



The diagnosis and protection module enables quick diagnostics of the bus state and indicates telegram traffic via an LED. A bus fault ($U < U_{\min}$) is indicated by normally open and normally closed contacts. The DSM incorporates a suppressor diode which suppresses transient overvoltages and interference voltage spikes on the EIB.

The DSM/S is a rail mounted modular installation device for installation in distribution boards. The connection to the ABB i-bus® is established using the bus connection terminal.

Technical Data

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|---|--|--|
| Power supply | <ul style="list-style-type: none"> – Operating voltage – Current consumption – Power consumption via EIB – Leakage loss | 21 ... 32 V DC, via the bus Max. 6 mA < 150 mW Max. 150 mW |
| Operating and display elements | <ul style="list-style-type: none"> – U = ok (1) – $U < U_{\min}$ (2) – Telegram (3) – Red LED (5) and button (6) | Lights up if the bus voltage is ok (approx. > 22.5 V) and the device is ready for operation, if the bus voltage is too low (approx. < 20.5 V) Flashes, if a telegram is sent via the bus, lights with multiple telegrams on the bus Without function |
| Connections | <ul style="list-style-type: none"> – EIB / KNX – Load current circuits – Tightening torque – Signal contacts (8, 9) | Bus connection terminal 0.8 mm Ø, single core Screw terminal 0.2...2.5 mm² Ø, finely stranded 0.2...4 mm² Ø, single core Max. 0.6 Nm In normal operation the contacts are in the normal positions (as indicated on the enclosure). If the bus voltage drops below U_{\min} , the red LED (2) lights and the contacts are energized (N/O contact closes, N/C contact opens). |
| Load rating of the relay contacts | 6 A at 230V AC (AC1/AC3) / 4 A at 24 V DC | |
| Protective function | The DSM incorporates a suppressor diode (43V / 1500W @ 10/1000 µs pulse) which suppresses transient overvoltages and interference voltage spikes on the EIB. It is recommended to apply the device as a “disconnection point”, for example between building sections, to provide optimum protection. | |
| Enclosure | – IP 20 | to DIN EN 60 529 |
| Safety class | – II | to DIN EN 61 140 |
| Isolation category | <ul style="list-style-type: none"> – 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 | |
| Ambient temperature range | <ul style="list-style-type: none"> – Operation – Storage – Transport | <ul style="list-style-type: none"> – 5 °C...+ 45 °C – 25 °C...+ 55 °C – 25 °C...+ 70 °C |
| Design | – Modular installation device, ProM | |
| Housing, colour | – Plastic housing, grey | |
| Installation | – On 35 mm mounting rail | to DIN EN 60 715 |
| Dimensions | – 90 x 36 x 64 mm (H x W x D) | |
| Mounting depth/width | – 36 mm / 2 modules at 18 mm | |
| Weight | – 0.1 kg | |
| Mounting position | – as required | |
| Approvals | – EIB / KNX to EN 50 090-2-2 | |
| CE mark | – in accordance with the EMC guideline and low voltage guideline | |

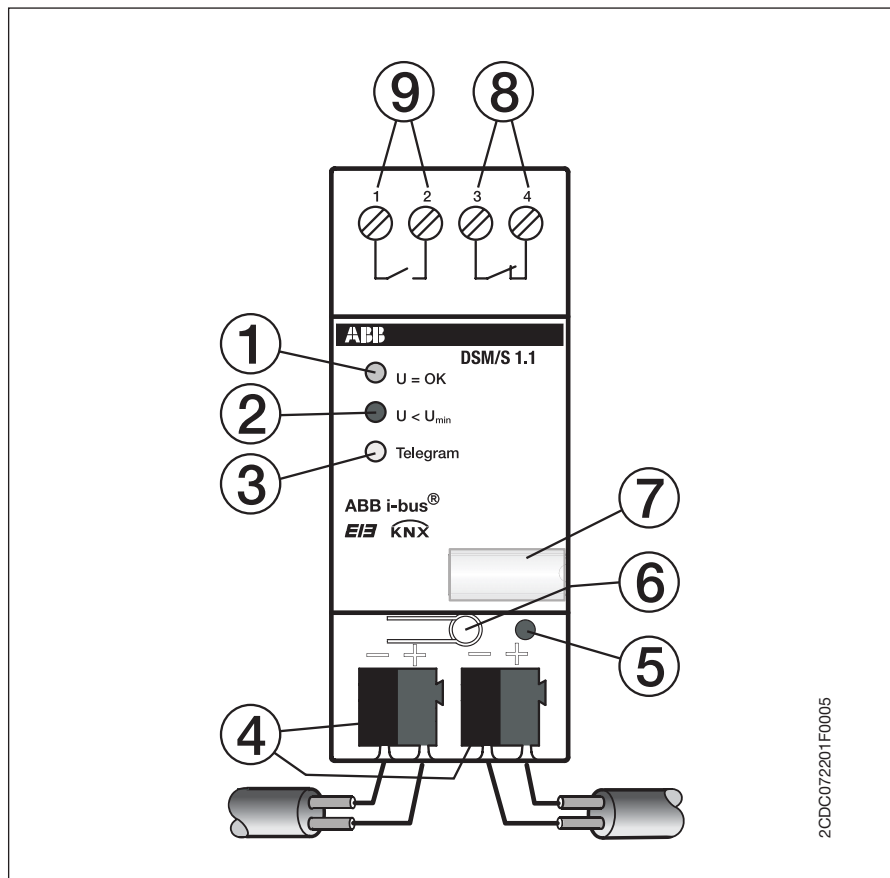
| Application program | Max. number of communication objects | Max. number of group addresses | Max. number of associations |
|-----------------------------------|--------------------------------------|--------------------------------|-----------------------------|
| Diagnosis and protection module/1 | 0 | 0 | 0 |

Note:

No programming of the device is required with the ETS. For documentation purposes a product database can be loaded in the ETS2 (.vd2) or ETS3 (.vd3) which only displays the device.

Circuit diagram

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|--------------------------------|------------------------------------|
| 1 Display, bus voltage ok | 6 Button without function |
| 2 Display, bus voltage too low | 7 Label carriers |
| 3 Display, telegram traffic | 8 Contact for $U < U_{\min}$, N/C |
| 4 EIB connection terminals | 9 Contact for $U < U_{\min}$, N/O |
| 5 LED without function | |

Dimension drawing

