ABB i-bus® EIB / KNX

Fault Monitoring Unit, MDRC
SMB/S 1.1, GHQ 631 0085 R0111

2CDC 071 105 F0005

The Fault Monitoring Unit SMB/S 1.1 can detect information, such as, e.g. fault messages from an EIB / KNX system and uses them to generate the control signals for optical and acoustic signals conform to DIN 19235.

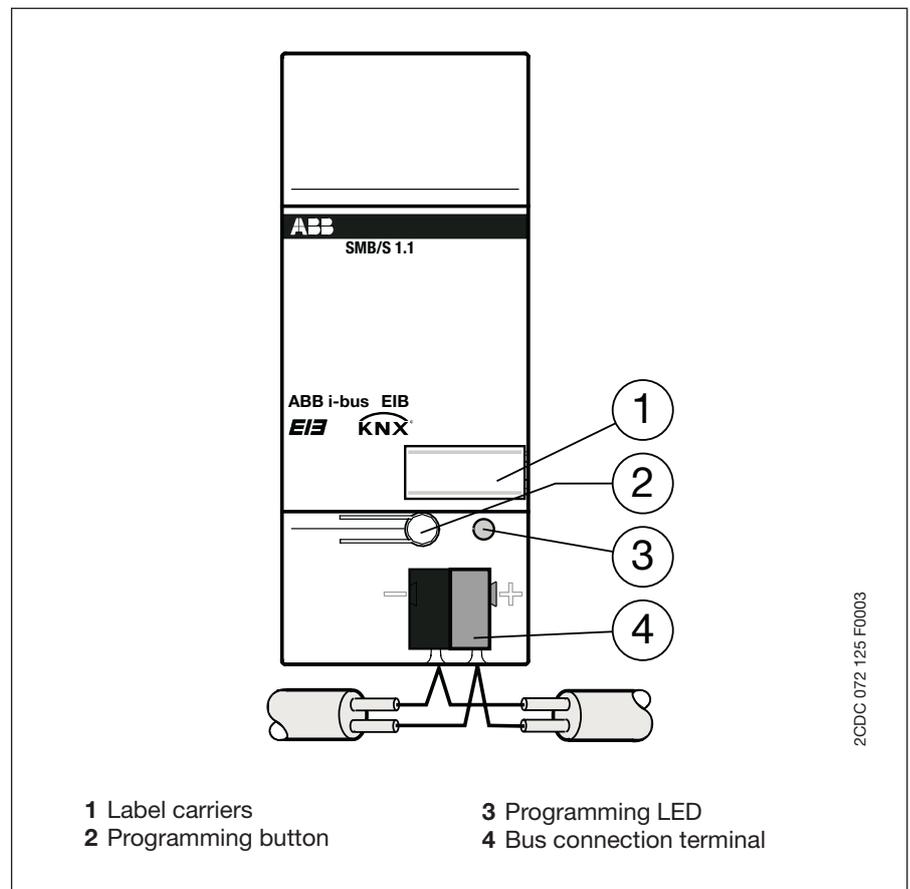|		
Power supply	– Operating voltage – Current consumption – Leakage loss	21...30 V DC, made available by the bus typ. 10 mA Max. 200 mW
Connections	– EIB / KNX	Bus connection terminal
Operating and display elements	– Red LED and button	for assignment of the physical address
Enclosure	– IP 20	to DIN EN 60 529
Safety class	– II	to DIN EN 61 140
Isolation category	– Overvoltage category – Pollution degree	III to DIN EN 60 664-1 2 to DIN EN 60 664-1
EIB / KNX safety extra low voltage	– SELV 24 V DC	
Temperature range	– Operation – Storage – Transport	– 5 °C ... + 45 °C – 25 °C ... + 55 °C – 25 °C ... + 70 °C
Design	– Modular installation device (REG) – Dimensions – Module width – Mounting depth	Modular installation device, Pro*M* 90 x 36 x 64.5 mm (H x W x D) 2 modules at 18 mm 64.5 mm
Installation	– On 35 mm mounting rail	to DIN EN 60 715
Mounting position	– as required	
Weight	– 0.1 kg	
Housing, colour	– Plastic housing, grey	
Approvals	– EIB / KNX to EN 50 090-1, -2	
CE mark	– in accordance with the EMC guideline and low-voltage guideline	
Halogen free	– Yes, conform to DIN VDE 0472 part 815	

