



2CDC 071 011 F0010

BE/S 8.20.2.1

The 8-fold Binary Input BE/S 8.20.2.1 with manual operation is a modular installation device for installation in distribution boards. The device is suitable for detection of floating contacts. The pulsed scanning voltage is generated internally.

The device is ready for operation after connecting the bus voltage. The Binary Input is parameterized via ETS. The connection to the KNX is implemented using the bus connection terminal on the front.

Buttons for manual operation, which can be used to simulate the input state are located on the front. The current status of the inputs is indicated via yellow LEDs.

Technical data

| | | |
|---|---------------------------------------|--|
| Supply | Bus voltage | 21...32 V DC |
| | Current consumption, bus | Maximum 7 mA |
| | Power consumption, Bus | Maximum 150 mW |
| | Leakage loss, bus | Maximum 150 mW |
| Inputs | Number | 8 |
| | Scanning voltage U_n | 35 V, pulsed |
| | Scanning current I_n | 0.1 mA |
| | Scanning current I_n at switch on | Maximum 355 mA |
| | Permissible cable length | Maximum 100 m at 1.5 mm ² |
| Connections | KNX | Via bus connection terminals |
| | Inputs | Via universal head screw terminals (PZ 1) |
| Bus connection terminals | Screw terminal | Screw terminals with universal head (PZ 1) 0.2...4 mm ² stranded, 2 x (0.2...2.5 mm ²) 0.2...6 mm ² single core, 2 x (0.2...4 mm ²) |
| | Ferrules without/with plastic sleeves | without: 0.25...2.5 mm ² with: 0.25...4 mm ² |
| | TWIN ferrules | 0.5...2.5 mm ² Contact pin length at least 10 mm |
| | Tightening torque | Maximum 0.8 Nm |
| | Grid | 6.35 |
| | Operating and display elements | <i>Programming</i> Button <i>Programming</i> LED Button  /LED  |
| Button  /LED  (applies for all binary inputs, A...H) | | For switching and display |
| Enclosure | | IP 20 |
| Safety class | II | To DIN EN 61 140 |
| Isolation category | Overvoltage category | III to DIN EN 60 664-1 |
| | Pollution degree | 2 to DIN EN 60 664-1 |
| 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 72 x 67.5 mm (H x W x D) |
| | Mounting width in space units | 4 modules at 18 mm |
| | Mounting depth | 67.5 mm |
| Installation | On 35 mm mounting rail | To DIN EN 60 715 |
| Mounting position | As required | |
| Weight | 0.2 kg | |
| Housing/colour | Plastic housing, grey | |
| Approvals | KNX to EN 50 090-1, -2 | Certification |
| CE mark | In accordance with the EMC guideline and low voltage guideline | |

| Device type | Application program | Maximum number of communication objects | Maximum number of group addresses | Maximum number of associations |
|---|---------------------|---|-----------------------------------|--------------------------------|
| BE/S 8.20.2.1 | Binary 8f 2021/...* | 83 | 254 | 254 |
| * ... = current version number of the application program | | | | |

Note

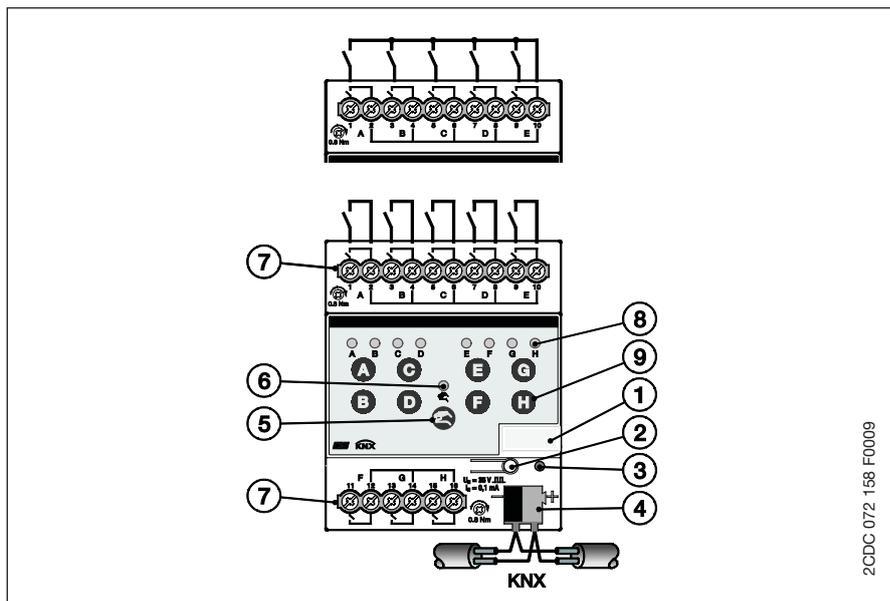
For a detailed description of the application program see „Binary Inputs“ product manual.
It is available free-of-charge at www.ABB.de/KNX.

The ETS and the current version of the device application program are required for programming.

The current version of the application program is available for download on the Internet at www.abb.com/knx. After import it is available in the ETS under *ABB/Input/Binary input 8-fold*.

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

Circuit diagram
BE/S 8.20.2.1



- | | |
|----------------------------|-------------------------|
| 1 Label carrier | 6 Manual operation LED |
| 2 Programming button | 7 Connection terminals |
| 3 Programming LED | 8 Binary input LED |
| 4 Bus connection terminal | 9 Binary input button |
| 5 Manual operation button | |

Note

An external voltage connection to Binary Input BE/S 8.20.2.1 is not allowed.
Terminals 2, 4, 6, 8, 10, 12, 14 and 16 are internally interconnected.

Dimension drawing
BE/S 8.20.2.1

