

Object Classification Code	P
ETIM 6	EC000272 - Indicator light complete
ETIM 7	EC000272 - Indicator light complete
ETIM 8	EC000272 - Indicator light complete
eClass	V11.0 : 27371223
UNSPSC	39121534
IDEA Granular Category Code (IGCC)	4766 >> Indicator or pilot lights
E-Number (Finland)	2313554
E-Number (Norway)	4373536
E-Number (Sweden)	3705777

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Compact Range → CL Compact Pilot Lights





PRODUCT-DETAILS

CL2-523R

CL2-523R Pilot Light



360°

General Information	
Extended Product Type	CL2-523R
Product ID	1SFA619403R5231
EAN	7320500556399
Catalog Description	CL2-523R Pilot Light
Long Description	The CL2-523R Pilot Light is: Compact - Pilot Light - Pilot light head - Red - Illuminated - 230V AC
	This Pilot Light is part of ABB's compact range, the most efficient all-in-one solution available, reducing installation time and cost.
	The compact range has a high level of dust and water resistance.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8536619090

Popular Downloads	
Data Sheet, Technical	1SFC151007C02__

Information

Instructions and Manuals	1SFC151011M0201
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Dimensions

Product Net Width	0.03 m
Product Net Height	0.03 m
Product Net Depth / Length	0.052 m
Product Net Weight	0.018 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Red
Actuator Type	Pilot light head
Illumination	Illuminated
Lamp Type	230 V AC, integrated LED
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Pollution Degree	3
Rated Frequency (f)	Supply Circuit 50 / 60 Hz
Rated Operational Voltage	230 V AC Supply Circuit 230V AC V
Connecting Capacity	Flexible with Ferrule 1 x 0.75...2.5 mm ² Flexible with Ferrule 2 x 0.75...2.5 mm ² Flexible with Insulated Ferrule 1 x 0.75...2.5 mm ² Flexible with Insulated Ferrule 2 x 0.75...2.5 mm ² Flexible 1 x 0.75 ... 2.5 mm ² Flexible 2 x 0.75 ... 2.5 mm ² Solid 1 x 0.75...2.5 mm ² Solid 2 x 0.75...2.5 mm ²
Connection Type	Screw Clamp
Terminal Type	Screw Terminals
Tightening Torque	0.9 N·m
Wire Stripping Length	8 mm

Technical UL/CSA

Connecting Capacity	1x 18...14 AWG
UL/CSA	2x 18...14 AWG

Environmental

Degree of Protection	Front IP66 Front IP67 Front IP69K Terminals IP20
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CB Certificate	CQC_CN_CN50749
CQC Certificate	CQC2003010305054693
cULus Certificate	UL_E496500-20171020
cURus Certificate	UL_E496500-20171020
Declaration of Conformity - CCC	2020980305001187
Declaration of Conformity - CE	2CMT2015-005451
Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	9AKK107046A3749
EAC Certificate	EAC-RU C-CN.ME77.B.00690_20

Container Information

Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.235 m
Package Level 1 Depth / Length	0.125 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.184 kg
Package Level 1 EAN	7320500475485

External Classifications and Standards

Object Classification Code	P
ETIM 6	EC000272 - Indicator light complete
ETIM 7	EC000272 - Indicator light complete
ETIM 8	EC000272 - Indicator light complete
eClass	V11.0 : 27371223
UNSPSC	39121534
IDEA Granular Category Code (IGCC)	4766 >> Indicator or pilot lights
E-Number (Finland)	2313553
E-Number (Norway)	4373535
E-Number (Sweden)	3705776

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Compact Range → CL Compact Pilot Lights

Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)





PRODUCT-DETAILS

C3SS1-10B-20

C3SS1-10B-20 Selector Switch



360°

General Information	
Extended Product Type	C3SS1-10B-20
Product ID	1SFA619210R1026
EAN	7320500555330
Catalog Description	C3SS1-10B-20 Selector Switch
Long Description	The C3SS1-10B-20 Selector Switch is: Compact - Selector Switch - 3-position - Maintained - Short handle - Black - Non-illuminated - Black Plastic - 2NO - 2 NO - 0 NC - 300 V This Selector Switch is part of ABB's compact range, the most efficient all-in-one solution available, reducing installation time and cost. The compact range has a high level of dust and water resistance.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8536508000

Popular Downloads	
Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201

Dimensions

Product Net Width	0.03 m
Product Net Height	0.03 m
Product Net Depth / Length	0.072 m
Product Net Weight	0.024 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Black
Actuator Type	Short handle
Bezel Material	Plastic
Illumination	Non-illuminated
Function	Maintained
Sub-Function	3-position
Maintained Positions	A, B, C
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	2
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Rated Insulation Voltage (U _i)	300 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Rated Frequency (f)	50 / 60 Hz
Rated Operational Voltage	Maximum 300 V
Rated Operational Current DC-13 (I _θ)	(24 V) 0.3 A (125 V) 0.2 A
Rated Operational Current AC-15 (I _θ)	(240 V) 2 A (220 / 240 V) 2 A
Power Loss	Maximum 5 W
Mechanical Durability	0.5 million
Connecting Capacity	Flexible with Ferrule 1 x 0.5...1.5 mm² Flexible with Ferrule 2 x 0.5...1.5 mm² Flexible with Insulated Ferrule 1 x 0.5...1.5 mm² Flexible with Insulated Ferrule 2 x 0.5...1.5 mm² Flexible 1 x 0.5 ...1.5 mm² Flexible 2 x 0.5 ...1.5 mm² Solid 1 x 0.5...1.5 mm² Solid 2 x 0.5...1.5 mm²
Terminal Type	Screw Terminals
Tightening Torque	0.8 N·m
Wire Stripping Length	6 mm

Technical UL/CSA

Connecting Capacity	1x 22...14 AWG
UL/CSA	2x 22...14 AWG

Environmental

Degree of Protection

Front IP66
Front IP67
Front IP69K
Terminals IP20**Material Compliance**

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CB Certificate	CQC_CN_CN50749
CQC Certificate	CQC2003010305054693
cURus Certificate	UL E496500-20171020
Declaration of Conformity - CCC	2020980305001187
Declaration of Conformity - CE	2CMT2015-005451
Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	9AKK107046A3749
EAC Certificate	RU C-CN.ME77.B.00587/20

Container Information

Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.235 m
Package Level 1 Depth / Length	0.125 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.24 kg
Package Level 1 EAN	7320500246726

External Classifications and Standards

Object Classification Code	S
ETIM 6	EC001029 - Selector switch, complete
ETIM 7	EC001029 - Selector switch, complete
ETIM 8	EC001029 - Selector switch, complete
eClass	V11.0 : 27371243
UNSPSC	39122217
IDEA Granular Category Code (IGCC)	5215 >> Selector Switch Complete Assemblies
E-Number (Finland)	2312899
E-Number (Norway)	4372694
E-Number (Sweden)	3711306

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Compact Range → CSS Compact Selector Switches

Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)





PRODUCT-DETAILS

MLBL-07R

MLBL-07R LED block



360°

General Information	
Extended Product Type	MLBL-07R
Product ID	1SFA611621R1071
EAN	7320500544860
Catalog Description	MLBL-07R LED block
Long Description	The MLBL-07R LED block is: - Red - Illuminated - Front mounting - 230 V This LED block is part of ABB's modular plastic range, the most versatile range with a high level of flexibility and market-leading electrical ratings. Engineered for total reliability, longer lifetime, and highest mechanical durability. Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime. A high degree of protection guarantees reliability in extreme environments. The innovative design simplifies the entire process, from selection to easy and quick, tool-free installation. The perfect solution for every application.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	85369001

Popular Downloads

Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201

Dimensions

Product Net Width	0.01 m
Product Net Height	0.044 m
Product Net Depth / Length	0.042 m
Product Net Weight	0.01 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Red
Illumination	Illuminated
Lamp Type	230 V AC, integrated LED
Mounting Type	Front mounting
Rated Frequency (f)	50 / 60 Hz
Rated Operational Voltage	230 V AC
Connecting Capacity	Flexible with Ferrule 1 x 0.75...2.5 mm ² Flexible with Ferrule 2 x 0.75...2.5 mm ² Flexible with Insulated Ferrule 1 x 0.75...2.5 mm ² Flexible with Insulated Ferrule 2 x 0.75...2.5 mm ² Flexible 1 x 0.75 ... 2.5 mm ² Flexible 2 x 0.75 ... 2.5 mm ² Solid 1 x 0.75...2.5 mm ² Solid 2 x 0.75...2.5 mm ²
Connection Type	Screw Clamp
Terminal Type	Screw Terminals
Tightening Torque	0.9 N·m
Wire Stripping Length	8 mm
Suitable For	MCBH-00 MCBH5-00 MP1 MP2 MP3 MP4 MPMT3 MPMP3 M2SS1 M2SS2 M2SS3 M2SS4 M2SS5 M2SS6 M3SS1 M3SS2 M3SS3 M3SS4 M3SS5 M3SS6 M3SS7 M3SS8 MPM1

Suitable for Product Pilot Devices

Class

Technical UL/CSA

Connecting Capacity	1x 18...14 AWG
UL/CSA	2x 18...14 AWG

Environmental

Degree of Protection	Terminals IP20
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CB Certificate	SEMKO_SE-56219
CQC Certificate	CQC2008010305274953
cULus Certificate	9AKK107046A9925
Declaration of Conformity - CCC	2020980305001106
Declaration of Conformity - CE	2CMT2015-005452
Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	E-14107
EAC Certificate	1SFC150017D1101

Container Information

Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.135 m
Package Level 1 Depth / Length	0.155 m
Package Level 1 Height	0.025 m
Package Level 1 Gross Weight	0.11 kg
Package Level 1 EAN	7320500372852

External Classifications and Standards

Object Classification Code	E
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ETIM 6	EC000204 - Lamp holder block for control circuit devices
ETIM 7	EC000204 - Lamp holder block for control circuit devices
ETIM 8	EC000204 - Lamp holder block for control circuit devices
eClass	V11.0 : 27371209
UNSPSC	39122221
IDEA Granular Category Code (IGCC)	5219 >> Switch part or accessory
E-Number (Finland)	2315775
E-Number (Norway)	4373113
E-Number (Sweden)	3705067

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Accessories

Low Voltage Products and Systems → Control Products → Pilot Devices → Modular Plastic Range





PRODUCT-DETAILS

MCBH-00

MCBH-00 Contact Block Holder



360°

General Information	
Extended Product Type	MCBH-00
Product ID	1SFA611605R1100
EAN	7320500544310
Catalog Description	MCBH-00 Contact Block Holder
Long Description	The MCBH-00 Contact Block Holder is: Maintained/Momentary - Front mounting - 3 This Contact Block Holder is part of ABB's modular plastic range, the most versatile range with a high level of flexibility and market-leading electrical ratings. Engineered for total reliability, longer lifetime, and highest mechanical durability. Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime. A high degree of protection guarantees reliability in extreme environments. The innovative design simplifies the entire process, from selection to easy and quick, tool-free installation. The perfect solution for every application.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8538909999

Popular Downloads	
Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201

Dimensions	
Product Net Width	0.03 m
Product Net Height	0.048 m
Product Net Depth / Length	0.013 m
Product Net Weight	0.01 kg

Technical	
Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Mounting Type	Front mounting
Suitable For	MP1
	MP2
	MP3
	MP4
	MPD1
	MPD2
	MPD3
	MPD4
	MPD5
	MPD11
	MPD12
	MPD13
	MPD14
	MPD15
	MPD16
	MPM1
	MPM2
	KP6
	MPET3
	MPEP3
	MPEK3
	MPET4
	MPEP4
	MPEK4
	MPMT3
	MPMT4
	MPMP3
	MPMP4
	M2SS1
	M2SS2
	M2SS3
	M2SS4
	M2SS5
	M2SS6
	M3SS1
	M3SS2
	M3SS3
	M3SS4
	M3SS5
	M3SS6
	M3SS7
	M3SS8
	M3SSC1
	M3SSC2
	M3SSC3

	M3SSC4
	M3SSC5
	M3SSC6
	M3SSC7
	M3SSC8
	M2SSK1
	M2SSK2
	M2SSK3
	M3SSK1
	M3SSK2
	M3SSK3
	MTS1
	MTS2
	MTS3
	MJS1
	MJS2
	MJS5
	MJS6
	MJS7
	MJS8
	MJS11
	MJS12
Suitable for Product Class	Pilot Devices

Environmental

Degree of Protection	Terminals IP20
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE Category	Product Not in WEEE Scope

Certificates and Declarations

cULus Certificate	UL-E76003-20140513
Declaration of Conformity - CE	2CMT2015-005452
Declaration of Conformity - UKCA	2CMT2020-006121

Container Information

Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.11 m
Package Level 1 Depth / Length	0.15 m
Package Level 1 Height	0.02 m
Package Level 1 Gross Weight	0.1 kg
Package Level 1 EAN	7320500307465

External Classifications and Standards		
Object Classification Code		S
ETIM 6	EC001020 - Adapter for control circuit devices	
ETIM 7	EC001020 - Adapter for control circuit devices	
ETIM 8	EC001020 - Adapter for command devices	
eClass		V11.0 : 27371302
UNSPSC		39122221
IDEA Granular Category Code (IGCC)	5219 >> Switch part or accessory	
E-Number (Finland)		2339091
E-Number (Norway)		4373197
E-Number (Sweden)		3714000

Where Used (as a spare part for "Products")			
Identifier	Description	Quantity	Unit Of Measure
3HAC020536-015	No Description Available	1	piece
IRB 1400 M2004	No Description Available	1	piece
ABB3HAC020536-001	No Description Available	1	piece

Product specific part data				
Product	Robot Design Year	Robot Part Location	Robotics Part Category	Category
3HAC020536-015	IRB 360 M2004	Arm System and External Details	Misc Parts - Fitting/Gasket/Washer	
IRB 1400 M2004		Base and Frame	Assembly Casting/Machining	IRB 1400-5/1,44
ABB3HAC020536-001		Base and Frame	Misc Parts - Fitting/Gasket/Washer	

Categories
Low Voltage Products and Systems → Control Products → Pilot Devices → Modular Plastic Range
Low Voltage Products and Systems → Low Voltage Systems → IEC - Low Voltage Motor Control Centers → MNS 3.0 - MCC
Low Voltage Products and Systems → Service → Spares and Consumables → Parts
Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)
Robotics → Robots → Articulated Robots → IRB 1400 → IRB 1400-5/1,44
Robotics → Robots → Parallel Robots → IRB 360 → IRB 360





PRODUCT-DETAILS

MP1-10B

MP1-10B Pushbutton



General Information	
Extended Product Type	MP1-10B
Product ID	1SFA611100R1006
EAN	7320500261026
Catalog Description	MP1-10B Pushbutton
Long Description	The MP1-10B Pushbutton is: Momentary - Flush - Black - Non-illuminated - Black Plastic - No contact block This Pushbutton is part of ABB's modular plastic range, the most versatile range with a high level of flexibility and market-leading electrical ratings. Engineered for total reliability, longer lifetime, and highest mechanical durability. Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime. A high degree of protection guarantees reliability in extreme environments. The innovative design simplifies the entire process, from selection to easy and quick, tool-free installation. The perfect solution for every application.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8536508000

Popular Downloads	
Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201
Marketing Video	1SFC151037V0001

Dimensions	
Product Net Width	0.029 m
Product Net Height	0.029 m
Product Net Depth / Length	0.033 m
Product Net Weight	0.011 kg

Technical	
Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Black
Actuator Type	Flush
Bezel Material	Plastic
Illumination	Non-illuminated
Function	Momentary
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Mechanical Durability	2 million

Environmental	
Degree of Protection	Front IP66

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE Category	Product Not in WEEE Scope

Certificates and Declarations	
cULus Certificate	9AKK107046A9925
Declaration of Conformity - CE	2CMT2015-005452

Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	E-14107

Container Information	
Package Level 1 Units	bag 1 piece
Package Level 1 Width	0.135 m
Package Level 1 Depth / Length	0.145 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.014 kg
Package Level 1 EAN	7320500261026

External Classifications and Standards	
Object Classification Code	S
ETIM 6	EC000221 - Front element for push button
ETIM 7	EC000221 - Front element for push button
ETIM 8	EC000221 - Front element for push button
eClass	V11.0 : 27371210
UNSPSC	39122216
IDEA Granular Category Code (IGCC)	5212 >> Push button for distribution board
E-Number (Finland)	2313610
E-Number (Norway)	4372006
E-Number (Sweden)	3715006

Where Used (as a spare part for "Products")			
Identifier	Description	Quantity	Unit Of Measure
3HAC020536-015	No Description Available	1	piece
IRB 1400 M2004	No Description Available	1	piece
ABB3HAC020536-001	No Description Available	1	piece

Product specific part data				
Product	Robot Design Year	Robot Part Location	Robotics Part Category	Category
3HAC020536-015	IRB 360 M2004	Manipulator Base	SMB/Electronics	
IRB 1400 M2004		Lower Arm	Casting/Machining Assembly	IRB 1400-5/1,44

Product	Robot Design Year	Robot Part Location	Robotics Part Category	Category
ABB3HAC020536-001		Upper Arm	Misc Parts - Fitting/Gasket/Washer	

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Modular Plastic Range → MP Pushbutton

Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)

Robotics → Robots → Articulated Robots → IRB 1400 → IRB 1400-5/1,44

Robotics → Robots → Parallel Robots → IRB 360 → IRB 360





PRODUCT-DETAILS

MP4-11R

MP4-11R Pushbutton



General Information	
Extended Product Type	MP4-11R
Product ID	1SFA611103R1101
EAN	7320500273661
Catalog Description	MP4-11R Pushbutton
Long Description	The MP4-11R Pushbutton is: Maintained - Extended - Red - Illuminated - Black Plastic - No contact block This Pushbutton is part of ABB's modular plastic range, the most versatile range with a high level of flexibility and market-leading electrical ratings. Engineered for total reliability, longer lifetime, and highest mechanical durability. Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime. A high degree of protection guarantees reliability in extreme environments. The innovative design simplifies the entire process, from selection to easy and quick, tool-free installation. The perfect solution for every application.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8536508000

Popular Downloads	
Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201
Marketing Video	1SFC151037V0001

Dimensions	
Product Net Width	0.029 m
Product Net Height	0.029 m
Product Net Depth / Length	0.039 m
Product Net Weight	0.013 kg

Technical	
Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Red
Actuator Type	Extended
Bezel Material	Plastic
Illumination	Illuminated
Function	Maintained
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Mechanical Durability	2 million

Environmental	
Degree of Protection	Front IP66

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE Category	Product Not in WEEE Scope

Certificates and Declarations	
cULus Certificate	9AKK107046A9925
Declaration of Conformity - CE	2CMT2015-005452

Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	E-14107

Container Information

Package Level 1 Units	bag 1 piece
Package Level 1 Width	0.135 m
Package Level 1 Depth / Length	0.145 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.016 kg
Package Level 1 EAN	7320500273661

External Classifications and Standards

Object Classification Code	S
ETIM 6	EC000221 - Front element for push button
ETIM 7	EC000221 - Front element for push button
ETIM 8	EC000221 - Front element for push button
eClass	V11.0 : 27371210
UNSPSC	39122216
IDEA Granular Category Code (IGCC)	5212 >> Push button for distribution board
E-Number (Finland)	2313692
E-Number (Norway)	4372027
E-Number (Sweden)	3715231

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Modular Plastic Range → MP Pushbutton





PRODUCT-DETAILS

CR-PLS

CR-PLS Logical socket for 1c/o or 2c/o CR-P relays



General Information	
Extended Product Type	CR-PLS
Product ID	1SVR405650R0000
EAN	4013614528569
Catalog Description	CR-PLS Logical socket for 1c/o or 2c/o CR-P relays
Long Description	The CR-PLS socket is from the CR-P (pcb) relay range. The logical socket with safety isolation is suitable for CR-P relays with 1 or 2 c/o (SPDT) output contacts. The socket has screw connection terminals. Pluggable function modules, holder and marker are available as accessories.

Ordering	
EAN	4013614528569
Minimum Order Quantity	10 piece
Customs Tariff Number	85366990

Popular Downloads	
Data Sheet, Technical Information	2CDC110004C0210_05
Instructions and Manuals	1SVC405650M9000

CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132576 EPLAN

Dimensions

Product Net Width	15.5 mm
Product Net Height	61 mm
Product Net Depth / Length	75 mm
Product Net Weight	0.045 kg

Technical

Function	Accessory for interface relays CR-P
Sub-Function	Socket for PCB relays
Sub-Function 2	Logical socket for pcb relay 1 c/o or 2 c/o with protective separation
Rated Operational Voltage	250 V
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I _e)	(230 V) 2 A
Rated Insulation Voltage (U _i)	5 V
Mounting Position	1
Standards	CAN/CSA C22.2 No.14 IEC/EN 63000 IEC/EN 61984 UL 508

Technical UL/CSA

Connecting Capacity Main Circuit UL/CSA	Flexible with Ferrule 2x 20-16 AWG Rigid 2x 20-14 AWG Stranded 2 x 20-14 AWG
Flammability According to UL94	V-0

Environmental

Ambient Air Temperature	Operation -40 ... +70 °C Storage -40 ... +70 °C
Maximum Operating Altitude Permissible	2000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Declaration	1SVD981001-4401
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006536

Certificates and Declarations

CSA Certificate	CSA 262671 2785566
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cURus Certificate	cURus508_E244328
Declaration of Conformity - CE	1SVD982020-0001
Declaration of Conformity - UKCA	1SVD982020-1000
EAC Certificate	EAC RU C-DE.ME77.B.00446-19

Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	159 mm
Package Level 1 Depth / Length	80 mm
Package Level 1 Height	64 mm
Package Level 1 Gross Weight	0.452 kg
Package Level 1 EAN	4013614373077

External Classifications and Standards

Object Classification Code	K
ETIM 7	EC001456 - Relay socket
ETIM 8	EC001456 - Relay socket
ETIM 9	EC001456 - Relay socket
eClass	V11.0 : 27371603
UNSPSC	39122335
E-Number (Finland)	2712755
E-Number (Norway)	4187346
E-Number (Sweden)	4005315

Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Interface Relays and Optocouplers



360°



PRODUCT-DETAILS

CR-P230AC2

CR-P230AC2 Pluggable interface relay 2c/o, A1-A2=230VAC, 250V/8A



General Information	
Extended Product Type	CR-P230AC2
Product ID	1SVR405601R3000
EAN	4013614498251
Catalog Description	CR-P230AC2 Pluggable interface relay 2c/o, A1-A2=230VAC, 250V/8A
Long Description	The CR-P230AC2 pluggable interface relay is suitable for direct mounting on a printed circuit board or use in conjunction with ABB's sockets. This relay operates with a 230 V AC rated control supply voltage and has a 2 c/o (SPDT) output with contacts rated at 250 V / 8 A, enabling the possibility of switching multiple circuits with a single input signal. Coupled with a socket, the compact size of this relay offers possibilities to save space within a control panel. Furthermore, with an IP degree of 67, this relay offers complete protection against ingress of dust and airborne particles & protection against water and liquids, up to and including immersion in up to one meter of water. Standard sockets, logical sockets, pluggable function modules, holder and marker are available as accessories.

