2 Device technology

2CDC 071 115 F0008

XS/S 1.1

The Interface XS/S 1.1 integrates the Intrusion Alarm Panel L240 into the KNX intelligent installation system. It is connected to the XIB bus of the Intrusion Alarm Panel.

The state of all 80 zones of the Intrusion Alarm Panel can be transferred on the KNX. Further states of the Intrusion Alarm Panel are transferred on the KNX, e.g. the setting state, the alarm state and the signalling device states.

Each of the 80 zones can also be contacted via the KNX. The setting can also be undertaken via the KNX, and the alarm system can be reset via the KNX.

Every function, which allows access to the intrusion alarm system via the KNX, can be individually inhibited on the Intrusion Alarm Panel.

2.1 Technical data

Supply	Operating voltage	Implemented via the bus KNX: 21…30 V DC XIB: 12 V DC (rated voltage) Voltage range: 10.5…15 V DC
	Current consumption KNX	5 mA
	Current consumption XIB	Maximum 40 mA, current consumption of the device
Outputs	Voltage output 12 V	Supplied by the XIB 12 V DC supply Maximum current consumption: 500 mA. Short-circuit protection, protected by a self-restoring fuse in the device.
Connections	KNX	bus connection terminal, red/black
	Voltage output 12 V DC	Connection terminal, yellow/white
	XIB (incl. voltage input 12 V DC)	Screw terminal on upper side of device
Operating and display elements	LED red and button	For assignment of the physical address
	LED green	On = XIB voltage (12 V) available Off = XIB voltage (12 V) fault
	LED green	Indicates whether the communication to the Intrusion Alarm Panel functions via the XIB bus. On = communication OK Off = communication fault
	LED yellow	LED is switched on with a connection between the XIB and KNX. Flickers with data traffic.
Enclosure	IP 20	To EN 60529
Safety class	III	To EN 61140
Environmental class	II	To VdS 2110
Isolation category	Overvoltage category	III to EN 60 664-1
	Pollution degree	2 to EN 60664-1

Commissioning

KNX safety extra low voltage	SELV 24 V DC	
Temperature range	Operation	-5 °C…+45 °C
	Storage	-25 °C…+55 °C
	Transport	-25 °C…+70 °C
Ambient conditions	Maximum air humidity	93 %, no condensation allowed
Design	Modular installation device (MDRC)	Modular installation device, Pro*M*
	Dimensions	90 x 36 x 64 mm (H x W x D)
	Mounting width	2 modules at 18 mm
	Mounting depth	68 mm
Installation	On 35 mm mounting rail	To EN 60 715
Mounting position	as required	
Weight	0.077 kg	
Housing, colour	Plastic housing, grey	
Approvals	KNX to EN 50 090-1, -2	
	VdS (only for non-reacting operation)	VdS class C approved (only in conjunction with Intrusion Alarm Panel L240)
CE mark	In accordance with the EMC guideline and low voltage guideline	

Application program	Number of communication objects	Maximum number of group addresses	Maximum number of associations
Interface L240/1.0	179	254	255

Note

The programming requires the software tool ETS2 V1.2 or higher.

If ETS3 is used, a *.VD3 or higher type file must be imported.

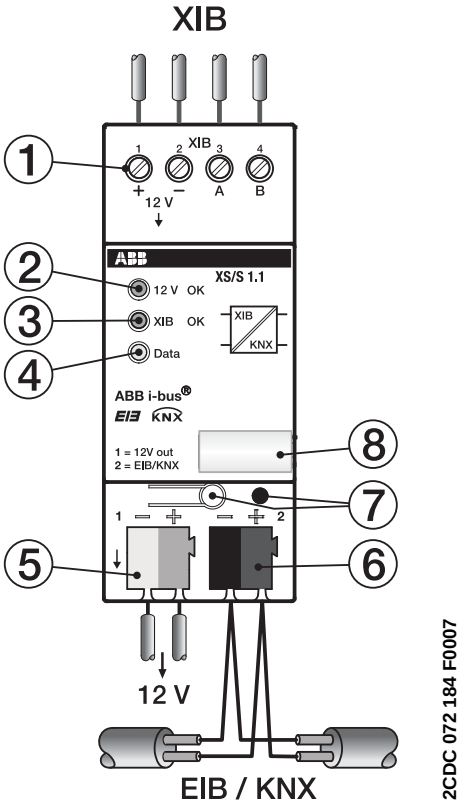
The application program is available in the ETS3 at ABB/Security and Surveillance/Interfaces.