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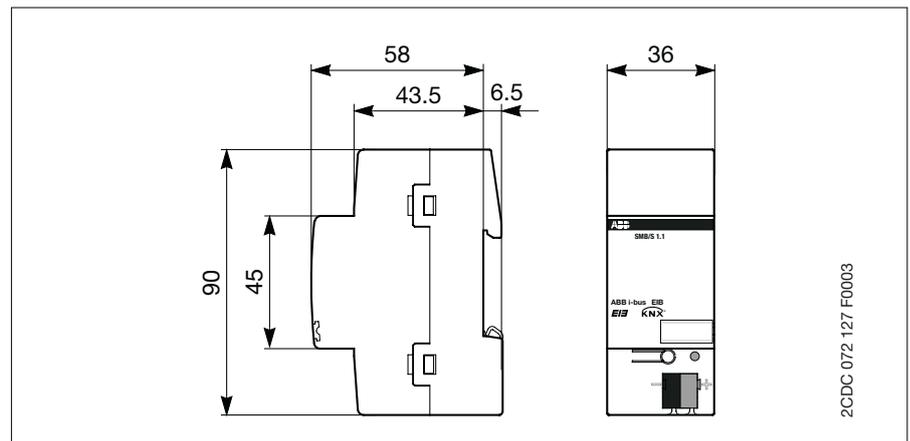| Application program	Max. number of communication objects	Max. number of group addresses	Max. number of associations
Fault signal / 1	254	254	255

Note

The programming requires EIB Software Tool ETS2 V1.1.3a or higher.
If ETS3 is used a ".VD3" type file must be imported.
The application program is available in the ETS2 / ETS3 at ABB/Security and monitoring / Controller.

Detailed information about the application can be found in the product-manuals for the "Fault Monitoring Unit, SMB/S 1.1". This manual can be free downloaded under www.ABB.de/EIB.

Circuit diagram

2CDC 072 125 F0003

1 Label carriers
2 Programming button
3 Programming LED
4 Bus connection terminal

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Dimension drawing

2CDC 072 127 F0003

Assembly and installation

The Fault Monitoring Unit SMB/S 1.1 is a modular installation device for fast installation in the distribution board on 35 mm mounting rails to DIN EN 60 715.

The connection to the bus is implemented using the supplied bus connection terminal.

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

Commissioning requirements

To put the Fault Monitoring Unit SMB/S 1.1 into operation, you require a PC with the Engineering Tool Software ETS2 from V1.3a onwards in conjunction with an RS232 interface or a USB inter-face. The device is ready for operation after connection to the bus voltage.

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

– The device should be protected from damp, dirt and damage during transport, storage and operation.
– The device should not be operated outside the specified technical data!
– The device should only be operated in a closed housing (distribution board)!

Supplied state

The Fault Monitoring Unit is supplied with the physical address 15.15.255. The **Fault signal/1** user program is preinstalled. Hence, only group addresses and parameters must be loaded during commissioning. In order to completely reprogram the unit, it must be discharged beforehand via the ETS. The entire application can be reloaded if required.

Assignment of the physical address

The assignment and programming of the physical address, group address and parameters is carried out in the ETS.

Cleaning

If devices become dirty, they can be cleaned using a dry cloth. Should a dry cloth not remove the dirt, they can be cleaned using a slightly damp cloth and soap solution. Corrosive materials 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 or storage). The warranty expires if the device is opened.

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