Ordering	
EAN	4013614498251
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC110004C0210_05
Instructions and Manuals	1SVC405600M9000
CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132576_EPLAN

Dimensions

Product Net Width	12.7 mm
Product Net Height	15.7 mm
Product Net Depth / Length	29 mm
Product Net Weight	0.014 kg

Technical

Function	Pluggable pcb interface relay CR-P
Sub-Function	Relay w/o built in LED
Rated Control Supply Voltage (U _s)	230 V AC
Rated Operational Voltage	400 V AC
Output	2 C/O Contacts
Output Signal	250 V / 8 A
Terminal Type	Soldering Pins
Rated Operational Current AC-12 (I _e)	(230 V) 8 A
Rated Operational Current AC-15 (I _e)	(120 V) 3 A (230 V) 1.5 A
Rated Operational Current DC-12 (I _e)	(24 V) 8 A
Rated Operational Current DC-13 (I _e)	(24 V) 2 A (250 V) 0.1 A
Rated Insulation Voltage (U _i)	400 V
Degree of Protection	IP67
Mounting Position	1
Standards	IEC/EN 61810-1

Technical UL/CSA

Maximum Operating Voltage UL/CSA	300 V AC
Contact Rating UL/CSA	B300
Pilot Duty UL/CSA	B300
Flammability According to UL94	V-0

Environmental

Ambient Air Temperature	Operation -40 ... +70 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Declaration	1SVD981001-4401
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006536

Certificates and Declarations

CCC Certificate	CCC_2007010303228779
CSA Certificate	CSA_1587291
cUR Certificate	cUR_E244330
Declaration of Conformity - CCC	2020970303000496
Declaration of Conformity - CE	1SVD982031-0001
Declaration of Conformity - UKCA	1SVD982031-1000
EAC Certificate	EAC_RU_C-DE.ME77.B.00446-19
RMRS Certificate	RMRS_1740019250
UR Certificate	UR_E244330
VDE Certificate	VDE_40019129

Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	332 mm
Package Level 1 Depth / Length	17 mm
Package Level 1 Height	28 mm
Package Level 1 Gross Weight	0.157 kg
Package Level 1 EAN	4013614373060

External Classifications and Standards

Object Classification Code	K
ETIM 7	EC001437 - Switching relay
ETIM 8	EC001437 - Switching relay
ETIM 9	EC001437 - Switching relay
eClass	V11.0 : 27371601
UNSPSC	39122331
E-Number (Finland)	2712753
E-Number (Norway)	4187345

Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Interface Relays and Optocouplers





PRODUCT-DETAILS

CR-P024AC2

CR-P024AC2 Pluggable interface relay 2c/o, A1-A2=24VAC, 250V/8A



General Information	
Extended Product Type	CR-P024AC2
Product ID	1SVR405601R0000
EAN	4013614498220
Catalog Description	CR-P024AC2 Pluggable interface relay 2c/o, A1-A2=24VAC, 250V/8A
Long Description	The CR-P024AC2 pluggable interface relay is suitable for direct mounting on a printed circuit board or use in conjunction with ABB's sockets. This relay operates with a 24 V AC rated control supply voltage and has a 2 c/o (SPDT) output with contacts rated at 250 V / 8 A, enabling the possibility of switching multiple circuits with a single input signal. Coupled with a socket, the compact size of this relay offers possibilities to save space within a control panel. Furthermore, with an IP degree of 67, this relay offers complete protection against ingress of dust and airborne particles & protection against water and liquids, up to and including immersion in up to one meter of water. Standard sockets, logical sockets, pluggable function modules, holder and marker are available as accessories.

Ordering	
EAN	4013614498220
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC110004C0210_05
Instructions and Manuals	1SVC405600M9000
CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132576_EPLAN

Dimensions

Product Net Width	12.7 mm
Product Net Height	15.7 mm
Product Net Depth / Length	29 mm
Product Net Weight	0.014 kg

Technical

Function	Pluggable pcb interface relay CR-P
Sub-Function	Relay w/o built in LED
Rated Control Supply Voltage (U_s)	24 V AC
Rated Operational Voltage	400 V AC
Rated Frequency (f)	50 / 60 Hz
Output	2 C/O Contacts
Output Signal	250 V / 8 A
Terminal Type	Soldering Pins
Rated Operational Current AC-12 (I_{θ})	(230 V) 8 A
Rated Operational Current AC-15 (I_{θ})	(120 V) 3 A (230 V) 1.5 A
Rated Operational Current DC-12 (I_{θ})	(24 V) 8 A
Rated Operational Current DC-13 (I_{θ})	(24 V) 2 A (250 V) 0.1 A
Rated Insulation Voltage (U_i)	400 V
Degree of Protection	IP67
Mounting Position	1
Standards	IEC/EN 61810-1

Technical UL/CSA

Maximum Operating Voltage UL/CSA	300 V AC
Pilot Duty UL/CSA	B300
Flammability According to UL94	V-0

Environmental

Ambient Air Temperature	Operation -40 ... +70 °C Storage -40 ... +85 °C
Maximum Operating Altitude Permissible	Without Derating 2000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Declaration	1SVD981001-4401
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006536

Certificates and Declarations

CCC Certificate	CCC_2007010303228779
CSA Certificate	CSA_1587291
cUR Certificate	cUR_E244330
Declaration of Conformity - CCC	2020970303000496
Declaration of Conformity - CE	1SVD982031-0001
Declaration of Conformity - UKCA	1SVD982031-1000
EAC Certificate	EAC_RU_C-DE.ME77.B.00446-19
RMRS Certificate	RMRS_1740019250
UR Certificate	UR_E244330
VDE Certificate	VDE_40019129

Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	332 mm
Package Level 1 Depth / Length	17 mm
Package Level 1 Height	28 mm
Package Level 1 Gross Weight	0.157 kg
Package Level 1 EAN	4013614372995

External Classifications and Standards

Object Classification Code	K
ETIM 7	EC001437 - Switching relay
ETIM 8	EC001437 - Switching relay
ETIM 9	EC001437 - Switching relay
eClass	V11.0 : 27371601
UNSPSC	39122331
E-Number (Finland)	2712739
E-Number (Norway)	4187341
E-Number (Sweden)	4005307

Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Interface Relays and Optocouplers





PRODUCT-DETAILS

E 9F10 GG2
E 9F10 GG2 Fuse link



General Information	
Extended Product Type	E 9F10 GG2
Product ID	2CSM258723R1801
EAN	8012542587231
Catalog Description	E 9F10 GG2 Fuse link
Long Description	E 9F10 GG2 is a 10,3x38 mm cylindrical fuse for circuit protection

Technical	
Fuse Type	gG
Release Type	gG: Used in general protection of cables and lines in installation and industrial applications
Construction Material	Ceramic
Fuse Size	10x38
Contact Material	copper silver plated (Cu/Ag)

Electrical	
Rated Voltage (U _r)	500 V
Rated Current (I _n)	2 A

Maximum Breaking Capacity	120 kA
Power Loss	Total 0.45 W at Rated Operating Conditions per Pole 0.45 W
I ² t Characteristic	9AKK108466A9085

Material Compliance

RoHS Declaration	9AKK106713A5625
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20140127
REACH Declaration	9AKK108467A9482
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer

Environmental

Environmental Information	See RoHS Information
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Dimensions

Product Net Width	1 mm
Product Net Height	4 mm
Product Net Depth / Length	1 mm
Product Net Weight	7 g
Dimension Diagram	9AKK108466A8532

Ordering

Package Level 1 Units	box 10 piece
Package Level 1 Gross Weight	0.075 kg
E-Number (Norway)	1655012

Certificates and Declarations

Cut-off Current Characteristic	9AKK108466A9065
Declaration of Conformity - CE	9AKK106713A5625

Installation

Instructions and Manuals	No document needed
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Popular Downloads

Data Sheet, Technical Information	9AKK107991A8329
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Cut-off Current Characteristic	9AKK108466A9065
I ² t Characteristic	9AKK108466A9085
Time-Current Characteristic Curve	9AKK108467A0142

External Classifications and Standards

ETIM 9	EC002704 - Cylindrical fuse
ETIM 10	EC002704 - Cylindrical fuse
UNSPSC	39121606
eClass	V11.0 : 27142002
Object Classification Code	F
Standards	IEC 60269-2

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Protection and Safety Devices → Cylindrical and D0 Fuses





PRODUCT-DETAILS

E 91/32

E 91/32 Fuse switch disconnecter



General Information	
Extended Product Type	E 91/32
Product ID	2CSM200923R1801
EAN	8012542009238
Catalog Description	E 91/32 Fuse switch disconnecter
Long Description	E 91/32 is a fuseholder for overcurrent and short circuit protection. No blown fuse indicator.

Technical	
Number of Protected Poles	1
Number of Poles	1P
Tightening Torque	2...2.5 N·m
Utilization Category	Connecting and disconnecting under no-load conditions - occasional actuation (AC-20B) Switching of mixed resistive and inductive loads, including moderate overloads - occasional actuation (AC-22B)
Lock Type	Padlockable When Open
Sealing Type	Sealing Wire

Material of Conductor	Copper
Options Provided	No
Recommended Screw Driver	Pozidriv 2
Shock and Vibration Withstand acc. to IEC 61373	Category 1, Class B
Connecting Capacity	Rigid 2x5 mm ² Stranded 2x2-5 mm ²
Fuse Size	10x38 mm
	max. 90% with temp. +20 °C 50% with max. temp. +40 °C
Rated Operational Current AC (I _e)	32 A

Electrical

Rated Voltage (U _r)	acc. To IEC 400 V acc. To UL 690 V
Rated Operational Voltage	AC-20B 690 V AC-22B 400 V
Rated Insulation Voltage (U _i)	1 kV
Rated Frequency (f)	50/60 Hz
Power Loss	Total 3 W at Rated Operating Conditions per Pole 3 W

Technical UL/CSA

Connecting Capacity UL/CSA	Rigid 2x10 AWG Stranded 2x14-10 AWG
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Material Compliance

RoHS Declaration	9AKK106713A5623
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20140101
REACH Declaration	9AKK108467A9482
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Consumer

Environmental

Ambient Air Temperature	Operation -5...+40 °C Storage -25...+70 °C
Degree of Protection	IP20
Maximum Operating Altitude Permissible	2000 m
Resistance to Vibrations	1 mm 2 ... 13 Hz
Resistance to Shock acc.	15g 18 shocks 13 ms

to IEC 60068-2-27

Environmental
Information

See RoHS Information

Dimensions

Width in Number of Modular Spacings	1
Product Net Width	18 mm
Product Net Height	85 mm
Product Net Depth / Length	64 mm
Product Net Weight	61 g
Built-In Depth (t ₂)	64 mm

Ordering

Package Level 1 Units	box 6 piece
Package Level 1 Gross Weight	0.369 kg
E-Number (Finland)	3017004
E-Number (Norway)	1425438
E-Number (Sweden)	2318050

Certificates and Declarations

BV Certificate	9AKK108467A0330
CCC Certificate	9AKK108467A0340
Declaration of Conformity - CE	9AKK106713A5623
IMQ Certificate	9AKK108467A0324
KRS Certificate	9AKK108467A0337
LR Certificate	9AKK107991A7313
UL Certificate	9AKK107992A1039

Installation

Instructions and Manuals	No document needed
Mounting Type	DIN-Rail

Popular Downloads

Data Sheet, Technical Information	2CSC444002B0204
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External Classifications and Standards

ETIM 9	EC002705 - Holder for cylindrical fuse
ETIM 10	EC002705 - Holder for cylindrical fuse
UNSPSC	39122233
eClass	V11.0 : 27142121

IDEA Granular Category Code (IGCC)	5291 >> Fuse switch disconnecter
Object Classification Code	F
Standards	IEC 60947-3
Certification Agency	IMQ BV Korean register CCC EAC
Standardization Body	UL

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
2CSM277333R1801	E 9F10 GG05 Fuse link	E 9F10 GG05	1	piece
2CSM277113R1801	E 9F10 GG1 Fuse link	E 9F10 GG1	1	piece
2CSM258723R1801	E 9F10 GG2 Fuse link	E 9F10 GG2	1	piece
2CSM257543R1801	E 9F10 GG4 Fuse link	E 9F10 GG4	1	piece
2CSM256363R1801	E 9F10 GG6 Fuse link	E 9F10 GG6	1	piece
2CSM258633R1801	E 9F10 GG8 Fuse link	E 9F10 GG8	1	piece
2CSM257453R1801	E 9F10 GG10 Fuse link	E 9F10 GG10	1	piece
2CSM256273R1801	E 9F10 GG12 Fuse link	E 9F10 GG12	1	piece
2CSM277543R1801	E 9F10 GG16 Fuse link	E 9F10 GG16	1	piece
2CSM277323R1801	E 9F10 GG20 Fuse link	E 9F10 GG20	1	piece
2CSM277103R1801	E 9F10 GG25 Fuse link	E 9F10 GG25	1	piece
2CSM258713R1801	E 9F10 GG32 Fuse link	E 9F10 GG32	1	piece
2CSM257473R1801	E 9F10 AM05 Fuse link	E 9F10 AM05	1	piece
2CSM256293R1801	E 9F10 AM1 Fuse link	E 9F10 AM1	1	piece
2CSM277563R1801	E 9F10 AM2 Fuse link	E 9F10 AM2	1	piece
2CSM277343R1801	E 9F10 AM4 Fuse link	E 9F10 AM4	1	piece
2CSM277123R1801	E 9F10 AM6 Fuse link	E 9F10 AM6	1	piece
2CSM258733R1801	E 9F10 AM8 Fuse link	E 9F10 AM8	1	piece
2CSM257553R1801	E 9F10 AM10 Fuse link	E 9F10 AM10	1	piece
2CSM256373R1801	E 9F10 AM12 Fuse link	E 9F10 AM12	1	piece
2CSM258643R1801	E 9F10 AM16 Fuse link	E 9F10 AM16	1	piece
2CSM257463R1801	E 9F10 AM20 Fuse link	E 9F10 AM20	1	piece
2CSM256283R1801	E 9F10 AM25 Fuse link	E 9F10 AM25	1	piece
2CSM277553R1801	E 9F10 AM32 Fuse link	E 9F10 AM32	1	piece
2CCS500900R0181	ZLS725 Intermediate piece	ZLS725	1	piece
2CCS400900R0091	ZLS726 Intermediate piece	ZLS726	1	piece

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Protection and Safety Devices → Cylindrical Fuse Holders and Fuse Switch Disconnectors





PRODUCT-DETAILS

CB1-630B

CB1-630B Buzzer



General Information	
Extended Product Type	CB1-630B
Product ID	1SFA619600R6306
EAN	7320500556924
Catalog Description	CB1-630B Buzzer
Long Description	The CB1-630B Buzzer is: Compact - Buzzer - Pulsating sound without light - Black - Non-illuminated - 24 V This Buzzer is part of ABB's compact range, the most efficient all-in-one solution available, reducing installation time and cost. The compact range has a high level of dust and water resistance.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	85369001

Popular Downloads	
Data Sheet, Technical	1SFC151007C02_

Information

Instructions and Manuals	1SFC151011M0201
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Dimensions

Product Net Width	0.03 m
Product Net Height	0.03 m
Product Net Depth / Length	0.055 m
Product Net Weight	0.021 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Black
Illumination	Non-illuminated
Function	Pulsating sound without light
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Pollution Degree	3
Rated Frequency (f)	50 / 60 Hz
Rated Operational Voltage	Supply Circuit 24 V AC/DC
Sound dB (A)	90 dB
Connecting Capacity	Flexible with Ferrule 1 x 0.75...2.5 mm ² Flexible with Ferrule 2 x 0.75...2.5 mm ² Flexible with Insulated Ferrule 1 x 0.75...2.5 mm ² Flexible with Insulated Ferrule 2 x 0.75...2.5 mm ² Flexible 1 x 0.75 ... 2.5 mm ² Flexible 2 x 0.75 ... 2.5 mm ² Solid 1 x 0.75...2.5 mm ² Solid 2 x 0.75...2.5 mm ²
Connection Type	Screw Clamp
Terminal Type	Screw Terminals
Tightening Torque	0.9 N·m
Wire Stripping Length	8 mm

Technical UL/CSA

Connecting Capacity	1x 18...14 AWG
UL/CSA	2x 18...14 AWG

Environmental

Degree of Protection	Front IP66 Front IP67 Front IP69K Terminals IP20
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

CB Certificate	CQC_CN_CN50749
CQC Certificate	CQC2003010305054693
cURus Certificate	UL_E496500-20171020
Declaration of Conformity - CCC	2020980305001187
Declaration of Conformity - CE	2CMT2015-005451
Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	9AKK107046A3749

Container Information

Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.05 m
Package Level 1 Depth / Length	0.235 m
Package Level 1 Height	0.125 m
Package Level 1 Gross Weight	0.214 kg
Package Level 1 EAN	7320500402061

External Classifications and Standards

Object Classification Code	P
ETIM 6	EC001026 - Acoustic indicator
ETIM 7	EC001026 - Acoustic indicator
ETIM 8	EC001026 - Acoustic indicator
eClass	V11.0 : 27371214
UNSPSC	46171607
IDEA Granular Category Code (IGCC)	7389 >> Buzzers
E-Number (Finland)	2313719
E-Number (Norway)	4373095
E-Number (Sweden)	3705044

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Compact Range → CB Compact Buzzers





PRODUCT-DETAILS

TM-C 100/12-24

TM-C 100/12-24 Single phase control transformer



General Information	
Extended Product Type	TM-C 100/12-24
Product ID	2CSM207103R0801
EAN	8012542071037
Catalog Description	TM-C 100/12-24 Single phase control transformer
Long Description	Transformer for supplying control circuits, for example commands, signalling, interlocks, etc.

Technical	
Power Supply	100 V·A
Insulation Class	F
Fuse Type	aM
Material of Conductor	Copper
Cable Cross-Section	6 mm²

Electrical	
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Rated Insulation Voltage (U _i)	3.5 kV
Primary Voltage	230-400 V AC
Secondary Voltage	12-24 V AC
Rated Frequency (f)	50/60 Hz
Power Loss	Total 15 W

Material Compliance

RoHS Declaration	9AKK106713A5643
RoHS Information	Following EU Directive 2011/65/EU
RoHS Date	20190722
REACH Declaration	9AKK108467A9482
REACH Information	False - does not contain substances > 0.1 mass percentage
REACH Date	20240429
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Environmental

Ambient Temperature	max. 40 °C
Environmental Information	See RoHS Information

Dimensions

Product Net Width	86 mm
Product Net Height	90 mm
Product Net Depth / Length	87 mm
Product Net Weight	1.88 kg

Ordering

Package Level 1 Units	box 1 piece
Package Level 1 Gross Weight	2 kg

Certificates and Declarations

Declaration of Conformity - CE	9AKK106713A5643
UL Certificate	9AKK108467A9066

Installation

Instructions and Manuals	No document needed
Wiring Diagram	9AKK108466A7415

Popular Downloads	
Data Sheet, Technical Information	2CSC446005B0202
Inrush Power Curve	9AKK108467A2987
Transformer Protection Selection Table	9AKK108467A2982
Power Draw According to Altitude	9AKK108467A2983
Power Draw According to Temperature	9AKK108467A2985
Admissible Overload	9AKK108467A2986

External Classifications and Standards	
ETIM 9	EC002486 - One-phase control transformer
ETIM 10	EC002486 - One-phase control transformer
UNSPSC	39121026
eClass	V11.0 : 27031302
Object Classification Code	T
Standards	EN 61558-2-2 , UL506 , CSA C22-2-N66
Certification Agency	ENEC UR RINA
Standardization Body	CSA

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Command and Signalling Devices → Industrial Single-Phase Transformers





PRODUCT-DETAILS

1S9NT104

FLX-RMC Extension for FLX I/O bus

General Information	
Global Commercial Alias	1S9NT104
Extended Product Type	FLX-RMC
Product ID	2CQG205801R1021
EAN	5391539123427
Catalog Description	FLX-RMC Extension for FLX I/O bus
Long Description	Remote Mounting Connectors (Pair) For FLX I/O Modules.

Installation	
Instructions and Manuals	No document needed

Technical	
Data Sheet, Technical Information	No document needed
Number of Batteries	0

Dimensions	
Product Net Width	65 mm
Product Net Height	32 mm
Product Net Depth / Length	50 mm
Product Net Weight	0.1 kg
Dimension Diagram	9AKK108468A0119

Material Compliance	
RoHS Declaration	CDOC1801
RoHS Information	Following EU Directive 2011/65/EU
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363

WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Certificates and Declarations

Declaration of Conformity - CE	CDOC1801
EU Data Act Compliance Declaration	9AKK108471A0690
EU Data Act Applicability and Compliance	2025 Applicable - Compliant

External Classifications and Standards

ETIM 9	EC001121 - Modular connector
ETIM 10	EC001121 - Modular connector

Categories

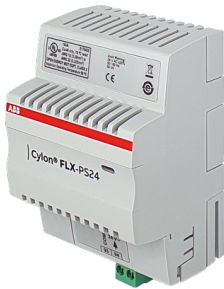
Low Voltage Products and Systems → Building and Home Automation Solutions → Building Management Solutions → BACnet Building Control → FLX Expansion IO Modules



PRODUCT-DETAILS

1M101111

FLX-PS24 20 V DC Power supply



General Information	
Global Commercial Alias	1M101111
Extended Product Type	FLX-PS24
Product ID	2CQG205601R1021
EAN	5391539123403
Catalog Description	FLX-PS24 20 V DC Power supply
Long Description	20 V DC Power supply module for FLX Field Level eXpansion IO modules and external field devices (using the FLX-RMC).