The device does not support the closing function of a project or the KNX device in the ETS. If you inhibit access to all devices of the project with a *BCU code* (ETS3), it has no effect on this device. Data can still be read and programmed.

Note

The Intrusion Alarm Panel L240 requires a firmware version V4.40 (or higher) to ensure that Interface XS/S 1.1 can be operated.
The firmware version is indicated on the Keypad L840/PT as soon as the voltage supply is applied on the alarm panel.

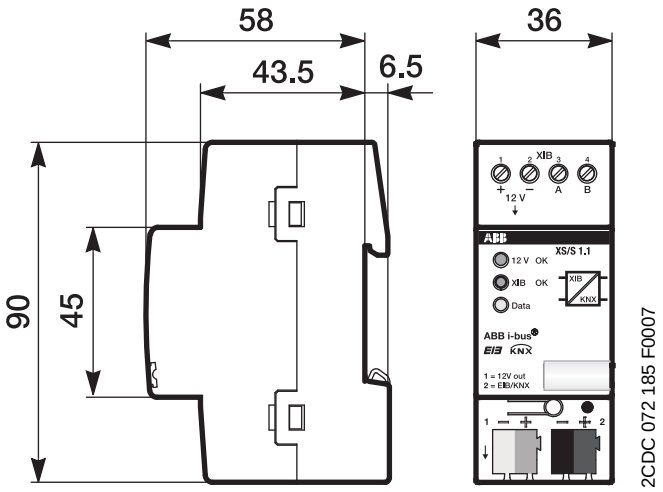
2.2 Circuit diagram



(1) Input XIB	Terminals A, B for data communication and +, - for device power supply.
(2) LED green	12 V OK On = XIB voltage (12 V) available Off = XIB voltage (12 V) fault
(3) LED green	XIB OK Indicates whether the communication to the Intrusion Alarm Panel functions via the XIB bus. On = communication OK Off = communication fault
(4) LED yellow	Data LED is switched on with a connection between the XIB and KNX. Flickers with data traffic.
(5) 12 V out	12 V DC voltage supply, maximum 500 mA Is taken from the XIB 12 V DC supply: yellow = +, white = -
(6) KNX	Bus connection terminal
(7) Button and LED	Button and LED for programming of the physical address in the KNX system
(8) Label carrier	

Important
The 12 V DC output (5) may not be connected should the interface be used in a VdS approved system.

2.3 Dimension drawing



2.4 Assembly and installation

The device is installed in the enclosure of the Intrusion Alarm Panel L240. The required DIN mounting rail is included in the Intrusion Alarm Panel. Alternatively, installation in a distribution board is possible provided that no VdS compliant requirements are to be fulfilled.

The mounting position can be selected as required.

Accessibility to the device for the purpose of operation, testing, visual inspection, maintenance and repair must be provided compliant to DIN VDE 0100-520.

Commissioning requirements

In order to commission the device, a PC with ETS from ETS2 V1.2 or higher as well as an interface to the ABB i-bus®, e.g. via a KNX interface, as well as an Intrusion Alarm Panel L240 (including battery and a keypad L840/PT) is required.

The installation and commissioning may only be carried out by qualified electrical specialists. The appropriate norms, guidelines, regulations and specifications should be observed when planning and setting up electrical installations.

- Protect the device from damp, dirt and damage during transport, storage and operation.
- Only operate the device within the specified technical data limits!
- The device should only be operated in an enclosed housing (distribution board)!

Supplied state

The application program is preloaded in the factory. In order to carry out a complete reprogramming of the device it should be unloaded using the ETS beforehand.

The device is assigned with the physical address 15.15.255 in the factory.

Assignment of the physical address

The assignment of the address of the ABB i-bus® Interface XS/S 1.1 is carried out via the ETS and the programming button on the device.

Cleaning

If devices become dirty, they can be cleaned using a dry cloth. Should a dry cloth not remove the dirt, the device can be cleaned using a slightly damp cloth and soap solution. Corrosive agents or solutions should never be used.

Maintenance

The device is maintenance-free. No repairs should be carried out by unauthorised personnel if damage occurs, e.g. during transport and/or storage. The warranty expires if the device is opened.