Installation	
Instructions and Manuals	MAN0106

Environmental	
Ambient Air Temperature	-25 ... 50 °C
Degree of Protection	IP20

Technical

Data Sheet, Technical Information	DS0130 BDS0027
Communication Interface	FLX-Bus
Connection Type	Screw
Number of Batteries	0

Electrical

Supply Voltage	AC60Hz 24 V
Secondary Voltage	1st Output 24 V
Voltage Range	19.2 ... 28.8 V
Input Voltage Type	AC/DC
Output Voltage (U _{out})	Nominal Value 1 20 V
Output Current Maximum (I _{out})	11 A
	50 V·A

Dimensions

Product Net Width	60 mm
Product Net Height	58 mm
Product Net Depth / Length	95 mm
Product Net Weight	0.1 kg
Dimension Diagram	9AKK108468A0118

Material Compliance

RoHS Declaration	CDOC1811
RoHS Information	Following EU Directive 2011/65/EU
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Certificates and Declarations

Declaration of Conformity - CE	CDOC1811
EU Data Act Compliance Declaration	9AKK108471A0690
EU Data Act Applicability and Compliance	2025 Applicable - Compliant

External Classifications and Standards

ETIM 9	EC002540 - DC-power supply
ETIM 10	EC002540 - DC-power supply

Categories

Low Voltage Products and Systems → Building and Home Automation Solutions → Building Management Solutions → BACnet Building Control → FLX Expansion IO Modules





PRODUCT-DETAILS

1M101100

FLX-8R8 I/O module for FBXi, CBXi, CBX



General Information	
Global Commercial Alias	1M101100
Extended Product Type	FLX-8R8
Product ID	2CQG200706R1021
EAN	5391539122505
Catalog Description	FLX-8R8 I/O module for FBXi, CBXi, CBX
Long Description	16-Point Field Level eXpansion (FLX) I/O module for CBX. Module features 8 UniPuts™ with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. A maximum of three FLX modules may be added to a single CBX.

Installation	
Instructions and Manuals	MAN0106 MAN0149

Environmental	
Ambient Air Temperature	-25 ... 50 °C

Degree of Protection	IP20
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Technical

Data Sheet, Technical Information	DS0129 BDS0021
Communication Interface	FLX-Bus
Number of Outputs	Analog (0 ... 10 V / 4 ... 20 mA) 8
Number of Digital Inputs	0
Number of Inputs	Universal 8
Analog Inputs	8
Number of Batteries	0

Electrical

	4.9 W
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Dimensions

Product Net Width	100 mm
Product Net Height	57 mm
Product Net Depth / Length	90 mm
Product Net Weight	0.2 kg
Dimension Diagram	9AKK108468A0115

Material Compliance

RoHS Declaration	CDOC1801
RoHS Information	Following EU Directive 2011/65/EU
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Certificates and Declarations

Declaration of Conformity - CE	CDOC1801
EU Data Act Compliance Declaration	9AKK108471A0690
EU Data Act Applicability and Compliance	2025 Applicable - Compliant

External Classifications and Standards

ETIM 9	EC010957 - Free programmable controller extension
ETIM 10	EC010957 - Free programmable controller extension

Categories

Low Voltage Products and Systems → Building and Home Automation Solutions → Building Management Solutions → BACnet Building Control → FLX Expansion IO Modules

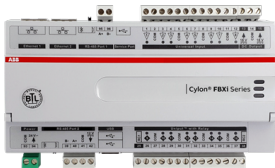




PRODUCT-DETAILS

1M102112-CZ

FBXi-8R8-X96 IP B-BC: 16 I/O + 450 Total Modbus Points



General Information	
Global Commercial Alias	1M102112-CZ
Extended Product Type	FBXi-8R8-X96
Product ID	2CQG201035R1011
EAN	5391539126220
Catalog Description	FBXi-8R8-X96 IP B-BC: 16 I/O + 450 Total Modbus Points
Long Description	16 IO Point (expandable using FLX modules to 96 IO) BACnet/IP B-BC programmable controller for control and monitoring of small plant or HVAC equipment. Controller features 8 UniPuts™ with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. Includes support for 450 Modbus Points.

Installation	
Instructions and Manuals	MAN0149

Environmental	
Ambient Air	Around the Enclosure -25 ... 50 °C

Temperature	
Degree of Protection	IP20

Technical

Data Sheet, Technical Information	DS0132 BDS0029
Communication Interface	IP, MS/TP
Number of Channels	16
Number of Digital Inputs	8
Analog Inputs	8
Analog Outputs	8

Electrical

Supply Voltage	24 ... 24 V
Voltage Range	19.2 ... 28.8 V
Input Voltage Type	AC/DC
	30 V·A

Dimensions

Product Net Width	90 mm
Product Net Height	57 mm
Product Net Depth / Length	163 mm
Product Net Weight	0.3 kg

Material Compliance

RoHS Declaration	CDOC1809
RoHS Information	Following EU Directive 2011/65/EU
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Certificates and Declarations

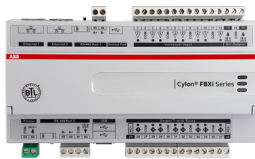
Declaration of Conformity - CE	CDOC1809
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External Classifications and Standards

ETIM 9	EC011487 - Free programmable controller
ETIM 10	EC011487 - Free programmable controller

Categories

Low Voltage Products and Systems → Building and Home Automation Solutions → Building Management Solutions → BACnet
Building Control → FLXeon Series Controllers





PRODUCT-DETAILS

TF42-20

TF42-20 Thermal Overload Relay 16 ... 20 A



General Information	
Extended Product Type	TF42-20
Product ID	1SAZ721201R1049
EAN	4016779764971
Catalog Description	TF42-20 Thermal Overload Relay 16 ... 20 A
Long Description	The TF42-20 thermal overload relay is an economic electromechanical protection device for the main circuit. It offers reliable and fast protection for motors in the event of overload or phase failure. The device has trip class 10. Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STOP function and a trip indication. The overload relays are connected directly to the block contactors. Single mounting kits are available as accessory.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC106023D0201
Instructions and Manuals	2CDC106022M6802
Instructions and Manuals (Part 2)	1SAC200017M0002
Ex Operating Instructions	2CDC106076M6801
Time-Current Characteristic Curve	1SAZ700506F0019
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SAZ700405F0001

Dimensions

Product Net Width	45 mm
Product Net Height	88.3 mm
Product Net Depth / Length	70.5 mm
Product Net Weight	0.135 kg

Technical

Setting Range	16 ... 20 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC Main Circuit 600 V DC
Rated Operational Current (I_e)	20 A
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse Withstand Voltage (U_{imp})	Auxiliary Circuit 6 kV Main Circuit 6 kV
Rated Insulation Voltage (U_i)	690 V
Number of Poles	3P
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number of Protected Poles	3
Conventional Free-air Thermal Current (I_{th})	Auxiliary Circuit NC 6 A Auxiliary Circuit NO 4 A
Rated Operational Current AC-15 (I_e)	(120 V) NC 3 A (120 V) NO 0.5 A (240 V) NC 3 A (240 V) NO 0.5 A (400 V) NC 0.75 A (400 V) NO 0.5 A (500 V) NC 0.75 A (500 V) NO 0.5 A
Rated Operational Current DC-13 (I_e)	(125 V) NC 0.55 A (125 V) NO 0.55 A (24 V) NC 1.25 A (24 V) NO 1.25 A

	(250 V) NC 0.27 A (250 V) NO 0.27 A (500 V) NC 0.15 A (500 V) NO 0.15 A (60 V) NC 0.55 A (60 V) NO 0.55 A
Degree of Protection	IP20
Pollution Degree	3
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible 1/2x 0.75 ... 1 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 0.75 ... 4 mm ²
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 0.75 ... 4 mm ² Flexible with Insulated Ferrule 1/2x 0.75 ... 4 mm ² Flexible 1/2x 0.75 ... 4 mm ² Rigid 1/2x 0.75 ... 4 mm ²
Tightening Torque	Auxiliary Circuit 1 ... 1.2 N·m Main Circuit 1.5 ... 2.5 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 12 mm
Recommended Screw Driver	Main Circuit Pozidriv 2
Power Loss	at Rated Operating Conditions per Pole 1.8 ... 2.6 W
Suitable For	AF09 AF12 AF16 AF26 AF30 AF38
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Contact Rating UL/CSA	(NC:) B600 (NC:) Q600 (NO:) Q600 (NO:) D300
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 18-10 AWG Stranded 1/2x 18-10 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-12 AWG Stranded 1/2x 18-12 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 9 ... 11 in·lb Main Circuit 13 ... 22 in·lb

Environmental

Ambient Air Temperature	Operation -25 ... +60 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C
Ambient Air Temperature Compensation	Yes
Maximum Operating	2000 m

Altitude Permissible	
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations	5g 3 ... 150 Hz
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions	Yes
ABB Site Meeting Group Waste To Landfill Target	UL 2799 Zero Waste To Landfill Validation available
End Of Life Disassembling Instructions	1SAC200429H0001
Environmental Information	1SAC200057H0009
Environmental Product Declaration - EPD	1SAC200373H0001

Certificates and Declarations

A2L Certificate – IEC	1SAA941000-4601
ABS Certificate	1SAA941001-0102
ATEX Certificate	1SAA941010-3901
BV Certificate	1SAA941001-0203
CB Certificate	1SAA941009-2001
CCC Certificate	2024010304658956
CQC Certificate	CQC2011010309464423
Declaration of Conformity - CCC	2020980304001788
Declaration of Conformity - CE	1SAD101100-3503
Declaration of Conformity - UKCA	1SAD201100-3503
DNV GL Certificate	1SAA941001-0302
EAC Certificate	1SAA941002-2701
GL Certificate	1SAA941007-0401
IECEX Certificate	1SAA941003-4001
LR Certificate	1SAA941001-0502
RINA Certificate	1SAA941000-0802
RMRS Certificate	1SAA941000-0704
UL Certificate	E48139-20090126

Container Information

Package Level 1 Units	carton 1 piece
Package Level 1 Width	48 mm
Package Level 1 Height	92 mm
Package Level 1 Depth / Length	78 mm
Package Level 1 Gross Weight	0.15 kg
Package Level 1 EAN	4016779764971
Package Level 2 Units	carton 40 piece
Package Level 2 Width	280 mm
Package Level 2 Height	210 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Gross Weight	7.586 kg
Package Level 2 EAN	4013614440199

External Classifications and Standards

Object Classification Code	F
ETIM 9	EC000106 - Thermal overload relay
ETIM 10	EC000106 - Thermal overload relay
eClass	V11.0 : 27371501
UNSPSC	39122330
IDEA Granular Category Code (IGCC)	5366 >> Thermal overload relay
E-Number (Finland)	3706128
E-Number (Norway)	4116769
E-Number (Sweden)	3211972

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SAZ701902R0001	DB42 Single Mounting Kit	DB42	1	piece
1SAX101911R1001	DRS-F-01 Remote Reset Coil	DRS-F-01	1	piece
1SAX101911R1002	DRS-F-02 Remote Reset Coil	DRS-F-02	1	piece
1SAX101911R1003	DRS-F-03 Remote Reset Coil	DRS-F-03	1	piece
1SAX101911R1004	DRS-F-04 Remote Reset Coil	DRS-F-04	1	piece
1SAZ701904R1001	DRS-F-TF-01 Remote Coil	DRS-F-TF-01	1	piece
1SAZ701904R1002	DRS-F-TF-02 Remote Coil	DRS-F-TF-02	1	piece
1SAZ701904R1003	DRS-F-TF-03 Remote Coil	DRS-F-TF-03	1	piece
1SAZ701904R1004	DRS-F-TF-04 Remote Coil	DRS-F-TF-04	1	piece
1SAZ701903R1001	WRH-F Holder	WRH-F	1	piece
1SAZ701903R1011	WRB-400 Bowden Wire	WRB-400	1	piece
1SAZ701903R1012	WRB-600 Bowden Wire	WRB-600	1	piece
1SAZ701903R1013	WRB-1000 Bowden Wire	WRB-1000	1	piece
1SAZ701903R1030	WRBG Gasket	WRBG	1	piece
1SFA616162R1014	KPR3-101L Reset push button	KPR-101L	1	piece

Categories

Low Voltage Products and Systems → Control Products → Contactors → Thermal Overload Relays





PRODUCT-DETAILS

CAL4-11

CAL4-11 Auxiliary Contact Block



General Information	
Extended Product Type	CAL4-11
Product ID	1SBN010120R1011
EAN	3471523130043
Catalog Description	CAL4-11 Auxiliary Contact Block
Long Description	CAL4-11 is a 2-pole side mounted auxiliary contact block equipped with screw terminals and can be fitted on AF(C)09(Z)(B)...96 contactors and NF(C)(Z)(B) contactor relays. CAL4 auxiliary contact block can be clipped onto the right- and/or left-hand side of the contactors or the contactor relays and bears the corresponding function marking. CAL4-11 is available with 1 N.O. and 1 N.C. instantaneous contacts for standard industrial environments.
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85389099
Popular Downloads	

Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SBC101041M6801
Instructions and Manuals (Part 2)	1SAC200017M0002
CAD Dimensional Drawing	2CDC001079B0201

Dimensions

Product Net Width	12 mm
Product Net Depth / Length	60 mm
Product Net Height	69.4 mm
Product Net Weight	0.04 kg

Technical

Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	1
Number of Poles	2P
Standards	IEC/EN 60947-5-1, UL 60335-2-40 LZGH2 A2L, UL 60947-5-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-5-1-14
Rated Operational Voltage	Auxiliary Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 A
Rated Operational Current AC-15 (I _e)	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Rated Operational Current DC-13 (I _e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
Rated Short-time Withstand Current Low Voltage (I _{cw})	for 0.1 s 140 A for 1 s 100 A
Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
Maximum Mechanical Switching Frequency	3600 cycles per hour
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ²

	Rigid Solid 1/2x 1 ... 2.5 mm ²
	Rigid Stranded 1/2x 1 ... 2.5 mm ²
Wire Stripping Length	Auxiliary Circuit 10 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Tightening Torque	Auxiliary Circuit 1.2 N·m
Terminal Type	Screw Terminals
Suitable For	AF09
	AF09Z
	AF12
	AF12Z
	AF16
	AF16Z
	AF26
	AF26Z
	AF30
	AF30Z
	AF38
	AF38Z
	AF40
	AF52
	AF65
	AF80
	AF96
	AFC09
	AFC12
	AFC16
	AFC26
	AFC30
	AFC38
	AFC40
	AFC52
	AFC65
	AFC80
	AFC96
	AFS09
	AFS12
	AFS16
	AFS26
	AFS30
	AFS38
	AFS40
	AFS52
	AFS65
	AFS80
	AFS96
	AF09B
	AF09ZB
	AF12B
	AF12ZB
	AF16B
	AF16ZB
	AF26B
	AF26ZB
	AF30B
	AF30ZB
	AF38B
	AF38ZB
	AF40B
	AF52B
	AF65B
	AF80B
	AF96B
	NF22E
	NFZ22E
	NF31E
	NFZ31E
	NF40E
	NFZ40E
	NF44E
	NFZ44E

NF53E
NFZ53E
NF62E
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NF71E
NFZ71E
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NFZ80E
NF33/11
NF51/11
NFC22E
NFC31E
NFC40E
NFC44E
NFC53E
NFC62E
NFC71E
NFC80E
NFC33/11
NFC51/11
NFZB22E
NFB22E
NFZB31E
NFB31E
NFZB40E
NFB40E
NFZB44E
NFB44E
NFZB62E
NFB62E
NFZB80E
NFB80E

Product Name	Auxiliary Contact Block
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Technical UL/CSA

Connecting Capacity	Rigid Solid 1/2x 18-14 AWG
Auxiliary Circuit UL/CSA	Rigid Stranded 1/2x 18-14 AWG
Tightening Torque	Auxiliary Circuit 11 in-lb
UL/CSA	

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

A2L Certificate – UL	9AKK108469A4897 9AKK108469A4898
ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H24900C1
CB Certificate	FR-719194
CCC Certificate	CCC_2024010305656857

	CCC_2024010305656311
Declaration of Conformity - CCC	2020980304001258 2020980304001053
Declaration of Conformity - CE	1SBD250007U1000
Declaration of Conformity - UKCA	1SBD250038U1000
DNV Certificate	DNV_TAE00001BV-5
LR Certificate	LRS_LR23403517TA-02
RINA Certificate	RINA_ELE084013XG
RMRS Certificate	RMRS_1802703280
UL Certificate	UL-US-L252354-131-82119002-7 UL-CA-L252354-331-82119002-6
UL Listing Card	UL_E252354

Container Information

Package Level 1 Units	bag 1 piece
Package Level 1 Width	125 mm
Package Level 1 Depth / Length	125 mm
Package Level 1 Height	20 mm
Package Level 1 Gross Weight	0.04 kg
Package Level 1 EAN	3471523130043
Package Level 2 Units	box 300 piece
Package Level 2 Gross Weight	12 kg

External Classifications and Standards

Object Classification Code	K
ETIM 7	EC000041 - Auxiliary contact block
ETIM 8	EC000041 - Auxiliary contact block
ETIM 9	EC000041 - Auxiliary contact block
eClass	V11.0 : 27371302
UNSPSC	39121522
IDEA Granular Category Code (IGCC)	4743 >> Auxiliary contact block
E-Number (Finland)	3706506
E-Number (Sweden)	3211435

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors





PRODUCT-DETAILS

AF26-30-00-13
AF26-30-00-13 100-250V50/60HZ-DC
Contactors



General Information	
Extended Product Type	AF26-30-00-13
Product ID	1SBL237001R1300
EAN	3471523110939
Catalog Description	AF26-30-00-13 100-250V50/60HZ-DC Contactors
Long Description	The AF26-30-00-13 is a 3 pole - 690 V IEC or 600 UL contactor with screw terminals, controlling motors up to 11 kW / 400 V AC (AC-3) or 15 hp / 480 V UL and switching power circuits up to 45 A (AC-1) or 45 A UL general use. Thanks to the AF technology, the contactor has a wide control voltage range (100-250 V 50/60 Hz and DC), managing large control voltage variations, reducing panel energy consumptions and ensuring distinct operations in unstable networks. Furthermore, surge protection is built-in, offering a compact solution. AF contactors have a block type design, can be easily extended with add-on auxiliary contact blocks and an additional wide range of accessories.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads	
EPLAN Data	9AAC159659_EPLAN
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SBC101027M6801
Instructions and Manuals (Part 2)	1SAC200017M0002
CAD Dimensional Drawing	2CDC001079B0201

Dimensions	
Product Net Width	45 mm
Product Net Depth / Length	86 mm
Product Net Height	86 mm
Product Net Weight	0.31 kg

Technical	
Number of Main Contacts NO	3
Number of Main Contacts NC	0
Number of Auxiliary Contacts NO	0
Number of Auxiliary Contacts NC	0
Number of Poles	3P
Standards	IEC/EN 60947-1, IEC/EN 60947-4-1, UL 60335-2-40 LZGH2 A2L, UL 60947-4-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-4-1
Rated Operational Voltage	Main Circuit 690 V
Rated Frequency (f)	Control Circuit 50 / 60 Hz Main Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-4-1, Open Contactors Θ = 40 °C 50 A
Rated Operational Current AC-1 (I _e)	(690 V) 40 °C 45 A (690 V) 60 °C 40 A (690 V) 70 °C 32 A
Rated Operational Current AC-3 (I _e)	(415 V) 60 °C 26 A (440 V) 60 °C 26 A (500 V) 60 °C 23 A (690 V) 60 °C 17 A (380 / 400 V) 60 °C 26 A (220 / 230 / 240 V) 60 °C 26 A
Rated Operational Current AC-3e (I _e)	(415 V) 60 °C 26 A (440 V) 60 °C 26 A (500 V) 60 °C 23 A (690 V) 60 °C 17 A (380 / 400 V) 60 °C 26 A (220 / 230 / 240 V) 60 °C 26 A
Rated Operational Current DC-1 (I _e)	(110 V) 2 Poles in Series, 40 °C 45 A (110 V) 2 Poles in Series, 60 °C 40 A (110 V) 2 Poles in Series, 70 °C 32 A (110 V) 3 Poles in Series, 40 °C 45 A (110 V) 3 Poles in Series, 60 °C 40 A (110 V) 3 Poles in Series, 70 °C 32 A (220 V) 3 Poles in Series, 40 °C 45 A

	(220 V) 3 Poles in Series, 60 °C 40 A (220 V) 3 Poles in Series, 70 °C 32 A (72 V) 1-Pole, 40 °C 45 A (72 V) 1-Pole, 60 °C 40 A (72 V) 1-Pole, 70 °C 32 A (72 V) 2 Poles in Series, 40 °C 45 A (72 V) 2 Poles in Series, 60 °C 40 A (72 V) 2 Poles in Series, 70 °C 32 A (72 V) 3 Poles in Series, 40 °C 45 A (72 V) 3 Poles in Series, 60 °C 40 A (72 V) 3 Poles in Series, 70 °C 32 A
Rated Operational Current DC-3 (I _e)	(110 V) 2 Poles in Series, 40 °C 45 A (110 V) 2 Poles in Series, 60 °C 40 A (110 V) 2 Poles in Series, 70 °C 32 A (110 V) 3 Poles in Series, 40 °C 45 A (110 V) 3 Poles in Series, 60 °C 40 A (110 V) 3 Poles in Series, 70 °C 32 A (220 V) 3 Poles in Series, 40 °C 45 A (220 V) 3 Poles in Series, 60 °C 40 A (220 V) 3 Poles in Series, 70 °C 32 A (72 V) 1-Pole, 40 °C 45 A (72 V) 1-Pole, 60 °C 40 A (72 V) 1-Pole, 70 °C 32 A (72 V) 2 Poles in Series, 40 °C 45 A (72 V) 2 Poles in Series, 60 °C 40 A (72 V) 2 Poles in Series, 70 °C 32 A (72 V) 3 Poles in Series, 40 °C 45 A (72 V) 3 Poles in Series, 60 °C 40 A (72 V) 3 Poles in Series, 70 °C 32 A
Rated Operational Current DC-5 (I _e)	(110 V) 2 Poles in Series, 40 °C 45 A (110 V) 2 Poles in Series, 60 °C 40 A (110 V) 2 Poles in Series, 70 °C 32 A (110 V) 3 Poles in Series, 40 °C 45 A (110 V) 3 Poles in Series, 60 °C 40 A (110 V) 3 Poles in Series, 70 °C 32 A (220 V) 3 Poles in Series, 40 °C 20 A (220 V) 3 Poles in Series, 60 °C 20 A (220 V) 3 Poles in Series, 70 °C 20 A (72 V) 1-Pole, 40 °C 20 A (72 V) 1-Pole, 60 °C 20 A (72 V) 1-Pole, 70 °C 20 A (72 V) 2 Poles in Series, 40 °C 45 A (72 V) 2 Poles in Series, 60 °C 40 A (72 V) 2 Poles in Series, 70 °C 32 A (72 V) 3 Poles in Series, 40 °C 45 A (72 V) 3 Poles in Series, 60 °C 40 A (72 V) 3 Poles in Series, 70 °C 32 A
Rated Operational Power AC-3 (P _e)	(400 V) 11 kW (415 V) 11 kW (440 V) 15 kW (500 V) 15 kW (690 V) 15 kW (380 / 400 V) 11 kW (220 / 230 / 240 V) 6.5 kW
Rated Operational Power AC-3e (P _e)	(415 V) 11 kW (440 V) 15 kW (500 V) 15 kW (690 V) 15 kW (380 / 400 V) 11 kW (220 / 230 / 240 V) 6.5 kW
Rated Short-time Withstand Current Low Voltage (I _{cw})	at 40 °C Ambient Temp, in Free Air, from a Cold State 10 s 350 A at 40 °C Ambient Temp, in Free Air, from a Cold State 15 min 50 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 min 150 A at 40 °C Ambient Temp, in Free Air, from a Cold State 1 s 700 A at 40 °C Ambient Temp, in Free Air, from a Cold State 30 s 225 A
Maximum Breaking Capacity	cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 440 V 500 A cos phi=0.45 (cos phi=0.35 for I _e > 100 A) at 690 V 200 A
Rated Insulation Voltage (U _i)	acc. to IEC 60947-4-1 690 V acc. to UL/CSA 600 V

Rated Impulse Withstand Voltage (U_{imp})	6 kV
Maximum Electrical Switching Frequency	(AC-1) 600 cycles per hour (AC-2 / AC-4) 150 cycles per hour (AC-3) 1200 cycles per hour
Maximum Mechanical Switching Frequency	3600 cycles per hour
Rated Control Circuit Voltage (U_c)	50 Hz 100 ... 250 V 60 Hz 100 ... 250 V DC Operation 100 ... 250 V
Power Loss	at Rated Operating Conditions AC-1 per Pole 1.8 W at Rated Operating Conditions AC-3 per Pole 0.6 W
Operate Time	Between Coil De-energization and NC Contact Closing 13 ... 98 ms Between Coil De-energization and NO Contact Opening 11 ... 95 ms Between Coil Energization and NC Contact Opening 38 ... 90 ms Between Coil Energization and NO Contact Closing 40 ... 95 ms
Mounting on DIN Rail	TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715 TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715
Mounting by Screws (not supplied)	2 x M4 Screws Placed Diagonally
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 1.5 ... 10 mm ² Flexible with Insulated Ferrule 1x 1.5 ... 10 mm ² Flexible with Insulated Ferrule 2x 1.5 ... 4 mm ² Rigid Solid 1/2x 2.5 ... 4 mm ² Rigid Stranded 1/2x 2.5 ... 10 mm ²
Connecting Capacity Control Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ²
Wire Stripping Length	Control Circuit 10 mm Main Circuit 14 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Coil Terminals IP20 acc. to IEC 60529, IEC 60947-1, EN 60529 Main Terminals IP20
Tightening Torque	Control Circuit 1.2 N·m Main Circuit 2.5 N·m
Terminal Type	Screw Terminals
Product Name	Block Contactor

Technical UL/CSA

NEMA Size	1
Continuous Current Rating NEMA	27 A
Horsepower Rating NEMA	(115 V AC) Single Phase 2 Hp (200 V AC) Three Phase 7-1/2 Hp (230 V AC) Single Phase 3 Hp (230 V AC) Three Phase 7-1/2 Hp (460 V AC) Three Phase 10 Hp (575 V AC) Three Phase 10 Hp
Maximum Operating Voltage UL/CSA	Main Circuit 600 V
General Use Rating UL/CSA	(600 V AC) 45 A
Horsepower Rating UL/CSA	(120 V AC) Single Phase 2 hp (200 ... 208 V AC) Three Phase 7-1/2 hp (220 ... 240 V AC) Three Phase 7-1/2 hp (240 V AC) Single Phase 3 hp (440 ... 480 V AC) Three Phase 15 hp (550 ... 600 V AC) Three Phase 20 hp
Connecting Capacity Main Circuit UL/CSA	Rigid Solid 1/2x 14-10 AWG Rigid Stranded 1/2x 14-8 AWG

Connecting Capacity	Rigid Solid 1/2x 18-14 AWG
Control Circuit UL/CSA	Rigid Stranded 1/2x 18-14 AWG
Tightening Torque	Control Circuit 11 in-lb
UL/CSA	Main Circuit 22 in-lb
Full Load Amps Motor	(120 V AC) Single Phase 24 A
Use	(200 ... 208 V AC) Three Phase 25.3 A
	(220 ... 240 V AC) Three Phase 22 A
	(240 V AC) Single Phase 17 A
	(440 ... 480 V AC) Three Phase 21 A
	(550 ... 600 V AC) Three Phase 22 A

Environmental

Ambient Air Temperature	Close to Contactor Fitted with Thermal O/L Relay -25 ... 60 °C
	Close to Contactor without Thermal O/L Relay -40 ... 70 °C
	Close to Contactor for Storage -60 ... +80 °C
Climatic Withstand	Category B according to IEC 60947-1 Annex Q
Maximum Operating Altitude Permissible	Without Derating 3000 m
Resistance to Shock acc. to IEC 60068-2-27	Closed, Shock Direction: B1 25 g
	Open, Shock Direction: B1 5 g
	Shock Direction: A 30 g
	Shock Direction: B2 15 g
	Shock Direction: C1 25 g
	Shock Direction: C2 25 g
Resistance to Vibrations	4g Closed Position & 2g Open position 5 ... 300 Hz
Pollution Degree	3

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
SCIP	7ecf2e54-f412-43b8-a8b6-f76449ceacf0 China
Simplified SCIP	9d16e54f-6686-406e-b14f-0cee1717e24b Estonia
	37f3e77c-795e-41ee-b433-5c1794ce6c9f Norway
	c4403672-cc97-4b2d-a454-093c5bdbc0cb Poland
	cfb0408b-ba9b-48ab-901c-b020f8b19980 Poland
	50053f28-5503-45f1-9216-9c6153ff7c92 Croatia
	6b0d03d8-ef7c-4172-83cb-7d93cddc8742 Germany
	ed8aca28-3375-4793-aa35-19886c194ca8 Czech Republic
	c2440a4a-0fc3-4333-b049-16519c9881df Hungary
	9d2c81de-3f4d-4249-a51b-c1b177e19539 Belgium
	afa8983c-e5a2-4fde-b1d7-6bf2e8d96c79 Sweden
	485bc883-a6ce-4552-a15a-da10257b9607 France
	14d33d6f-4b5e-4e0e-b342-8cfc4ba5a2c9 Poland
	b8c1ba93-f584-410e-92b8-54d0ba47a423 Germany
	de3d8d83-9e65-4128-8963-0d0484118cb3 France
	531e9494-6c9c-4abc-a5af-da0b16b0f7ef Germany
	8233522d-460d-47d7-a4cd-1e65521b7d63 Germany
	2cfe5e3d-3504-4045-864e-2829c08e0738 Denmark
	5e33d089-78e4-4d6b-8056-dd2f81a6aacc Sweden
	30aa3dc6-6fdb-459e-845e-8598288ccde5 Germany
	4aefcb2d-c513-4f5e-a9a4-32a65a38d38f Portugal
	494382ca-a4c6-41e3-a2ba-63b24bdfff79 Belgium
	d41d1cf2-832c-4c8c-b21b-2c05c687541b Greece
	41a24e46-e6a4-4ff2-b9d0-f89775cf0a5f Bulgaria
	ce0aed02-bd40-49e4-b9b4-cfd41985524a Hungary
	b07f208c-c45d-421b-8981-bfcef052fa0d Netherlands
	c2dff4eb-46ff-42c4-a65b-a1a9ee75a19d Spain
	24fc9fcb-5e79-463c-963b-c3d91fa717e5 Finland

Toxic Substances
Control Act - TSCA

2CMT2023-006525

WEEE B2C / B2B

Business To Business

WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions	Yes
ABB Site Meeting Group Waste To Landfill Target	No non-hazardous waste is sent to a landfill
End Of Life Disassembling Instructions	1SBC101080M6801
Environmental Product Declaration - EPD	1SBD250584E4000
Improved Energy Efficiency for Customers	Product Efficiency - Product considered more energy-efficient compared to similar product on market or older products from the same line
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 94.3 %

Certificates and Declarations

A2L Certificate – UL	9AKK108469A4875 9AKK108469A4879
ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H24898C1
CB Certificate	CB_SE-116364
CCC Certificate	CCC_2024010304656668
CQC Certificate	CQC2010010304445623 CQC2020010304294316
Declaration of Conformity - CCC	2020980304001254 2020980304001052
Declaration of Conformity - CE	1SBD250000U1000
Declaration of Conformity - UKCA	1SBD250031U1000
DNV Certificate	DNV_TAE00001AF-4
KC Certificate	KC_HW02016-15001C
LR Certificate	LRS_LR23403517TA-02
RINA Certificate	RINA_ELE142224XG
RMRS Certificate	RMRS_1802705280
UL Certificate	UL-US-2150887-5 UL-CA-2142658-5
UL Listing Card	E312527

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	87 mm
Package Level 1 Depth / Length	87 mm
Package Level 1 Height	47 mm
Package Level 1 Gross Weight	0.31 kg
Package Level 1 EAN	3471523110939
Package Level 2 Units	box 21 piece

Package Level 2 Width	250 mm
Package Level 2 Depth / Length	300 mm
Package Level 2 Height	315 mm
Package Level 2 Gross Weight	6.51 kg

External Classifications and Standards

Object Classification Code	Q
ETIM 7	EC000066 - Power contactor, AC switching
ETIM 8	EC000066 - Power contactor, AC switching
ETIM 9	EC000066 - Power contactor, AC switching
eClass	V11.0 : 27371003
UNSPSC	39121529
IDEA Granular Category Code (IGCC)	4758 >> lec Contactors
E-Number (Finland)	3706264
E-Number (Sweden)	3211378

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors → AF Contactors → AF26





PRODUCT-DETAILS

MCBH-00

MCBH-00 Contact Block Holder



360°

General Information	
Extended Product Type	MCBH-00
Product ID	1SFA611605R1100
EAN	7320500544310
Catalog Description	MCBH-00 Contact Block Holder
Long Description	The MCBH-00 Contact Block Holder is: Maintained/Momentary - Front mounting - 3 This Contact Block Holder is part of ABB's modular plastic range, the most versatile range with a high level of flexibility and market-leading electrical ratings. Engineered for total reliability, longer lifetime, and highest mechanical durability. Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime. A high degree of protection guarantees reliability in extreme environments. The innovative design simplifies the entire process, from selection to easy and quick, tool-free installation. The perfect solution for every application.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8538909999

Popular Downloads	
Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201

Dimensions	
Product Net Width	0.03 m
Product Net Height	0.048 m
Product Net Depth / Length	0.013 m
Product Net Weight	0.01 kg

Technical	
Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Mounting Type	Front mounting
Suitable For	MP1
	MP2
	MP3
	MP4
	MPD1
	MPD2
	MPD3
	MPD4
	MPD5
	MPD11
	MPD12
	MPD13
	MPD14
	MPD15
	MPD16
	MPM1
	MPM2
	KP6
	MPET3
	MPEP3
	MPEK3
	MPET4
	MPEP4
	MPEK4
	MPMT3
	MPMT4
	MPMP3
	MPMP4
	M2SS1
	M2SS2
	M2SS3
	M2SS4
	M2SS5
	M2SS6
	M3SS1
	M3SS2
	M3SS3
	M3SS4
	M3SS5
	M3SS6
	M3SS7
	M3SS8
	M3SSC1
	M3SSC2
	M3SSC3

	M3SSC4
	M3SSC5
	M3SSC6
	M3SSC7
	M3SSC8
	M2SSK1
	M2SSK2
	M2SSK3
	M3SSK1
	M3SSK2
	M3SSK3
	MTS1
	MTS2
	MTS3
	MJS1
	MJS2
	MJS5
	MJS6
	MJS7
	MJS8
	MJS11
	MJS12
Suitable for Product Class	Pilot Devices

Environmental

Degree of Protection	Terminals IP20
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE Category	Product Not in WEEE Scope

Certificates and Declarations

cULus Certificate	UL-E76003-20140513
Declaration of Conformity - CE	2CMT2015-005452
Declaration of Conformity - UKCA	2CMT2020-006121

Container Information

Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.11 m
Package Level 1 Depth / Length	0.15 m
Package Level 1 Height	0.02 m
Package Level 1 Gross Weight	0.1 kg
Package Level 1 EAN	7320500307465

External Classifications and Standards		
Object Classification Code		S
ETIM 6	EC001020 - Adapter for control circuit devices	
ETIM 7	EC001020 - Adapter for control circuit devices	
ETIM 8	EC001020 - Adapter for command devices	
eClass		V11.0 : 27371302
UNSPSC		39122221
IDEA Granular Category Code (IGCC)	5219 >> Switch part or accessory	
E-Number (Finland)		2339091
E-Number (Norway)		4373197
E-Number (Sweden)		3714000

Where Used (as a spare part for "Products")			
Identifier	Description	Quantity	Unit Of Measure
3HAC020536-015	No Description Available	1	piece
IRB 1400 M2004	No Description Available	1	piece
ABB3HAC020536-001	No Description Available	1	piece

Product specific part data				
Product	Robot Design Year	Robot Part Location	Robotics Part Category	Category
3HAC020536-015	IRB 360 M2004	Arm System and External Details	Misc Parts - Fitting/Gasket/Washer	
IRB 1400 M2004		Base and Frame	Assembly Casting/Machining	IRB 1400-5/1,44
ABB3HAC020536-001		Base and Frame	Misc Parts - Fitting/Gasket/Washer	

Categories
Low Voltage Products and Systems → Control Products → Pilot Devices → Modular Plastic Range
Low Voltage Products and Systems → Low Voltage Systems → IEC - Low Voltage Motor Control Centers → MNS 3.0 - MCC
Low Voltage Products and Systems → Service → Spares and Consumables → Parts
Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)
Robotics → Robots → Articulated Robots → IRB 1400 → IRB 1400-5/1,44
Robotics → Robots → Parallel Robots → IRB 360 → IRB 360





PRODUCT-DETAILS

1M100100

CBX-8R8 B-AAC: 16 I/O 4 Modbus Devices (40 Modbus Points)



General Information	
Global Commercial Alias	1M100100
Extended Product Type	CBX-8R8
Product ID	2CQG201003R1021
EAN	5391539122642
Catalog Description	CBX-8R8 B-AAC: 16 I/O 4 Modbus Devices (40 Modbus Points)
Long Description	16- Point BACnet® B-AAC programmable controller for control and monitoring of HVAC equipment and plants. Controller features 8 UniPuts™ with Relay outputs (software configurable for AI, AO, DI or DO-R (Relay)) and 8 UI. Includes support for 4 Modbus® RTU devices or 40 points.

Installation	
Instructions and Manuals	MAN0106

Environmental	
Ambient Air	-25 ... 50 °C

Temperature	
Degree of Protection	IP20

Technical

Data Sheet, Technical Information	DS0119 BDS0020
Communication Interface	MS/TP
Number of Channels	16
Number of Digital Inputs	8
Number of Inputs	Universal 8
Analog Inputs	8
Analog Outputs	8
Number of Batteries	1
Battery Chemical Composition	Lithium Metal
Battery Weight	3.2 g

Electrical

Supply Voltage	24 ... 24 V
Voltage Range	19.2 ... 28.8 V
Input Voltage Type	AC/DC
	50 V·A

Dimensions

Product Net Width	90 mm
Product Net Height	57 mm
Product Net Depth / Length	163 mm
Product Net Weight	0.3 kg
Dimension Diagram	9AKK108468A0098

Material Compliance

RoHS Declaration	CDOC1801
RoHS Information	Following EU Directive 2011/65/EU
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business
Battery Type	Button Cell

Certificates and Declarations

Declaration of Conformity - CE	CDOC1801
EU Data Act Compliance Declaration	9AKK108471A0690
EU Data Act Applicability and Compliance	2025 Applicable - Compliant

External Classifications and Standards

ETIM 9	EC011487 - Free programmable controller
ETIM 10	EC011487 - Free programmable controller

Categories

Low Voltage Products and Systems → Building and Home Automation Solutions → Building Management Solutions → BACnet Building Control → CBX Series Main Plant Controllers





PRODUCT-DETAILS

CA4-10

CA4-10 Auxiliary Contact Block



General Information	
Extended Product Type	CA4-10
Product ID	1SBN010110R1010
EAN	3471523130005
Catalog Description	CA4-10 Auxiliary Contact Block
Long Description	CA4-10 is a 1-pole front mounted auxiliary contact block equipped with screw terminals and can be fitted on AF(C)09(Z)(B)...96 contactors and NF(C)(Z)(B) contactor relays. CA4-10 is available with 1 N.O. instantaneous contacts for standard industrial environments.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85389099

Popular Downloads	
Data Sheet, Technical Information	1SBC100214C0202
Instructions and Manuals	1SBC101041M6801
Instructions and Manuals	1SAC200017M0002

(Part 2)

CAD Dimensional Drawing	2CDC001079B0201
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Dimensions

Product Net Width	9.9 mm
Product Net Depth / Length	39.5 mm
Product Net Height	43 mm
Product Net Weight	0.014 kg

Technical

Number of Auxiliary Contacts NO	1
Number of Auxiliary Contacts NC	0
Number of Poles	1P
Standards	IEC/EN 60947-5-1, UL 60335-2-40 LZGH2 A2L, UL 60947-5-1, CSA C22.2 No. 60335-2-40 LZGH2 A2L, CSA C22.2 No. 60947-5-1-14
Rated Operational Voltage	Auxiliary Circuit 690 V
Rated Frequency (f)	Auxiliary Circuit 50 / 60 Hz
Conventional Free-air Thermal Current (I_{th})	acc. to IEC 60947-5-1, $\Theta = 40^\circ\text{C}$ 16 A
Rated Operational Current AC-15 (I_e)	(500 V) 2 A (690 V) 2 A (24 / 127 V) 6 A (220 / 240 V) 4 A (400 / 440 V) 3 A
Rated Operational Current DC-13 (I_e)	(24 V) 6 A / 144 W (48 V) 2.8 A / 134 W (72 V) 1 A / 72 W (110 V) 0.55 A / 60 W (125 V) 0.55 A / 69 W (220 V) 0.27 A / 60 W (250 V) 0.27 A / 68 W (400 V) 0.15 A / 60 W (500 V) 0.13 A / 65 W (600 V) 0.1 A / 60 W
Rated Short-time Withstand Current Low Voltage (I_{cw})	for 0.1 s 140 A for 1 s 100 A
Rated Insulation Voltage (U_i)	acc. to IEC 60947-5-1 690 V acc. to UL/CSA 600 V
Rated Impulse Withstand Voltage (U_{imp})	6 kV
Maximum Electrical Switching Frequency	(AC-15) 1200 cycles per hour (DC-13) 900 cycles per hour
Maximum Mechanical Switching Frequency	3600 cycles per hour
Power Loss	at 6 A per Pole 0.1 W
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Rigid 1/2x 1 ... 2.5 mm ² Rigid Solid 1/2x 1 ... 2.5 mm ² Rigid Stranded 1/2x 1 ... 2.5 mm ²
Wire Stripping Length	Auxiliary Circuit 10 mm
Degree of Protection	acc. to IEC 60529, IEC 60947-1, EN 60529 Auxiliary Terminals IP20
Tightening Torque	Auxiliary Circuit 1.2 N·m
Terminal Type	Screw Terminals
Suitable For	AF09 AF09Z AF12 AF12Z

AF16
AF16Z
AF26
AF26Z
AF30
AF30Z
AF38
AF38Z
AF40
AF52
AF65
AF80
AF96
AFC09
AFC12
AFC16
AFC26
AFC30
AFC38
AFC40
AFC52
AFC65
AFC80
AFC96
AF09B
AF09ZB
AF12B
AF12ZB
AF16B
AF16ZB
AF26B
AF26ZB
AF30B
AF30ZB
AF38B
AF38ZB
AF40B
AF52B
AF65B
AF80B
AF96B
NF22E
NFZ22E
NF31E
NFZ31E
NF40E
NFZ40E
NFC22E
NFC31E
NFC40E
NFZB22E
NFB22E
NFZB31E
NFB31E
NFZB40E
NFB40E

Product Name	Auxiliary Contact Block
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Technical UL/CSA

Connecting Capacity	Rigid Solid 1/2x 18-14 AWG
Auxiliary Circuit UL/CSA	Rigid Stranded 1/2x 18-14 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 11 in-lb

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

Toxic Substances Control
Act - TSCA

2CMT2023-006525

WEEE B2C / B2B

Business To Business

WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations

A2L Certificate - UL	9AKK108469A4897 9AKK108469A4898
ABS Certificate	ABS_20-2060694-PDA
BV Certificate	BV_2634H24900C1
CB Certificate	FR-719194
CCC Certificate	CCC_2024010305656857 CCC_2024010305656311
Declaration of Conformity - CCC	2020980304001258 2020980304001259 2020980304001053
Declaration of Conformity - CE	1SBD250007U1000
Declaration of Conformity - UKCA	1SBD250038U1000
DNV Certificate	DNV_TAE00001BV-5
LR Certificate	LRS_LR23403517TA-02
RINA Certificate	RINA_ELE084013XG
RMRS Certificate	RMRS_1802703280
UL Certificate	UL-US-L252354-131-82119002-7 UL-CA-L252354-331-82119002-6
UL Listing Card	UL_E252354

Container Information

Package Level 1 Units	bag 1 piece
Package Level 1 Width	100 mm
Package Level 1 Depth / Length	100 mm
Package Level 1 Height	10 mm
Package Level 1 Gross Weight	0.014 kg
Package Level 1 EAN	3471523130005
Package Level 2 Units	box 720 piece
Package Level 2 Gross Weight	10.08 kg

External Classifications and Standards

Object Classification Code	K
ETIM 7	EC000041 - Auxiliary contact block
ETIM 8	EC000041 - Auxiliary contact block
ETIM 9	EC000041 - Auxiliary contact block
eClass	V11.0 : 27371302
UNSPSC	39121522
IDEA Granular Category Code (IGCC)	4743 >> Auxiliary contact block
E-Number (Finland)	3706500
E-Number (Sweden)	3211416

Categories

Low Voltage Products and Systems → Control Products → Contactors → Block Contactors





PRODUCT-DETAILS

TF42-29

TF42-29 Thermal Overload Relay 24 ... 29 A



General Information	
Extended Product Type	TF42-29
Product ID	1SAZ721201R1052
EAN	4016779764988
Catalog Description	TF42-29 Thermal Overload Relay 24 ... 29 A
Long Description	The TF42-29 thermal overload relay is an economic electromechanical protection device for the main circuit. It offers reliable and fast protection for motors in the event of overload or phase failure. The device has trip class 10. Further features are the temperature compensation, trip contact (NC), signal contact (NO), automatic- or manual reset selectable, trip-free mechanism, STOP function and a trip indication. The overload relays are connected directly to the block contactors. Single mounting kits are available as accessory.

Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85364900

Popular Downloads

Data Sheet, Technical Information	2CDC106023D0201
Instructions and Manuals	2CDC106022M6802
Instructions and Manuals (Part 2)	1SAC200017M0002
Ex Operating Instructions	2CDC106076M6801
Time-Current Characteristic Curve	1SAZ700506F0021
CAD Dimensional Drawing	2CDC001079B0201
Dimension Diagram	1SAZ700405F0001

Dimensions

Product Net Width	45 mm
Product Net Height	88.3 mm
Product Net Depth / Length	70.5 mm
Product Net Weight	0.145 kg

Technical

Setting Range	24 ... 29 A
Rated Operational Voltage	Auxiliary Circuit 600 V AC/DC Main Circuit 690 V AC Main Circuit 600 V DC
Rated Operational Current (I_e)	29 A
Rated Frequency (f)	Auxiliary Circuit 50 Hz Auxiliary Circuit 60 Hz Auxiliary Circuit DC Main Circuit 50 Hz Main Circuit 60 Hz
Rated Impulse Withstand Voltage (U_{imp})	Auxiliary Circuit 6 kV Main Circuit 6 kV
Rated Insulation Voltage (U_i)	690 V
Number of Poles	3P
Number of Auxiliary Contacts NC	1
Number of Auxiliary Contacts NO	1
Number of Protected Poles	3
Conventional Free-air Thermal Current (I_{th})	Auxiliary Circuit NC 6 A Auxiliary Circuit NO 4 A
Rated Operational Current AC-15 (I_e)	(120 V) NC 3 A (120 V) NO 0.5 A (240 V) NC 3 A (240 V) NO 0.5 A (400 V) NC 0.75 A (400 V) NO 0.5 A (500 V) NC 0.75 A (500 V) NO 0.5 A
Rated Operational Current DC-13 (I_e)	(125 V) NC 0.55 A (125 V) NO 0.55 A (24 V) NC 1.25 A (24 V) NO 1.25 A

	(250 V) NC 0.27 A (250 V) NO 0.27 A (500 V) NC 0.15 A (500 V) NO 0.15 A (60 V) NC 0.55 A (60 V) NO 0.55 A
Degree of Protection	IP20
Pollution Degree	3
Connecting Capacity Auxiliary Circuit	Flexible with Ferrule 1/2x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 1x 0.75 ... 2.5 mm ² Flexible with Insulated Ferrule 2x 0.75 ... 1.5 mm ² Flexible 1/2x 0.75 ... 1 mm ² Flexible 1/2x 1 ... 2.5 mm ² Rigid 1/2x 0.75 ... 4 mm ²
Connecting Capacity Main Circuit	Flexible with Ferrule 1/2x 2.5 ... 10 mm ² Flexible with Ferrule 1/2x 1.5 ... 2.5 mm ² Flexible with Insulated Ferrule 1/2x 1.5 ... 6 mm ² Flexible 1/2x 2.5 ... 4 mm ² Flexible 1/2x 4 ... 6 mm ² Rigid 1/2x 1.5 ... 2.5 mm ² Rigid 1/2x 2.5 ... 10 mm ²
Tightening Torque	Auxiliary Circuit 1 ... 1.2 N·m Main Circuit 2.5 ... 2.7 N·m
Wire Stripping Length	Auxiliary Circuit 9 mm Main Circuit 12 mm
Recommended Screw Driver	Main Circuit Pozidriv 2
Power Loss	at Rated Operating Conditions per Pole 1.8 ... 2.6 W
Suitable For	AF09 AF12 AF16 AF26 AF30 AF38
Standards	IEC/EN 60947-1 IEC/EN 60947-4-1 IEC/EN 60947-5-1 UL 60947-1 UL 60947-4-1 IEC 60335-2-40 A2L

Technical UL/CSA

Maximum Operating Voltage UL/CSA	Main Circuit 600 V AC
Contact Rating UL/CSA	(NC:) B600 (NC:) Q600 (NO:) Q600 (NO:) D300
Connecting Capacity Main Circuit UL/CSA	Flexible 1/2x 14-6 AWG Stranded 1/2x 14-6 AWG
Connecting Capacity Auxiliary Circuit UL/CSA	Flexible 1/2x 18-12 AWG Stranded 1/2x 18-12 AWG
Tightening Torque UL/CSA	Auxiliary Circuit 9 ... 11 in·lb Main Circuit 22 in·lb

Environmental

Ambient Air Temperature	Operation -25 ... +60 °C Operation Compensated -25 ... +60 °C Storage -50 ... +80 °C
Ambient Air Temperature	Yes

Compensation	
Maximum Operating Altitude Permissible	2000 m
Resistance to Shock acc. to IEC 60068-2-27	11 ms Pulse 25g
Resistance to Vibrations	5g 3 ... 150 Hz
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006525

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2021-006202
RoHS Declaration	2CMT2021-006277
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

ABB EcoSolutions

ABB EcoSolutions	Yes
ABB Site Meeting Group Waste To Landfill Target	UL 2799 Zero Waste To Landfill Validation available
End Of Life Disassembling Instructions	1SAC200429H0001
Environmental Information	1SAC200057H0009
Environmental Product Declaration - EPD	1SAC200373H0001

Certificates and Declarations

A2L Certificate – IEC	1SAA941000-4601
ABS Certificate	1SAA941001-0102
ATEX Certificate	1SAA941010-3901
BV Certificate	1SAA941001-0203
CB Certificate	1SAA941009-2001
CCC Certificate	2024010304658956
CQC Certificate	CQC2011010309464423
Declaration of Conformity - CCC	2020980304001788
Declaration of Conformity - CE	1SAD101100-3503
Declaration of Conformity - UKCA	1SAD201100-3503
DNV GL Certificate	1SAA941001-0302
EAC Certificate	1SAA941002-2701
GL Certificate	1SAA941007-0401
IECEX Certificate	1SAA941003-4001
LR Certificate	1SAA941001-0502
RINA Certificate	1SAA941000-0802
RMRS Certificate	1SAA941000-0704
UL Certificate	E48139-20090126

Container Information

Package Level 1 Units	carton 1 piece
Package Level 1 Width	48 mm
Package Level 1 Height	92 mm
Package Level 1 Depth / Length	78 mm
Package Level 1 Gross Weight	0.16 kg
Package Level 1 EAN	4016779764988
Package Level 2 Units	carton 40 piece
Package Level 2 Width	280 mm
Package Level 2 Height	210 mm
Package Level 2 Depth / Length	395 mm
Package Level 2 Gross Weight	8.066 kg
Package Level 2 EAN	4013614440212

External Classifications and Standards

Object Classification Code	F
ETIM 9	EC000106 - Thermal overload relay
ETIM 10	EC000106 - Thermal overload relay
eClass	V11.0 : 27371501
UNSPSC	39122330
IDEA Granular Category Code (IGCC)	5366 >> Thermal overload relay
E-Number (Finland)	3706130
E-Number (Norway)	4116781
E-Number (Sweden)	3211974

Accessories

Identifier	Description	Type	Quantity	Unit Of Measure
1SAZ701902R0001	DB42 Single Mounting Kit	DB42	1	piece
1SAX101911R1001	DRS-F-01 Remote Reset Coil	DRS-F-01	1	piece
1SAX101911R1002	DRS-F-02 Remote Reset Coil	DRS-F-02	1	piece
1SAX101911R1003	DRS-F-03 Remote Reset Coil	DRS-F-03	1	piece
1SAX101911R1004	DRS-F-04 Remote Reset Coil	DRS-F-04	1	piece
1SAZ701904R1001	DRS-F-TF-01 Remote Coil	DRS-F-TF-01	1	piece
1SAZ701904R1002	DRS-F-TF-02 Remote Coil	DRS-F-TF-02	1	piece
1SAZ701904R1003	DRS-F-TF-03 Remote Coil	DRS-F-TF-03	1	piece
1SAZ701904R1004	DRS-F-TF-04 Remote Coil	DRS-F-TF-04	1	piece
1SAZ701903R1001	WRH-F Holder	WRH-F	1	piece
1SAZ701903R1011	WRB-400 Bowden Wire	WRB-400	1	piece
1SAZ701903R1012	WRB-600 Bowden Wire	WRB-600	1	piece
1SAZ701903R1013	WRB-1000 Bowden Wire	WRB-1000	1	piece
1SAZ701903R1030	WRBG Gasket	WRBG	1	piece
1SFA616162R1014	KPR3-101L Reset push button	KPR-101L	1	piece

Categories

Low Voltage Products and Systems → Control Products → Contactors → Thermal Overload Relays





PRODUCT-DETAILS

MP4-11G

MP4-11G Pushbutton



General Information	
Extended Product Type	MP4-11G
Product ID	1SFA611103R1102
EAN	7320500273678
Catalog Description	MP4-11G Pushbutton
Long Description	The MP4-11G Pushbutton is: Momentary - Extended - Green - Illuminated - Black Plastic - No contact block This Pushbutton is part of ABB's modular plastic range, the most versatile range with a high level of flexibility and market-leading electrical ratings. Engineered for total reliability, longer lifetime, and highest mechanical durability. Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime. A high degree of protection guarantees reliability in extreme environments. The innovative design simplifies the entire process, from selection to easy and quick, tool-free installation. The perfect solution for every application.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8536508000

Popular Downloads

Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201
Marketing Video	1SFC151037V0001

Dimensions

Product Net Width	0.029 m
Product Net Height	0.029 m
Product Net Depth / Length	0.039 m
Product Net Weight	0.013 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Green
Actuator Type	Extended
Bezel Material	Plastic
Illumination	Illuminated
Function	Maintained
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Mechanical Durability	2 million

Environmental

Degree of Protection	Front IP66
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE Category	Product Not in WEEE Scope

Certificates and Declarations

cULus Certificate	9AKK107046A9925
Declaration of Conformity - CE	2CMT2015-005452

Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	E-14107

Container Information

Package Level 1 Units	bag 1 piece
Package Level 1 Width	0.135 m
Package Level 1 Depth / Length	0.145 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.016 kg
Package Level 1 EAN	7320500273678

External Classifications and Standards

Object Classification Code	S
ETIM 6	EC000221 - Front element for push button
ETIM 7	EC000221 - Front element for push button
ETIM 8	EC000221 - Front element for push button
eClass	V11.0 : 27371210
UNSPSC	39122216
IDEA Granular Category Code (IGCC)	5212 >> Push button for distribution board
E-Number (Finland)	2313694
E-Number (Norway)	4372028
E-Number (Sweden)	3715232

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Modular Plastic Range → MP Pushbutton





PRODUCT-DETAILS

MP4-11G

MP4-11G Pushbutton



General Information	
Extended Product Type	MP4-11G
Product ID	1SFA611103R1102
EAN	7320500273678
Catalog Description	MP4-11G Pushbutton
Long Description	The MP4-11G Pushbutton is: Momentary - Extended - Green - Illuminated - Black Plastic - No contact block This Pushbutton is part of ABB's modular plastic range, the most versatile range with a high level of flexibility and market-leading electrical ratings. Engineered for total reliability, longer lifetime, and highest mechanical durability. Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime. A high degree of protection guarantees reliability in extreme environments. The innovative design simplifies the entire process, from selection to easy and quick, tool-free installation. The perfect solution for every application.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8536508000

Popular Downloads

Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201
Marketing Video	1SFC151037V0001

Dimensions

Product Net Width	0.029 m
Product Net Height	0.029 m
Product Net Depth / Length	0.039 m
Product Net Weight	0.013 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Green
Actuator Type	Extended
Bezel Material	Plastic
Illumination	Illuminated
Function	Maintained
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Mechanical Durability	2 million

Environmental

Degree of Protection	Front IP66
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE Category	Product Not in WEEE Scope

Certificates and Declarations

cULus Certificate	9AKK107046A9925
Declaration of Conformity - CE	2CMT2015-005452

Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	E-14107

Container Information

Package Level 1 Units	bag 1 piece
Package Level 1 Width	0.135 m
Package Level 1 Depth / Length	0.145 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.016 kg
Package Level 1 EAN	7320500273678

External Classifications and Standards

Object Classification Code	S
ETIM 6	EC000221 - Front element for push button
ETIM 7	EC000221 - Front element for push button
ETIM 8	EC000221 - Front element for push button
eClass	V11.0 : 27371210
UNSPSC	39122216
IDEA Granular Category Code (IGCC)	5212 >> Push button for distribution board
E-Number (Finland)	2313694
E-Number (Norway)	4372028
E-Number (Sweden)	3715232

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Modular Plastic Range → MP Pushbutton





PRODUCT-DETAILS

C2SS2-10B-10

C2SS2-10B-10 Selector Switch



360°

General Information	
Extended Product Type	C2SS2-10B-10
Product ID	1SFA619201R1016
EAN	7320500554876
Catalog Description	C2SS2-10B-10 Selector Switch
Long Description	The C2SS2-10B-10 Selector Switch is: Compact - Selector Switch - 2-position - Maintained - Short handle - Black - Non-illuminated - Black Plastic - 1NO - 1 NO - 0 NC - 24 ... 300, 300 V
	This Selector Switch is part of ABB's compact range, the most efficient all-in-one solution available, reducing installation time and cost.
	The compact range has a high level of dust and water resistance.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8536508000

Popular Downloads

Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201

Dimensions

Product Net Width	0.03 m
Product Net Height	0.03 m
Product Net Depth / Length	0.072 m
Product Net Weight	0.02 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Black
Actuator Type	Short handle
Bezel Material	Plastic
Illumination	Non-illuminated
Function	Maintained
Sub-Function	2-position
Maintained Positions	A, C
Number of Auxiliary Contacts NC	0
Number of Auxiliary Contacts NO	1
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X
Pollution Degree	3
Rated Insulation Voltage (U _i)	300 V
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Rated Frequency (f)	50 / 60 Hz
Rated Operational Voltage	24 ... 300 V Maximum 300 V
Rated Operational Current DC-13 (I _e)	(24 V) 0.3 A (125 V) 0.2 A
Rated Operational Current AC-15 (I _e)	(240 V) 2 A (220 / 240 V) 2 A
Power Loss	Maximum 2.5 W
Mechanical Durability	0.5 million
Connecting Capacity	Flexible with Ferrule 1 x 0.5...1.5 mm ² Flexible with Ferrule 2 x 0.5...1.5 mm ² Flexible with Insulated Ferrule 1 x 0.5...1.5 mm ² Flexible with Insulated Ferrule 2 x 0.5...1.5 mm ² Flexible 1 x 0.5 ...1.5 mm ² Flexible 2 x 0.5 ...1.5 mm ² Solid 1 x 0.5...1.5 mm ² Solid 2 x 0.5...1.5 mm ²
Terminal Type	Screw Terminals
Tightening Torque	0.8 N·m

Wire Stripping Length	6 mm
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Technical UL/CSA	
Connecting Capacity	1x 22...14 AWG
UL/CSA	2x 22...14 AWG

Environmental	
Degree of Protection	Front IP66 Front IP67 Front IP69K Terminals IP20

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE B2C / B2B	Business To Business
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Certificates and Declarations	
CB Certificate	CQC_CN_CN50749
CQC Certificate	CQC2003010305054693
cURus Certificate	UL_E496500-20171020
Declaration of Conformity - CCC	2020980305001187
Declaration of Conformity - CE	2CMT2015-005451
Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	9AKK107046A3749
EAC Certificate	RU C-CN.ME77.B.00587/20

Container Information	
Package Level 1 Units	bag 10 piece
Package Level 1 Width	0.235 m
Package Level 1 Depth / Length	0.125 m
Package Level 1 Height	0.035 m
Package Level 1 Gross Weight	0.2 kg
Package Level 1 EAN	7320500245828

External Classifications and Standards	
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Object Classification Code	S	
ETIM 6	EC001029 - Selector switch, complete	
ETIM 7	EC001029 - Selector switch, complete	
ETIM 8	EC001029 - Selector switch, complete	
eClass	V11.0 : 27371243	
UNSPSC	39122217	
IDEA Granular Category Code (IGCC)	5215 >> Selector Switch Complete Assemblies	
E-Number (Finland)	2312867	
E-Number (Sweden)	3705538	

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Compact Range → CSS Compact Selector Switches





PRODUCT-DETAILS

M3SSC1-10B

M3SSC1-10B Selector Switch



360°

General Information	
Extended Product Type	M3SSC1-10B
Product ID	1SFA611250R1006
EAN	7320500374993
Catalog Description	M3SSC1-10B Selector Switch
Long Description	The M3SSC1-10B Selector Switch is: 3-position - Maintained/Momentary - Short handle - Black - Non-illuminated - Black Plastic - No contact block This Selector Switch is part of ABB's modular plastic range, the most versatile range with a high level of flexibility and market-leading electrical ratings. Engineered for total reliability, longer lifetime, and highest mechanical durability. Self-cleaning contacts ensure reliable operation without the need for maintenance, increasing uptime. A high degree of protection guarantees reliability in extreme environments. The innovative design simplifies the entire process, from selection to easy and quick, tool-free installation. The perfect solution for every application.

Ordering	
Minimum Order Quantity	10 piece
Customs Tariff Number	8536501999

Popular Downloads

Data Sheet, Technical Information	1SFC151007C02__
Instructions and Manuals	1SFC151011M0201
Marketing Video	1SFC151037V0001

Dimensions

Product Net Width	0.048 m
Product Net Height	0.03 m
Product Net Depth / Length	0.05 m
Product Net Weight	0.015 kg

Technical

Ambient Air Temperature	Operation -25 ... +70 °C Storage -40 ... +85 °C
Color	Black
Actuator Type	Short handle
Bezel Material	Plastic
Illumination	Non-illuminated
Function	Maintained
Sub-Function	3-position
Maintained Positions	A, B, C
Enclosure Type NEMA	Type1 Type12 Type13 Type3R Type4 Type4X

Environmental

Degree of Protection	Front IP66
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Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	2CMT2022-006479
RoHS Declaration	2CMT2022-006498
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006523
WEEE Category	Product Not in WEEE Scope

Certificates and Declarations

cULus Certificate	9AKK107046A9925
Declaration of	2CMT2015-005452

Conformity - CE	
Declaration of Conformity - UKCA	2CMT2020-006121
DNV GL Certificate	E-14107

Container Information

Package Level 1 Units	bag 1 piece
Package Level 1 Width	0.11 m
Package Level 1 Depth / Length	0.15 m
Package Level 1 Height	0.03 m
Package Level 1 Gross Weight	0.015 kg
Package Level 1 EAN	7320500374993

External Classifications and Standards

Object Classification Code	S
ETIM 6	EC000222 - Front element for selector switch
ETIM 7	EC000222 - Front element for selector switch
ETIM 8	EC000222 - Front element for selector switch
eClass	V11.0 : 27371213
UNSPSC	39122217
IDEA Granular Category Code (IGCC)	5215 >> Selector Switch Complete Assemblies
E-Number (Finland)	2312937

Categories

Low Voltage Products and Systems → Control Products → Pilot Devices → Modular Plastic Range → MSS Modular Selector Switches





PRODUCT-DETAILS

CR-M4LS

CR-M4LS Logical socket for 2c/o or 4c/o CR-M relay



General Information	
Extended Product Type	CR-M4LS
Product ID	1SVR405651R3100
EAN	4013614528682
Catalog Description	CR-M4LS Logical socket for 2c/o or 4c/o CR-M relay
Long Description	The CR-M4LS socket is from the CR-M (miniature) relay range. The logical socket is suitable for CR-M relays with 4 c/o (SPDT) output contacts. The socket has screw connection terminals. Pluggable function modules, holder and marker are available as accessories.

Ordering	
EAN	4013614528682
Minimum Order Quantity	10 piece
Customs Tariff Number	85366990

Popular Downloads	
Data Sheet, Technical	2CDC110004C0210_05

Information	
Instructions and Manuals	1SVC405650M9000
CAD Dimensional Drawing	2CDC001079B0201
EPLAN Data	9AAC132577_EPLAN

Dimensions

Product Net Width	27 mm
Product Net Height	61 mm
Product Net Depth / Length	82 mm
Product Net Weight	0.066 kg

Technical

Function	Accessory for interface relays CR-M
Sub-Function	Socket for miniature relays
Sub-Function 2	Logical socket for miniature relay 2 c/o or 4 c/o
Rated Operational Voltage	250 V
Terminal Type	Screw Terminals
Rated Operational Current AC-12 (I _e)	(230 V) 7 A
Rated Insulation Voltage (U _i)	3 V
Mounting Position	1
Standards	CAN/CSA C22.2 No.14 IEC/EN 63000 IEC/EN 61984 UL 508

Technical UL/CSA

Connecting Capacity Main Circuit UL/CSA	Flexible with Ferrule 2x 20-16 AWG Rigid 2x 20-14 AWG Stranded 2 x 20-14 AWG
Flammability According to UL94	V-0

Environmental

Ambient Air Temperature	Operation -40 ... +70 °C Storage -40 ... +70 °C
Maximum Operating Altitude Permissible	2000 m

Material Compliance

Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SVD981001-4501
RoHS Declaration	1SVD981001-4401

RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	2CMT2023-006536

Certificates and Declarations

CSA Certificate	CSA_262671_2785566
cURus Certificate	cURus508_E244328
Declaration of Conformity - CE	1SVD982020-0001
Declaration of Conformity - UKCA	1SVD982020-1000
EAC Certificate	EAC_RU_C-DE.ME77.B.00446-19

Container Information

Package Level 1 Units	box 10 piece
Package Level 1 Width	141 mm
Package Level 1 Depth / Length	78 mm
Package Level 1 Height	95 mm
Package Level 1 Gross Weight	0.662 kg
Package Level 1 EAN	4013614373770

External Classifications and Standards

Object Classification Code	K
ETIM 7	EC001456 - Relay socket
ETIM 8	EC001456 - Relay socket
ETIM 9	EC001456 - Relay socket
eClass	V11.0 : 27371603
UNSPSC	39122335
E-Number (Finland)	2712716
E-Number (Norway)	4187430
E-Number (Sweden)	4005375

Categories

Low Voltage Products and Systems → Control Products → Electronic Relays and Controls → Interface Relays and Optocouplers
Medium Voltage Products and Systems → Service → Spares and Consumables → Parts → All Spare Parts (Relays-SWG-CB)



CATALOG

System pro E control SR Basic

Low voltage small and medium-sized enclosures for automation and distribution



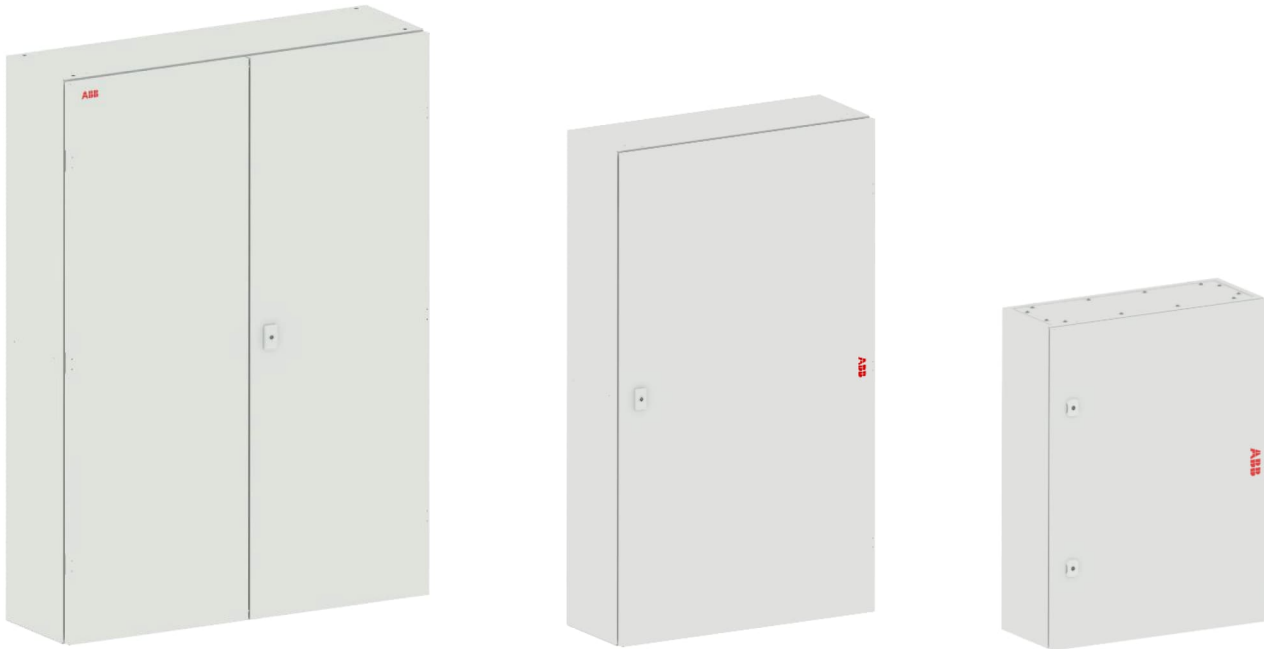
—
SR Basic, the innovative enclosure system offers maximum safety, functionality, flexibility, quick and simple assembly.

Table of contents

004	Introduction
004	Technical Details
005	General Characteristics
006	System Description
009	Ordering Details
014	Dimensional Details

Introduction

SR Basic the high robustness steel enclosures offer a large comprehensive dimensional range. The range consists of distribution boards for wall mounting and floor standing in eleven heights from 300 mm to 1800 mm, widths starting from 200 mm to 1200 mm and depths starting from 150 mm to 400 mm, ensuring the development of multiple solutions. A series of rational solutions developed to achieve a complete range of capabilities and functions to meet different installation requirements, whilst simplifying the work of the installer. It always conforms to (IEC EN 62208 and to IEC 61439-1-2), have a degree of protection IP65 for single door cabinets and IP 54 for double door cabinets (IEC EN 60529). The degree of protection against external mechanical impacts is IK10 (IEC 62262).



Technical Details

Standard Regulations	IEC 61439 1&2, IEC 62208	
Degree of Protection	IP 65 for Single Door Panels (IEC 60529)	
	IP 54 for Double Door Panels (IEC 60529)	
Degree of Mechanical Strength	IK 10 (IEC 62262)	
Coating	Powder Coating paint, structured finish in light grey RAL 7035	
Versions	Wall Mounted Single Door Floor Standing Double Door Floor Standing	
Material	Cold Rolled Steel Sheet 1.5 mm & 2 mm for enclosure Galvanized Steel Sheet 1.5 mm for mounting plate	
Cable Entry	Wall Mounted:	Removable gland plates top and bottom
	Floor Standing:	Removable gland plate at the bottom



General Characteristics

Flexibility

Ensure flexible mounting by easy removal of the mounting plate from the housing

Compact Design

SR Basic design ensures maximum cabling area within the enclosure

Durability

High durable painting finish

Reliability

SR Basic design complies with IEC 61439-1&2

Safety

SR Basic system guarantees the highest level of safety and functionality combined with high product quality

Easiness

SR Basic enclosures has been designed for easy handling and quick, simple installation



System Description

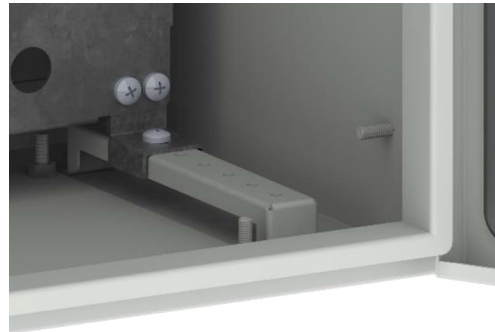
Safety comes first

SR Basic enclosures have been designed to ensure earth continuity protection against the consequences of faults within the assembly. The conductive parts can be simply interconnected together through the earthing studs welded in the assembly.



Manageable mounting

SR Basic offers simplified, flexible installation of mounting plates. The mounting plates have adjustable depths which can be set in 20 mm increments with the help of the perforated mounting rails.



Optimal accessibility and easy door installation

SR basic cabinets also offers impressive accessibility with their 120-degree door opening angle. The easy to dismount door hinges with exterior pivots enable optimum access during operation or maintenance.



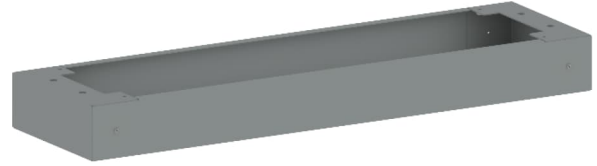
Multifunctional flexible door

- High IP65 degree of protection for single door cabinets thanks to Polyurethane door gasket around the perimeter.
- Reinforcements made up of two perforated stiffeners for improved stability and easy mounting of devices and accessories on door.
- Excellent flexibility door which is perfectly reversible and can be installed with right or left opening.
- Earthing screws welded on door to ensure earth continuity between the door and the body of the enclosure

Time-saving plinth installation and safe transport

The innovative plinth allows functional storage of entering cables and keeps your cables neat and tidy. It consists of four parts: the side parts, the front and back trim covers. Removing the front and back trim covers makes transport more secure via lift trucks.

- Innovative cabinet plinth for extremely easy installation
- Quick plinth installation from inside the cabinet
- Plinths can be stacked and combined.
- Plinth comes in a unique durable basalt grey RAL 7012 color



Quick and Easy Installation of Canopy

It is advisable to install a canopy to avoid water stagnation on the upper part of the enclosure.

- Protects the sealing plane of the door
- Guarantees correct water drainage
- No stagnation on the top
- It can be installed in all enclosure models



Massive Cable Entry Area

SR Basic offers great levels of flexibility and accessibility for installation and wiring. The usable area for cable entry is enormous which allows for an optimal feed-through of cables, thanks to the top and bottom gland plates. The gland plates achieve the high IP 65 degree of protection by the help of the foam seal around the perimeter of the gland plate.



Generous Usable Area

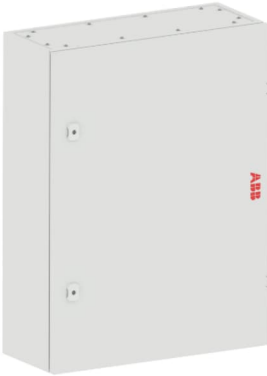
The enclosures are extra wide for applications requiring more interior space. The rubber seal between the doors ensures the IP 54 protection degree, which guarantees that components inside the enclosure are well protected. The enclosures are perfectly secured with a three-point lock to ensure safety.





Ordering Details 1.5 mm

Wall Mounting

	Dimensions (mm)			Ordering Details	
	Height H	Width W	Depth D	Type Code	Ordering Code
	300	200	150	SRB0302015	2TQA302015E0001
	300	300	150	SRB0303015	2TQA303015E0001
	400	300	150	SRB0403015	2TQA403015E0001
	400	300	200	SRB0403020	2TQA403020E0001
	500	400	150	SRB0504015	2TQA504015E0001
	500	400	200	SRB0504020	2TQA504020E0001
	600	400	150	SRB0604015	2TQA604015E0001
	600	400	200	SRB0604020	2TQA604020E0001
	600	400	250	SRB0604025	2TQA604025E0001
	600	600	250	SRB0606025	2TQA606025E0001
	700	500	200	SRB0705020	2TQA705020E0001
	700	500	250	SRB0705025	2TQA705025E0001
	800	600	200	SRB0806020	2TQA806020E0001
	800	600	250	SRB0806025	2TQA806025E0001
	800	600	300	SRB0806030	2TQA806030E0001
	800	800	300	SRB0808030	2TQA808030E0001
	1000	600	200	SRB1006020	2TQA106020E0001
	1000	600	250	SRB1006025	2TQA106025E0001
	1000	600	300	SRB1006030	2TQA106030E0001
	1000	800	200	SRB1008020	2TQA108020E0001
	1000	800	250	SRB1008025	2TQA108025E0001
	1000	800	300	SRB1008030	2TQA108030E0001

Single door floor standing

	Dimensions (mm)			Ordering Details	
	Height H	Width W	Depth D	Type Code	Ordering Code
	1200	600	250	SRB1206025	2TQA126025E0001
	1200	600	300	SRB1206030	2TQA126030E0001
	1200	800	250	SRB1208025	2TQA128025E0001
	1200	800	300	SRB1208030	2TQA128030E0001
	1400*	800	300	SRB1408030	2TQA148030E0001
	1400*	800	400	SRB1408040	2TQA148040E0001
	1600*	800	300	SRB1608030	2TQA168030E0001
	1600*	800	400	SRB1608040	2TQA168040E0001
	1800*	800	300	SRB1808030	2TQA188030E0001
	1800*	800	400	SRB1808040	2TQA188040E0001

* Enclosures with three-point lock

Trasmettitori di temperatura, umidità e CO₂
Temperature, humidity and CO₂ transmitters
Temperatur, Feuchtigkeit und CO₂ Messumformer
Transmetteurs de température, d'humidité et CO₂



TTA, TUA, TTUA, TCO2A, TCO2AU

IT ⚠ AVVERTENZE

Le operazioni di installazione e manutenzione devono essere eseguite da personale qualificato e in assenza di alimentazione dell'apparecchio e dei carichi esterni. AB Industrietechnik non risponderà di eventuali danni causati da inadeguata installazione e/o dalla manomissione o rimozione dei dispositivi di sicurezza.

Applicazione:

I trasmettitori della serie TTA, TUA, TTUA, TCO2A e TCO2AU consentono di rilevare la temperatura e/o l'umidità e/o il CO₂ in ambiente non industriale. Sono ideali per sistemi di riscaldamento, raffreddamento e trattamento d'aria in aree domestiche e commerciali. Sono disponibili modelli con uscite in tensione, resistenza e su protocollo Modbus RTU.

Caratteristiche tecniche:

Alimentazione:	24 V~ ± 10% / 15...35 V==
Uscite:	CO ₂ : 0...10 V== rif. 0...2000 ppm Temp.: 0...10 V== rif. 0...50°C (32...122°F) uscita resistiva Umidità: 0...10 V== rif. 0...100 % u.r. Modbus RTU
Sensore temperatura:	vds tabella
Sensore umidità:	precisione ± 3% u.r. (20°C)
Sensore CO ₂ :	senore NDIR precisione (25°C) ±(50ppm +2% della misura) campionamento CO ₂ 15 s
Temperatura ambiente:	0..50°C (32...122°F)
Umidità ambiente:	10..90%u.r. senza condensa
Limiti di tensione:	min. 0 V== , max. 11.5 V==
Display:	4 digit con visualizzazione unità di misura a seconda dei modelli (°C, °F, ppm, %r.h.)
Potenza media:	< 1 W
Potenza trasformatore:	2 VA (5 VA per versione CO ₂)
Contenitore:	85 x 100 x 30.5 mm
Classe di protezione:	IP30
Norme conformità CE:	EN 60730-1/A16:2007, EN 61000-6-1:2007, EN 61000-6-3:2007

EN ⚠ WARNING

Each single operation done on the unit, either installation or maintenance, must be done without main supply on the unit and external loads. Such operations are permitted only by skilled workers. AB Industrietechnik is not responsible for possible damages caused by an inadequate installation and/or by removed or exchanged security devices.

Application:

The transmitters TTA, TUA, TTUA, TCO2A and TCO2AU can measure a value of temperature and/or humidity and/or CO₂ in not industrial places. They are designed for heating, cooling and air handling in domestic areas and commercial buildings. Units with voltage output, resistive output or with Modbus RTU output are available.

Technical features:

Power supply:	24 V~ ± 10% / 15...35 V==
Outputs:	CO ₂ : 0...10 V== ref. to 0...2000 ppm Temp.: 0...10 V== ref. to 0...50°C (32...122°F), resistive output Humidity: 0...10 V== ref. to 0...100 % r.h. Modbus RTU
Temp. sensor:	see schedule
Humidity sensor:	precision ± 3% r.h. (20°C)
CO ₂ sensor:	sensor NDIR precision (25°C) ±(50ppm +2% of measure) sampling CO ₂ 15 s
Room temperature:	0..50°C (32...122°F)
Room humidity:	10..90%r.h. with no condense
Voltage limit:	min. 0 V== , max. 11.5 V==
Display:	4 digit with unit based on model (°C, °F, ppm, %r.h.)
Average power:	< 1 W
Transformer power:	2 VA (5 VA for CO ₂ version)
Casing:	85 x 100 x 30.5 mm
Protection class:	IP30
CE standards:	EN 60730-1/A16:2007, EN 61000-6-1:2007, EN 61000-6-3:2007

DE ⚠ ACHTUNG

Die Installation darf nur von qualifizierten Fachleuten durchgeführt werden. AB Industrietechnik übernimmt keine Haftung für Schäden, die durch unsachgemäße Verwendung, falsche Installation oder durch Entfernung von Sicherheitsvorrichtungen verursachten werden.

Anwendung:

Die Übertragungsgeräte der Serie TTA, TUA, TTUA, TCO2A und TCO2AU ermöglichen das Messen von Temperatur und/oder Feuchtigkeit und/oder CO₂ in nichtbetrieblichen Räumen. Sie sind ideal für Heiz-, Kühl- und Luftaufbereitungssystemen im Wohn- und Geschäftsbereichen. Es sind Modelle mit Spannung, Widerstand sowie Modbus Ausgänge verfügbar.

Technische Eigenschaften:

Einspeisung:	24 V~ ± 10% / 15...35 V==
Ausgänge:	CO ₂ : 0...10 V== ent. 0...2000 ppm Temp.: 0...10 V== ent. 0...50°C (32...122°F), Widerstandsausgang Feuchtigkeit: 0...10 V== ent. 0...100 % r.F. Modbus RTU
Temperatur Sensor:	siehe Tabelle
Feuchtigkeit Sensor:	Genauigkeit ± 3% r.F. (20°C)
CO ₂ Sensor:	NDIR Sensor Genauigkeit (25°C) ±(50ppm +2% vom Messwert) Messintervall CO ₂ 15 s 0..50°C (32...122°F)
Raumtemperatur:	10..90%r.F. ohne Kondensat
Feuchtigkeit:	min. 0 V== , max. 11.5 V==
Spannungsgrenzen:	4 digit mit Messeinheit abhängig vom Modell (°C, °F, ppm, %r.h.)
Display:	< 1 W
Entnommene Leistung:	2 VA (5 VA für CO ₂ Version)
Trafoleistung:	85 x 100 x 30.5 mm
Gehäuse:	IP30
Schutzklasse:	IP30
EG Konformitätsnormen:	EN 60730-1/A16:2007, EN 61000-6-1:2007, EN 61000-6-3:2007

FR ⚠ ATTENTION

Pendant les opérations de montage et de maintenance mettre l'appareil ainsi que les charges connectées à celui-ci hors tension. Toutes ces opérations doivent être effectuées par un technicien qualifié. AB Industrietechnik ne pourra être tenu pour responsable des dommages causés suite à une mauvaise installation et/ou une maintenance manipulant ou enlevant les dispositifs de sécurité.

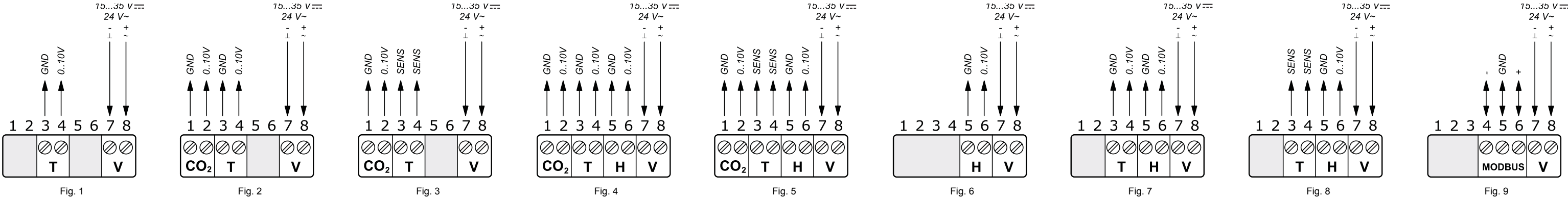
Applications:

Les transmetteurs de la série TTA, TUA, TTUA, TCO2A ou TCO2AU permettent de relever la température et/ou l'humidité et/ou CO₂ en ambiance non industrielle. Ils sont idéals pour les applications de chauffage, de refroidissement, de traitement d'air dans les endroits résidentiels et commerciaux. Les modèles avec sortie en tension, sortie résistive ou Modbus RTU sont disponibles.

Caractéristiques techniques:

Alimentation:	24 V~ ± 10% / 15...35 V==
Sorties:	CO ₂ : 0...10 V== rapporté à 0...2000 ppm Temp.: 0...10 V== rapporté à 0...50°C (32...122°F), sorties résistives Humidité: 0...10 V== rapporté à 0...100 % h.r. Modbus RTU
Senseur de temp.:	voir tableau
Senseur d'humidité:	précision ± 3% h.r. (20°C)
Senseur CO ₂ :	senneur NDIR précision (25°C) ±(50ppm +2% de la mesure) échantillonnage CO ₂ 15 s 0..50°C (32...122°F)
Temp. d'ambiance:	10..90%h.r. sans condensation
Humidité d'ambiance:	min. 0 V== , max. 11.5 V==
Limites de tension:	4 digit avec visualisation de l'unité de mesure selon les modèles (°C, °F, ppm, %r.h.)
Display:	< 1 W
Puissance moyenne:	2 VA (5 VA pour la version de CO ₂)
Puissance du transformateur:	85 x 100 x 30.5 mm
Boîtier:	IP30
Classe de protection:	IP30
Normes CE:	EN 60730-1/A16:2007, EN 61000-6-1:2007, EN 61000-6-3:2007

Schema elettrico / Wiring diagram / Elektrische Schaltbilder / Schema électrique:



IT
Fig 1..9: Schemi di collegamento riferiti ai vari modelli, vedasi tabella pagina seguente (colonna "schema elet.").
SENS = sensore passivo (vedi tabella)

Per i modelli con uscite 0..10 V (Fig. da 1 a 8):
RL > 10000 ohm con RL resistenza di carico applicata in uscita

EN
Fig 1..9: Wiring diagrams corresponding to the different models, see schedule on the following page (column called "Elect. wirings").
SENS = passive sensor (see schedule)

For versions with 0..10 V outputs (Fig. from 1 to 8):
RL > 10000 ohm with RL: load resistance applied on output

DE
Abb. 1..9: Auf die verschiedenen Modelle bezogene Schaltpläne, siehe Tabelle auf der nächsten Seite (siehe Spalte "Anschlussbild").
SENS = Widerstand Fühler (siehe Tabelle)

Für modelle mit ausgänge 0..10 V (Fig. von 1 bis 8):
RL > 10000 ohm mit RL Ausgangswiderstand verbinden

FR
Fig 1..9: Schémas de raccordement correspondants aux différents modèles, voir tableau page suivante (colonne intitulée "Schémas élec.").
SENS = senseur passif (voir tableau)

Pour les modèles avec sorties 0..10 V (Fig. de 1 à 8):
RL > 10000 ohm avec RL résistance de charge appliquée en sortie

Tipo Type Typ Type	Descrizione Description Beschreibung Description	Display	Uscite Outputs Ausgänge Sorties	Precisione Accuracy Genauigkeit Précision	Schema elet. Elect. wirings Anschlussbild Schémas élec.
TTA	T	-	0...10 V	± 0,4	Fig.1
TTA-D	T	✓	0...10 V	± 0,4	Fig.1
TTA-M	T	-	Modbus	± 0,2	Fig.9
TTA-D-M	T	✓	Modbus	± 0,2	Fig.9
TCO2A	CO ₂ + T	-	0...10 V + 0...10 V	± 0,4	Fig.2
TCO2A-PT100	CO ₂ + PT100, 100 Ohm/0°C	-	0...10 V + ohm	± 0,3	Fig.3
TCO2A-PT1000	CO ₂ + PT1000, 1000 Ohm/0°C	-	0...10 V + ohm	± 0,3	Fig.3
TCO2A-NTC1.8	CO ₂ + NTC 1.8, 1800 Ohm/25°C	-	0...10 V + ohm	± 0,5	Fig.3
TCO2A-NTC2.2	CO ₂ + NTC 2.2k3A1, 2252 Ohm/25°C	-	0...10 V + ohm	± 0,2	Fig.3
TCO2A-NTC10-01	CO ₂ + NTC 10k3A1, 10kOhm/25°C	-	0...10 V + ohm	± 0,2	Fig.3
TCO2A-NTC10-02	CO ₂ + NTC 10k, 10kOhm/25°C	-	0...10 V + ohm	± 0,3	Fig.3
TCO2A-NTC10-03	CO ₂ + NTC 10k4A1, 10kOhm/25°C	-	0...10 V + ohm	± 0,25	Fig.3
TCO2A-NTC20	CO ₂ + NTC 20k6A1, 20kOhm/25°C	-	0...10 V + ohm	± 0,2	Fig.3
TCO2A-NI1000-01	CO ₂ + Ni1000, 1000 Ohm/0°C	-	0...10 V + ohm	± 0,5	Fig.3
TCO2A-NI1000-02	CO ₂ + Ni1000, 1000 Ohm/0°C	-	0...10 V + ohm	± 0,5	Fig.3
TCO2A-D	CO ₂ + T	✓	0...10 V + 0...10 V	± 0,4	Fig.2
TCO2A-D-PT100	CO ₂ + PT100, 100 Ohm/0°C	✓	0...10 V + ohm	± 0,3	Fig.3
TCO2A-D-PT1000	CO ₂ + PT1000, 1000 Ohm/0°C	✓	0...10 V + ohm	± 0,3	Fig.3
TCO2A-D-NTC1.8	CO ₂ + NTC 1.8, 1800 Ohm/25°C	✓	0...10 V + ohm	± 0,5	Fig.3
TCO2A-D-NTC2.2	CO ₂ + NTC 2.2k3A1, 2252 Ohm/25°C	✓	0...10 V + ohm	± 0,2	Fig.3
TCO2A-D-NTC10-01	CO ₂ + NTC 10k3A1, 10kOhm/25°C	✓	0...10 V + ohm	± 0,2	Fig.3
TCO2A-D-NTC10-02	CO ₂ + NTC 10k, 10kOhm/25°C	✓	0...10 V + ohm	± 0,3	Fig.3
TCO2A-D-NTC10-03	CO ₂ + NTC 10k4A1, 10kOhm/25°C	✓	0...10 V + ohm	± 0,25	Fig.3
TCO2A-D-NTC20	CO ₂ + NTC 20k6A1, 20kOhm/25°C	✓	0...10 V + ohm	± 0,2	Fig.3
TCO2A-D-NI1000-01	CO ₂ + Ni1000, 1000 Ohm/0°C	✓	0...10 V + ohm	± 0,5	Fig.3
TCO2A-D-NI1000-02	CO ₂ + Ni1000, 1000 Ohm/0°C	✓	0...10 V + ohm	± 0,5	Fig.3
TCO2A-M	CO ₂ + T	-	Modbus	± 0,2	Fig.9
TCO2A-D-M	CO ₂ + T	✓	Modbus	± 0,2	Fig.9
TCO2AU	CO ₂ , + H + T	-	0...10 V + 0...10 V + 0...10 V	± 0,4	Fig.4
TCO2AU-PT100	CO ₂ , + H + PT100, 100 Ohm/0°C	-	0...10 V + 0...10 V + ohm	± 0,3	Fig.5
TCO2AU-PT1000	CO ₂ , + H + PT1000, 1000 Ohm/0°C	-	0...10 V + 0...10 V + ohm	± 0,3	Fig.5
TCO2AU-NTC1.8	CO ₂ , + H + NTC 1.8, 1800 Ohm/25°C	-	0...10 V + 0...10 V + ohm	± 0,5	Fig.5
TCO2AU-NTC2.2	CO ₂ , + H + NTC 2.2k3A1, 2252 Ohm/25°C	-	0...10 V + 0...10 V + ohm	± 0,2	Fig.5
TCO2AU-NTC10-01	CO ₂ , + H + NTC 10k3A1, 10kOhm/25°C	-	0...10 V + 0...10 V + ohm	± 0,2	Fig.5
TCO2AU-NTC10-02	CO ₂ , + H + NTC 10k, 10kOhm/25°C	-	0...10 V + 0...10 V + ohm	± 0,3	Fig.5
TCO2AU-NTC10-03	CO ₂ , + H + NTC 10k4A1, 10kOhm/25°C	-	0...10 V + 0...10 V + ohm	± 0,25	Fig.5
TCO2AU-NTC20	CO ₂ , + H + NTC 20k6A1, 20kOhm/25°C	-	0...10 V + 0...10 V + ohm	± 0,2	Fig.5
TCO2AU-NI1000-01	CO ₂ , + H + Ni1000, 1000 Ohm/0°C	-	0...10 V + 0...10 V + ohm	± 0,5	Fig.5
TCO2AU-NI1000-02	CO ₂ , + H + Ni1000, 1000 Ohm/0°C	-	0...10 V + 0...10 V + ohm	± 0,5	Fig.5
TCO2AU-D	CO ₂ , + H + T	✓	0...10 V + 0...10 V + 0...10 V	± 0,4	Fig.4
TCO2AU-D-PT100	CO ₂ , + H + PT100, 100 Ohm/0°C	✓	0...10 V + 0...10 V + ohm	± 0,3	Fig.5
TCO2AU-D-PT1000	CO ₂ , + H + PT1000, 1000 Ohm/0°C	✓	0...10 V + 0...10 V + ohm	± 0,3	Fig.5

Tipo Type Typ Type	Descrizione Description Beschreibung Description	Display	Uscite Outputs Ausgänge Sorties	Precisione Accuracy Genauigkeit Précision	Schema elet. Elect. wirings Anschlussbild Schémas élec.
TCO2AU-D-NTC1.8	CO ₂ , + H + NTC 1.8, 1800 Ohm/25°C	✓	0...10 V + 0...10 V + ohm	± 0,5	Fig.5
TCO2AU-D-NTC2.2	CO ₂ , + H + NTC 2.2k3A1, 2252 Ohm/25°C	✓	0...10 V + 0...10 V + ohm	± 0,2	Fig.5
TCO2AU-D-NTC10-01	CO ₂ , + H + NTC 10k3A1, 10kOhm/25°C	✓	0...10 V + 0...10 V + ohm	± 0,2	Fig.5
TCO2AU-D-NTC10-02	CO ₂ , + H + NTC 10k, 10kOhm/25°C	✓	0...10 V + 0...10 V + ohm	± 0,3	Fig.5
TCO2AU-D-NTC10-03	CO ₂ , + H + NTC 10k4A1, 10kOhm/25°C	✓	0...10 V + 0...10 V + ohm	± 0,25	Fig.5
TCO2AU-D-NTC20	CO ₂ , + H + NTC 20k6A1, 20kOhm/25°C	✓	0...10 V + 0...10 V + ohm	± 0,2	Fig.5
TCO2AU-D-NI1000-01	CO ₂ , + H + Ni1000, 1000 Ohm/0°C	✓	0...10 V + 0...10 V + ohm	± 0,5	Fig.5
TCO2AU-D-NI1000-02	CO ₂ , + H + Ni1000, 1000 Ohm/0°C	✓	0...10 V + 0...10 V + ohm	± 0,5	Fig.5
TCO2AU-M	CO ₂ , + H + T	-	Modbus	± 0,2	Fig.9
TCO2AU-D-M	CO ₂ , + H + T	✓	Modbus	± 0,2	Fig.9
TUA	H	-	0...10 V	-	Fig.6
TUA-D	H	✓	0...10 V	-	Fig.6
TUA-M	H	-	Modbus	-	Fig.9
TUA-D-M	H	✓	Modbus	-	Fig.9
TTUA	H + T	-	0...10 V + 0...10 V	± 0,4	Fig.7
TTUA-PT100	H + PT100, 100 Ohm/0°C	-	0...10 V + ohm	± 0,3	Fig.8
TTUA-PT1000	H + PT1000, 1000 Ohm/0°C	-	0...10 V + ohm	± 0,3	Fig.8
TTUA-NTC1.8	H + NTC 1.8, 1800 Ohm/25°C	-	0...10 V + ohm	± 0,5	Fig.8
TTUA-NTC2.2	H + NTC 2.2k3A1, 2252 Ohm/25°C	-	0...10 V + ohm	± 0,2	Fig.8
TTUA-NTC10-01	H + NTC 10k3A1, 10kOhm/25°C	-	0...10 V + ohm	± 0,2	Fig.8
TTUA-NTC10-02	H + NTC 10k, 10kOhm/25°C	-	0...10 V + ohm	± 0,3	Fig.8
TTUA-NTC10-03	H + NTC 10k4A1, 10kOhm/25°C	-	0...10 V + ohm	± 0,25	Fig.8
TTUA-NTC20	H + NTC 20k6A1, 20kOhm/25°C	-	0...10 V + ohm	± 0,2	Fig.8
TTUA-NI1000-01	H + Ni1000, 1000 Ohm/0°C	-	0...10 V + ohm	± 0,5	Fig.8
TTUA-NI1000-02	H + Ni1000, 1000 Ohm/0°C	-	0...10 V + ohm	± 0,5	Fig.8
TTUA-D	H + T	✓	0...10 V + 0...10 V	± 0,4	Fig.7
TTUA-D-PT100	H + PT100, 100 Ohm/0°C	✓	0...10 V + ohm	± 0,3	Fig.8
TTUA-D-PT1000	H + PT1000, 1000 Ohm/0°C	✓	0...10 V + ohm	± 0,3	Fig.8
TTUA-D-NTC1.8	H + NTC 1.8, 1800 Ohm/25°C	✓	0...10 V + ohm	± 0,5	Fig.8
TTUA-D-NTC2.2	H + NTC 2.2k3A1, 2252 Ohm/25°C	✓	0...10 V + ohm	± 0,2	Fig.8
TTUA-D-NTC10-01	H + NTC 10k3A1, 10kOhm/25°C	✓	0...10 V + ohm	± 0,2	Fig.8
TTUA-D-NTC10-02	H + NTC 10k, 10kOhm/25°C	✓	0...10 V + ohm	± 0,3	Fig.8
TTUA-D-NTC10-03	H + NTC 10k4A1, 10kOhm/25°C	✓	0...10 V + ohm	± 0,25	Fig.8
TTUA-D-NTC20	H + NTC 20k6A1, 20kOhm/25°C	✓	0...10 V + ohm	± 0,2	Fig.8
TTUA-D-NI1000-01	H + Ni1000, 1000 Ohm/0°C	✓	0...10 V + ohm	± 0,5	Fig.8
TTUA-D-NI1000-02	H + Ni1000, 1000 Ohm/0°C	✓	0...10 V + ohm	± 0,5	Fig.8
TTUA-M	H + T	-	Modbus	± 0,2	Fig.9
TTUA-D-M	H + T	✓	Modbus	± 0,2	Fig.9

Versioni con uscita Modbus

Il trasmettitore implementa un protocollo di comunicazione di tipo Modbus Slave e può comunicare a distanza con un'unità Modbus Master. Tutti i parametri e variabili sono accessibili come holding register e le operazioni di lettura e scrittura devono essere fatte con opportuni function code (FC=03, 06, 16).Scegliere opportunamente il timeout tra una lettura e l'altra, considerando la baudrate. Il timeout minimo di un secondo è sufficiente per le baudrate 38400, 19200 e 9600. Per le altre baudrate aumentare il timeout (2 s per baudrate 4800).

Impostazioni da fabbrica:
Baud rate = 19200 bit/s;
Parità = pari,
Indirizzo apparecchio = 1.

Per modificare questi valori, vedere tabelle Baud rate, Parità e Indirizzo. La linea RS485-MODBUS ha un bus principale lungo il quale sono connessi direttamente gli apparecchi (max 32 apparecchi). Usare cavi con una coppia intrecciata + 1 filo per la massa + schermo. Usare la coppia intrecciata per collegare A+ e B- ed il filo singolo per il GND che deve essere collegato ad ogni apparecchio. Collegare lo schermo alla terra su un punto unico del cavo possibilmente vicino al Master. Il tipo di cavo deve rispettare le caratteristiche previste per la trasmissione di dati su protocollo MODBUS RS485. Le due estremità del bus devono essere collegate con una resistenza di terminazione da 120 ohm. Per inserire la resistenza da 120 ohm sul trasmettitore (JP3), vedere Fig. 10. La lunghezza massima del bus dipende dalla baud rate e dal cavo. Per una baud rate di 9600, la lunghezza massima del cavo può raggiungere 1000 m con un cavo AVG26. Le derivazioni qual'ora dovessero essere utilizzate devono essere corte, non devono oltrepassare 20 m. Con un multi-port tap usato per n derivazioni, ogni derivazione deve avere una lunghezza massima di 40 m diviso per n. Per aumentare il numero di apparecchi collegati alla linea o per aumentare la lunghezza dei cavi, è necessario collegare un ripetitore di segnale. Aggiungere un ripetitore di segnale per ogni gruppo di 32 apparecchi collegati.

Versions with Modbus output

The regulator implements the Modbus Slave protocol and can communicate remotely with a Modbus Master unit. All parameters and variables are accessible as holding registers and R/W operations are implemented with function codes (FC=03, 06, 16). Select a suitable timeout between readings, in relation to the baudrate. A minimum timeout of one second is suitable for 19200 and 9600 baud. For other baudrates, increase the timeout value (2 s for 4800 baud).

Factory settings:
Baud rate = 19200 bit/s;
Parity = even,
Address of unit = 1.

To modify these values, see schedules Baud rate, Parity and Address. The RS485-MODBUS line has a principal bus to which the various devices are connected (max 32 devices). Use cables with a braided pair + 1 ground wire + shield. Use the braided pair to connect A+ and B- and the single wire for GND which must be connected to each device. Connect the shield to ground at a single point, preferably near the master. The cable must be of the MODBUS RS485 data transmission type. The ends of the cable must be connected with a 120 ohm termination resistance. To fit the 120 ohm to the transmitter (JP3), see Fig. 10. The maximum length of the bus depends on the baudrate and the cable itself. For a baudrate of 9600, the cable (AVG26 type) can be up to 1000 m long. Any branch lines must be short, not more than 20 m long. If you use a multi-port tap for n branches, each branch can be up to 40 m divided by n. To increase the number of devices on the line or increase the length of the cables, you must install a signal repeater. Add a signal repeater for every group of 32 connected devices.

Versionen mit Modbus Ausgang

Der Regler umfasst ein Kommunikationsprotokoll vom Typ Slave-Modbus und kann auf Distanz mit einer Master-Modbus-Einheit kommunizieren. Alle Parameter und Variablen sind als Holding-Register zugänglich und die Lese- und Schreibvorgänge müssen mit passenden function codes (FC=03, 06, 16) ausgeführt werden. Die Zeitüberschreitung zwischen einem Lesevorgang und dem nächsten günstig wählen und die Baudrate beachten. Die Mindest-Baudrate von einer Sekunde ist ausreichend für die Baudraten 19200 und 9600. Für die anderen Baudraten die Zeitüberschreitung erhöhen (2 Sek. für Baudrate 4800).

Werkseinstellungen:
Baud rate = 19200 bit/s;
Parität = gerade,
Geräteadresse = 1.

Um diese Werte zu ändern, siehe Tabellen Baudrate, Parität und Adresse. Die Linie RS485-MODBUS hat einen Hauptbus, an den die Geräte (max. 32 Apparate) direkt angeschlossen sind. Kabel mit Twisted-Pair-Kabel + 1 Erdungskabel + Bildschirm verwenden. Twisted-Pair-Kabel verwenden, um A+ und B- anzuschließen und ein einzelnes Kabel für GND, die mit jedem Gerät verbunden werden muss. Den Bildschirm an der Erdung an einem einzigen Punkt des Kabels, möglichst nah am Master, anschließen. Der Kabeltyp muss die von der Datenübertragung über MODBUS-RS485-Protokoll vorgesehenen Anforderungen erfüllen. Die beiden Busenden müssen an einen Abschlusswiderstand von 120 Ohm angeschlossen werden. Um den Widerstand von 120 Ohm auf dem Messumformer (JP3) einzufügen, siehe Fig. 10. Die maximale Länge des Bus hängt von der Baudrate und vom Kabel ab. Für eine Baudrate von 9600, kann die maximale Länge des Kabels 1000 m mit einem AVG26-Kabel betragen. Die eventuell verwendeten Abzweigungen müssen kurz sein und dürfen 20 m nicht überschreiten. Mit einem Multi-Port-Tap für n Abzweigungen, darf jede Abzweigung eine maximale Länge von 40 m mal n haben. Um die Anzahl der an die Leitung angeschlossenen Apparate zu erhöhen oder um die Länge der Kabel zu erhöhen, muss ein Signalverstärker angeschlossen werden. Fügen Sie einen Signalverstärker für jede Gruppe von 32 angeschlossene Apparate.

Versions avec sortie Modbus

Le régulateur est doté d'un protocole de communication de type Modbus Esclave et peut communiquer à distance avec une unité Modbus Master. Tous les paramètres et toutes les variables sont accessibles comme holding register et les opérations de lecture (R) et d'écriture (W) doivent être réalisées à l'aide de codes de fonction adéquats (FC=03, 06, 16). Choisir opportunément le délai entre une lecture et l'autre, en tenant compte du taux de transfert. Le délai minimal d'une seconde est suffisant pour les taux de transfert de 19200 et 9600. Pour les autres taux de transfert, il faut augmenter le délai (2 s pour un taux de transfert de 4800).

Réglage d'usine:
Baud rate = 19200 bit/s;
Parité = paire,
Adresse transmetteur = 1.

Pour modifier ces valeurs, voir tableaux Baud rate, Parité et Adresse. La ligne RS485-MODBUS a un bus principal le long duquel sont connectés directement les appareils (maxi 32 appareils). Utiliser des câbles avec une paire tressée + 1 fil pour la masse + blindage. Utiliser la paire tressée pour connecter A+ et B- et le fil seul pour la masse (GND) qui doit être connectée à chaque appareil. Connecter le blindage à la terre sur un point unique du câble si possible près du Master. Le type de câble doit respecter les caractéristiques prévues pour la transmission de données sur protocole MODBUS RS485. Les deux extrémités du bus doivent être connectées sur une résistance de terminaison de 120 ohms. Pour insérer la résistance de 120 ohms sur le transmetteur (JP3), voir Fig. 10. La longueur maximale du bus dépend du taux de transfert et du câble. Pour un taux de transfert de 9600, la longueur maximale du câble peut atteindre 1000 m avec un câble AVG26. Au cas où des dérivations devraient être utilisées, elles devront être courtes et ne pas dépasser 20 m. Avec une prise multi-port utilisée pour n dérivations, chaque dérivation doit avoir une longueur maximale de 40 m divisée par n. Pour augmenter le nombre d'appareils connectés à la ligne ou pour augmenter la longueur des câbles, il est nécessaire de connecter un répéteur de signal. Ajouter un répéteur de signal pour chaque groupe de 32 appareils connectés.

Indirizzo Address Adresse Adresse	Descrizione Description Beschreibung Description	Nota Note Anmerkung Note	Min	Max	R/W
4000	Umidità / Humidity / Feuchtigkeit / Humidité	*	0	1000	R
4001	Temperatura / Temperature / Temperatur / Température	*	0°C [320°F]	500°C [1220°F]	R
4002	CO ₂	*	0	2000	R
4024	Correzione Umidità / Humidity correction / Feuchtigkeit / Correction humidité	**	-100	+100	R/W
4025	Correzione Temperatura / Temperature correction / Temperatur / Correction température	**	-90	+90	R/W
4026	Correzione CO ₂ / CO ₂ correction / CO ₂ Korrektur / Correction CO ₂	**	-200	+200	R/W

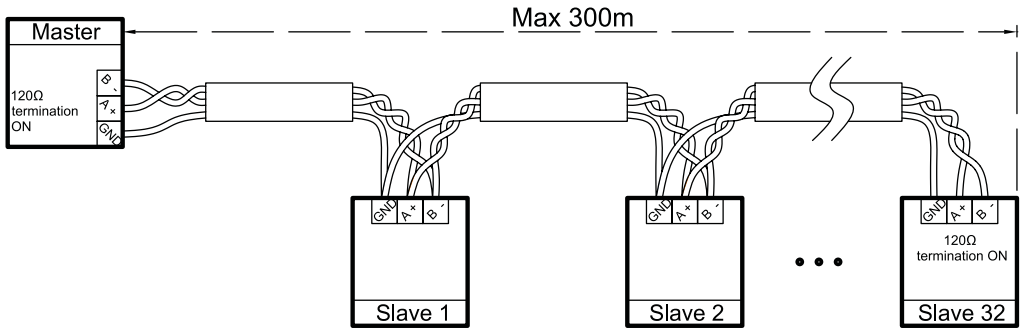
Nota *: I valori di temperatura e umidità sono visualizzati moltiplicati per 10 (esempio: valore letto sul trasmettitore = 21.3°C → valore letto in Modbus = 213).
Note *: the visualised value for temperature and humidity are multiplied per 10 (example: value read by transmitter = 21.3°C → value read by Modbus = 213)
Anmerkung *: der Angezeigte Wert entspricht dem Voltwert multipliziert mit 10 (Beispiel: gelesene Wert des Trasmitters = 21.3°C → gelesene Wert im Modbus = 213)
Note *: la valeur visualisée pour la température et l'humidité correspond à la valeur indiquée multipliée par 10 (exemple: valeur lue par le transmetteur = 21.3°C → valeur lue par le Modbus = 213)

Nota **: Il parametro è sommato al valore rilevato dal sensore
Note **: The parameter is added to the sensor value
Anmerkung **: Der Parameter wird auf den aufnehmende Sensor Wert addiert
Note **: Le paramètre est additionnée à la valeur du senseur

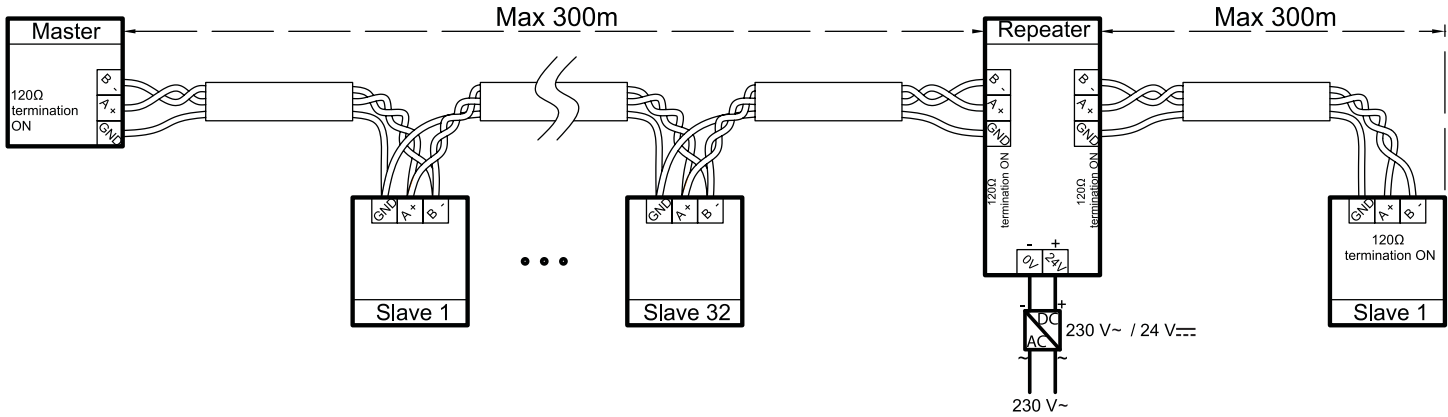
In caso di sonda guasta, la temperatura visualizzata corrisponde a quella indicata in tabella:
If sensor is broken, the temperature visualized corresponds to values indicated on the table below:
Im Falle das die Sonde defekt ist, entspricht die angezeigte Temperatur der nachstehenden Tabelle:
Au cas où la sonde est défectueuse, la température visualisée correspond à celle qui est indiquée dans le tableau ci-dessous:

Sonda rotta Broken sensor Fehlerhafte Sonde Sonde en erreur	Valore letto Modbus Value read Modbus Gelesener Wert Modbus Valeur lue Modbus	Valore corrispondente Correspondent value Entsprechender Wert Valeur correspondante
Umidità / Humidity / Feuchtigkeit / Humidité	0	0
Temperatura / Temperature / Temperatur / Température	-20 °C [284 °F]	-2.0°C [28.4 °F]
CO ₂	0	0

Collegamento senza ripetitore / Connection without repeater / Anschluss ohne Verstärker / Connexion sans répéteur:



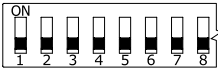
Collegamento con ripetitore / Connection with repeater / Anschluss mit Verstärker / Connexion avec répéteur:

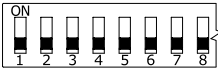


Baud rate		
	11	12
38400	ON	ON
19200	OFF	OFF
9600	ON	OFF
4800	OFF	ON

Parità Parity Parität Parité		
	9	10
Pari / Even / Gerade / Paire (1 stop bit)	OFF	OFF
Nessuna / None / Keine / Sans (2 stop bit)	ON	OFF
Dispari / Odd / Ungerade / Impaire (1 stop bit)	OFF	ON
Nessuna / None / Keine / Sans (2 stop bit)	ON	ON

Indirizzo Address Adresse Adresse								
	1	2	3	4	5	6	7	8
1	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
2	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF
3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF
5	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF
6	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF
7	ON	ON	ON	OFF	OFF	OFF	OFF	OFF
8	OFF	OFF	OFF	ON	OFF	OFF	OFF	OFF
9	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
10	OFF	ON	OFF	ON	OFF	OFF	OFF	OFF
11	ON	ON	OFF	ON	OFF	OFF	OFF	OFF
12	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF
13	ON	OFF	ON	ON	OFF	OFF	OFF	OFF
14	OFF	ON	ON	ON	OFF	OFF	OFF	OFF
15	ON	ON	ON	ON	OFF	OFF	OFF	OFF
16	OFF	OFF	OFF	OFF	ON	OFF	OFF	OFF
17	ON	OFF	OFF	OFF	ON	OFF	OFF	OFF
18	OFF	ON	OFF	OFF	ON	OFF	OFF	OFF
19	ON	ON	OFF	OFF	ON	OFF	OFF	OFF
20	OFF	OFF	ON	OFF	ON	OFF	OFF	OFF
21	ON	OFF	ON	OFF	ON	OFF	OFF	OFF
22	OFF	ON	ON	OFF	ON	OFF	OFF	OFF
23	ON	ON	ON	OFF	ON	OFF	OFF	OFF
24	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF
25	ON	OFF	OFF	ON	ON	OFF	OFF	OFF
26	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
27	ON	ON	OFF	ON	ON	OFF	OFF	OFF
28	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
29	ON	OFF	ON	ON	ON	OFF	OFF	OFF
30	OFF	ON	ON	ON	ON	OFF	OFF	OFF
31	ON	ON	ON	ON	ON	OFF	OFF	OFF
32	OFF	OFF	OFF	OFF	OFF	ON	OFF	OFF
33	ON	OFF	OFF	OFF	OFF	ON	OFF	OFF
34	OFF	ON	OFF	OFF	OFF	ON	OFF	OFF
35	ON	ON	OFF	OFF	OFF	ON	OFF	OFF
36	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF
37	ON	OFF	ON	OFF	OFF	ON	OFF	OFF
38	OFF	ON	ON	OFF	OFF	ON	OFF	OFF

Indirizzo Address Adresse Adresse								
	1	2	3	4	5	6	7	8
39	ON	ON	ON	OFF	OFF	ON	OFF	OFF
40	OFF	OFF	OFF	ON	OFF	ON	OFF	OFF
41	ON	OFF	OFF	ON	OFF	ON	OFF	OFF
42	OFF	ON	OFF	ON	OFF	ON	OFF	OFF
43	ON	ON	OFF	ON	OFF	ON	OFF	OFF
44	OFF	OFF	ON	ON	OFF	ON	OFF	OFF
45	ON	OFF	ON	ON	OFF	ON	OFF	OFF
46	OFF	ON	ON	ON	OFF	ON	OFF	OFF
47	ON	ON	ON	ON	OFF	ON	OFF	OFF
48	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF
49	ON	OFF	OFF	OFF	ON	ON	OFF	OFF
50	OFF	ON	OFF	OFF	ON	ON	OFF	OFF
51	ON	ON	OFF	OFF	ON	ON	OFF	OFF
52	OFF	OFF	ON	OFF	ON	ON	OFF	OFF
53	ON	OFF	ON	OFF	ON	ON	OFF	OFF
54	OFF	ON	ON	OFF	ON	ON	OFF	OFF
55	ON	ON	ON	OFF	ON	ON	OFF	OFF
56	OFF	OFF	OFF	ON	ON	ON	OFF	OFF
57	ON	OFF	OFF	ON	ON	ON	OFF	OFF
58	OFF	ON	OFF	ON	ON	ON	OFF	OFF
59	ON	ON	OFF	ON	ON	ON	OFF	OFF
60	OFF	OFF	ON	ON	ON	ON	OFF	OFF
61	ON	OFF	ON	ON	ON	ON	OFF	OFF
62	OFF	ON	ON	ON	ON	ON	OFF	OFF
63	ON	ON	ON	ON	ON	ON	OFF	OFF
64	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
65	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
66	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF
67	ON	ON	OFF	OFF	OFF	OFF	ON	OFF
68	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
69	ON	OFF	ON	OFF	OFF	OFF	ON	OFF
70	OFF	ON	ON	OFF	OFF	OFF	ON	OFF
71	ON	ON	ON	OFF	OFF	OFF	ON	OFF
72	OFF	OFF	OFF	ON	OFF	OFF	ON	OFF
73	ON	OFF	OFF	ON	OFF	OFF	ON	OFF
74	OFF	ON	OFF	ON	OFF	OFF	ON	OFF
75	ON	ON	OFF	ON	OFF	OFF	ON	OFF
76	OFF	OFF	ON	ON	OFF	OFF	ON	OFF
77	ON	OFF	ON	ON	OFF	OFF	ON	OFF
78	OFF	ON	ON	ON	OFF	OFF	ON	OFF
79	ON	ON	ON	ON	OFF	OFF	ON	OFF
80	OFF	OFF	OFF	OFF	ON	OFF	ON	OFF
81	ON	OFF	OFF	OFF	ON	OFF	ON	OFF
82	OFF	ON	OFF	OFF	ON	OFF	ON	OFF
83	ON	ON	OFF	OFF	ON	OFF	ON	OFF
84	OFF	OFF	ON	OFF	ON	OFF	ON	OFF
85	ON	OFF	ON	OFF	ON	OFF	ON	OFF
86	OFF	ON	ON	OFF	ON	OFF	ON	OFF
87	ON	ON	ON	OFF	ON	OFF	ON	OFF
88	OFF	OFF	OFF	ON	ON	OFF	ON	OFF
89	ON	OFF	OFF	ON	ON	OFF	ON	OFF
90	OFF	ON	OFF	ON	ON	OFF	ON	OFF
91	ON	ON	OFF	ON	ON	OFF	ON	OFF
92	OFF	OFF	ON	ON	ON	OFF	ON	OFF
93	ON	OFF	ON	ON	ON	OFF	ON	OFF

Indirizzo Address Adresse Adresse								
	1	2	3	4	5	6	7	8
94	OFF	ON	ON	ON	ON	OFF	ON	OFF
95	ON	ON	ON	ON	ON	OFF	ON	OFF
96	OFF	OFF	OFF	OFF	OFF	ON	ON	OFF
97	ON	OFF	OFF	OFF	OFF	ON	ON	OFF
98	OFF	ON	OFF	OFF	OFF	ON	ON	OFF
99	ON	ON	OFF	OFF	OFF	ON	ON	OFF
100	OFF	OFF	ON	OFF	OFF	ON	ON	OFF
101	ON	OFF	ON	OFF	OFF	ON	ON	OFF
102	OFF	ON	ON	OFF	OFF	ON	ON	OFF
103	ON	ON	ON	OFF	OFF	ON	ON	OFF
104	OFF	OFF	OFF	ON	OFF	ON	ON	OFF
105	ON	OFF	OFF	ON	OFF	ON	ON	OFF
106	OFF	ON	OFF	ON	OFF	ON	ON	OFF
107	ON	ON	OFF	ON	OFF	ON	ON	OFF
108	OFF	OFF	ON	ON	OFF	ON	ON	OFF
109	ON	OFF	ON	ON	OFF	ON	ON	OFF
110	OFF	ON	ON	ON	OFF	ON	ON	OFF
111	ON	ON	ON	ON	OFF	ON	ON	OFF
112	OFF	OFF	OFF	OFF	ON	ON	ON	OFF
113	ON	OFF	OFF	OFF	ON	ON	ON	OFF
114	OFF	ON	OFF	OFF	ON	ON	ON	OFF
115	ON	ON	OFF	OFF	ON	ON	ON	OFF
116	OFF	OFF	ON	OFF	ON	ON	ON	OFF
117	ON	OFF	ON	OFF	ON	ON	ON	OFF
118	OFF	ON	ON	OFF	ON	ON	ON	OFF
119	ON	ON	ON	OFF	ON	ON	ON	OFF
120	OFF	OFF	OFF	ON	ON	ON	ON	OFF
121	ON	OFF	OFF	ON	ON	ON	ON	OFF
122	OFF	ON	OFF	ON	ON	ON	ON	OFF
123	ON	ON	OFF	ON	ON	ON	ON	OFF
124	OFF	OFF	ON	ON	ON	ON	ON	OFF
125	ON	OFF	ON	ON	ON	ON	ON	OFF
126	OFF	ON	ON	ON	ON	ON	ON	OFF
127	ON	ON	ON	ON	ON	ON	ON	OFF
128	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
129	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON
130	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON
131	ON	ON	OFF	OFF	OFF	OFF	OFF	ON
132	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON
133	ON	OFF	ON	OFF	OFF	OFF	OFF	ON
134	OFF	ON	ON	OFF	OFF	OFF	OFF	ON
135	ON	ON	ON	OFF	OFF	OFF	OFF	ON
136	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON
137	ON	OFF	OFF	ON	OFF	OFF	OFF	ON
138	OFF	ON	OFF	ON	OFF	OFF	OFF	ON
139	ON	ON	OFF	ON	OFF	OFF	OFF	ON
140	OFF	OFF	ON	ON	OFF	OFF	OFF	ON
141	ON	OFF	ON	ON	OFF	OFF	OFF	ON
142	OFF	ON	ON	ON	OFF	OFF	OFF	ON
143	ON	ON	ON	ON	OFF	OFF	OFF	ON
144	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON
145	ON	OFF	OFF	OFF	ON	OFF	OFF	ON
146	OFF	ON	OFF	OFF	ON	OFF	OFF	ON
147	ON	ON	OFF	OFF	ON	OFF	OFF	ON
148	OFF	OFF	ON	OFF	ON	OFF	OFF	ON

Ind

Display:

IT - All'accensione, il display indica per qualche secondo il messaggio "WRT" lampeggiante, poi i valori dei vari sensori in alternanza ogni 5 secondi. Se la temperatura va fuori scala, compare il messaggio "LOWT" (T < 2°C [T < 28.4°F]) o "HGT" (T > 52°C [T > 125.6°F]).
La temperatura può essere visualizzata in °C o °F tramite il Jumper JP6.

EN - At startup, the display indicates the flashing message "WRT", and then alternates the values of sensors every 5 seconds. If temperature is out of scale, message "LOWT" (T < 2°C [T < 28.4°F]) or "HGT" (T > 52°C [T > 125.6°F]) is indicated. Temperature can be visualized in °C or °F selecting position of jumper JP6.

DE - Beim Einschalten erscheint auf den Display für einige Sekunden die Nachricht "WRT" blinkend, dann wechseln sich die Werte abwechselnd alle 5 Sekunden ab. Sobald die Temperatur den Bereich überschreitet erscheint die Meldung LOWT (T < 2°C [T < 28.4°F]) oder HGT (T > 52°C [T > 125.6°F]). Die Temperatur kann durch den Jumper JP6 entweder in °C oder in °F angezeigt werden.

FR - A la mise sous tension, le display indique "WRT" clignotant, puis les valeurs des senseurs en alternance toutes les 5 secondes. Si la température va au-delà de l'échelle, il apparaît "LOWT" (T < 2°C [T < 28.4°F]) ou "HGT" (T > 52°C [T > 125.6°F]) sur le display.
La température peut être visualisée en °C ou °F en utilisant le cavalier JP6.

Impostazione jumper / Jumper setting / Jumper Einstellung / Réglage des cavaliers:

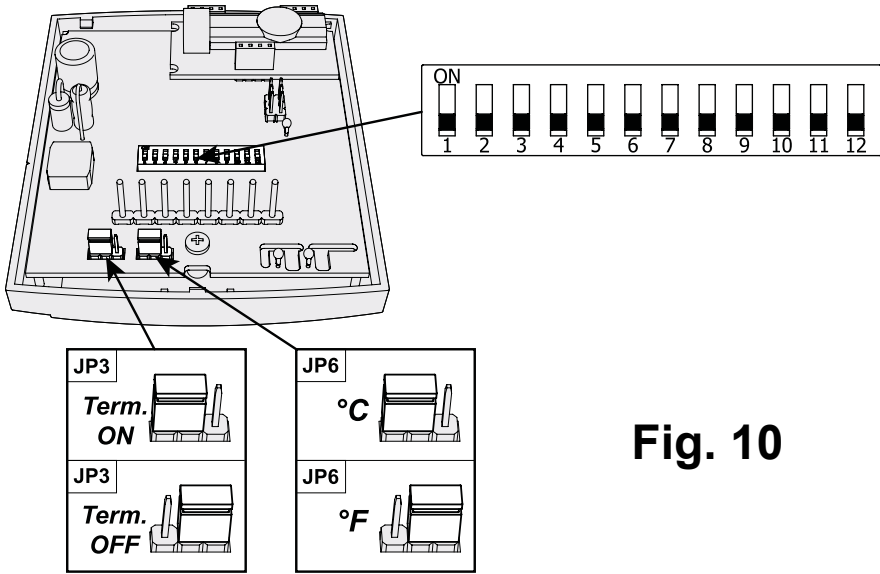
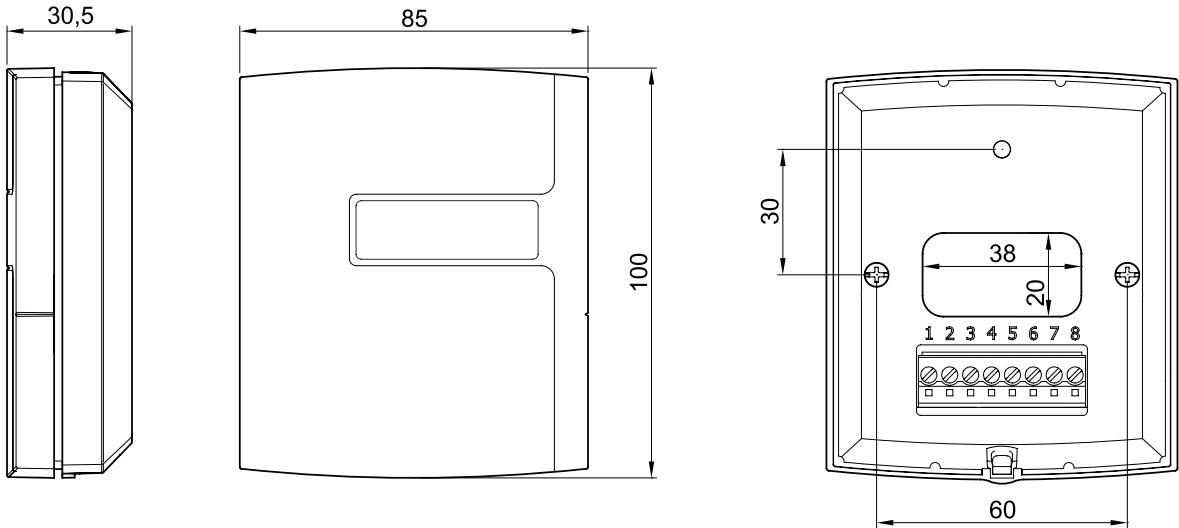
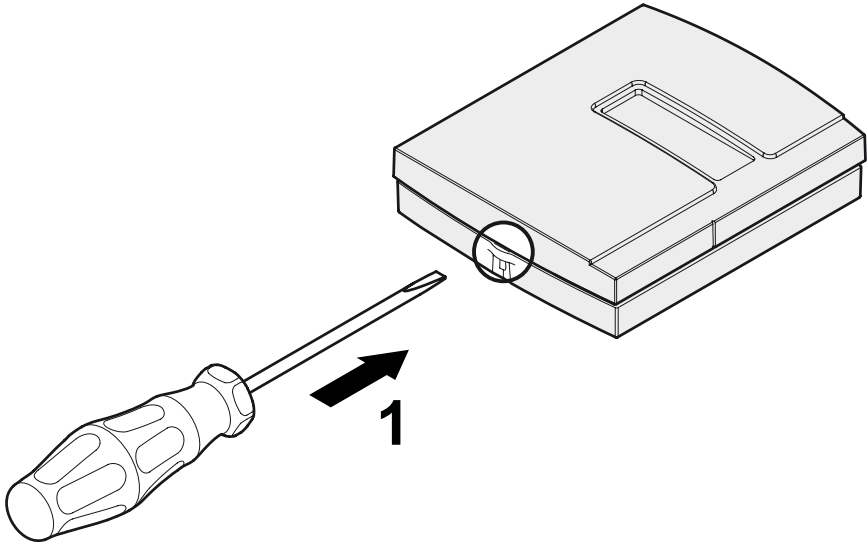


Fig. 10

Dimensioni / Dimensions / Abmessungen / Dimensions:



Montaggio / Mounting / Montage / Montage:

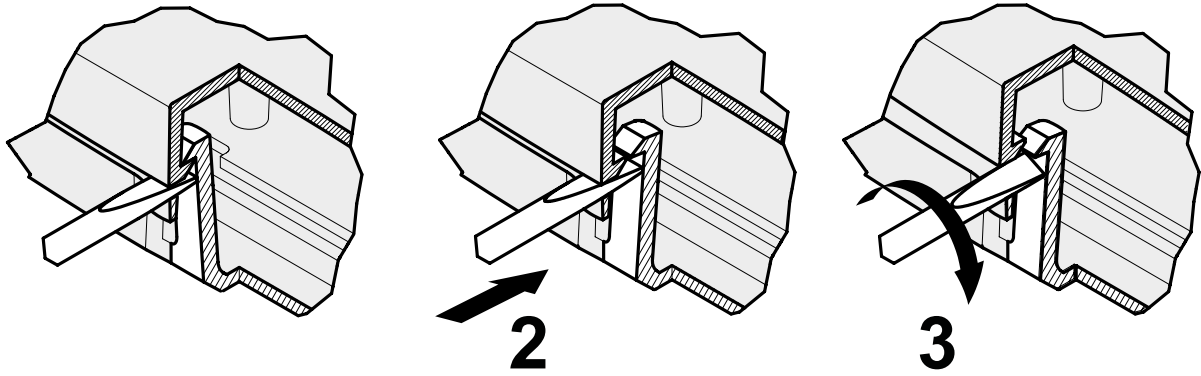


IT - Per rimuovere il coperchio, utilizzare un cacciavite a taglio da 3mm per sbloccare la linguetta di bloccaggio del fondale.

EN - To remove the front cover, use a 3mm flat-blade screwdriver to depress the locking tongue in the lower part of the casing.

DE - Um den Deckel zu entfernen müssen die einen Schlitz Schraubendreher zu 3mm verwenden um den Federkeil zu lösen

FR - pour enlever le couvercle, utiliser un tournevis à embout plat de 3mm pour débloquer la languette de blocage du socle.

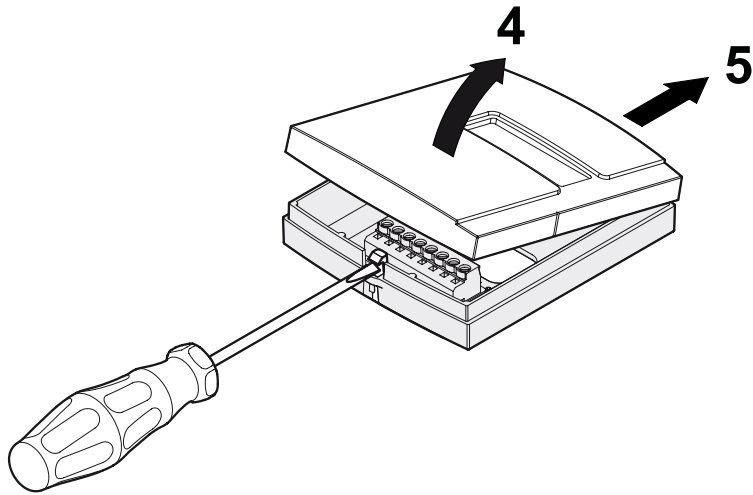


IT - Premere e ruotare il cacciavite e allo stesso tempo tirare il coperchio.

EN - Press and twist the screwdriver and at the same time pull the bottom part of the front outwards.

DE - Den Schraubzieher drücken und drehen und zugleich den Deckel hochziehen

FR - Appuyer et tourner le tournevis et tirer le couvercle en même temps

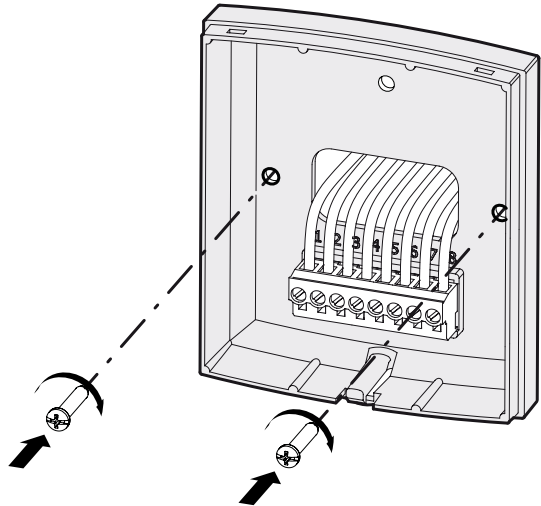


IT - Quando la parte inferiore del coperchio è libera, fare slittare il coperchio come nel punto 5 per liberare le linguette nella parte alta del coperchio.

EN - When the bottom end of the front cover is free from the casing bottom part, slide the cover towards the top of the casing to free the hooks holding the upper edge of the front cover.

DE - Sobald sich der vordere Teil des Deckels nach oben löst diesen wie Punkt 5 veranschaulicht nach schieben.

FR - Lorsque la partie inférieure du couvercle est libre, faire glisser le couvercle comme au point 5 pour libérer les languettes dans la partie haute du couvercle.



IT - Eseguire i collegamenti come mostrato negli schemi. Fissare il fondale della scatola al muro.

EN - Do the connections according to electrical wiring diagrams. Fix the bottom part of the casing on the wall.

DE - Die Verbindungen ausführen wie auf dem Datenblatt veranschaulicht. Das Unterteil des Gehäuses an die Wand anbringen.

FR - Effectuer les raccordements électriques comme indiqués sur les schémas. Fixer le socle du boîtier au mur.