The 8-fold Binary Input BE/S 8.20.1 with manual operation is a rail mounted device for insertion in the distribution board. The device is suitable for reading out of floating contacts. The pulsed polling voltage is generated internally.

Buttons on the front of the device can be used to simulate the input state. The status of the inputs are displayed by yellow LEDs.

The device is ready for operation after connection to the bus voltage. The Binary Input is parameterised via ETS2 V1.3a or higher. The connection to the bus is established using the front side bus connection terminal.

### Technical Data

#### Power supply
- Bus voltage: 21 ... 32 V DC
- Current consumption: < 12 mA
- Leakage loss, bus: Max. 250 mW

#### Inputs
- Number: 8
- Polling voltage $U_p$: 32 V, pulsed
- Sensing current $I_s$: 0.1 mA
- Sensing current $I_s$ when switching on: Max. 355 mA
- Permitted cable lengths: $\leq$ 100 m with 1.5 mm²

#### Connections
- EIB / KNX
- Inputs via bus connection terminal, without screws
- via screw terminals

#### Connection terminals
- Screw terminals: 0.2 ... 2.5 mm² finely stranded
- 0.2 ... 4.0 mm² single core
- Tightening torque: Max. 0.6 Nm

#### Operating and display elements
- Programming LED (3)
- Programming button (2)
- Channel LED (8)
- Manual operation button (9)
- Manual/Automatic LED (Man.) (6)
- Manual/Automatic button (Man.) (5)
- 1 LED per channel for display of the input state
- 1 button per channel for changing the input state
- 1 LED for display of the manual/automatic mode states
- 1 button for switchover of manual and automatic mode

#### Enclosure
- IP 20 to DIN EN 60 529

#### Safety class
- II to DIN EN 61 140

#### Temperature range
- Operation: – 5 °C ... + 45 °C
- Storage: – 25 °C ... + 55 °C
- Transport: – 25 °C ... + 70 °C

#### Design
- Modular installation device (MDRC)
- Dimensions: 90 x 72 x 67.5 mm (H x W x D)
- Mounting width in space units: 4, 4 modules at 18 mm
- Mounting depth: 67.5 mm

#### Installation
- On 35 mm mounting rails to DIN EN 60 715

#### Mounting position
- as required

#### Weight
- 0.2 kg

#### Housing/colour
- Plastic housing, grey

#### Approvals
- EIB / KNX to EN 50 090-1, -2 certificate

#### CE mark
- in accordance with the EMC guideline and low voltage guideline

#### Halogen free
- Yes, conform to DIN VDE 0472 part 815
### ABB i-bus® EIB / KNX

Binary Input with manual operation, 8-fold, contact scanning, MDRC
BE/S 8.20.1, 2CDG 110 056 R0011

<table>
<thead>
<tr>
<th>Application program</th>
<th>Max. number of communication objects</th>
<th>Max. number of group addresses</th>
<th>Max. number of associations</th>
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<tr>
<td>Binary, 8f20M/1</td>
<td>83</td>
<td>254</td>
<td>254</td>
</tr>
</tbody>
</table>

**Note**

The programming requires EIB Software Tool ETS2 V1.3a or higher. If ETS3 is used a “.VD3” type file must be imported. The application program is available in the ETS2 / ETS3 at ABB/Input/Binary Input 4-fold.

Detailed information about the application can be found in the product-manuals for the „Binary Input BE/S“. This manual can be free downloaded under [www.ABB.de/EIB](http://www.ABB.de/EIB).
ABB i-bus® EIB / KNX

Binary Input with manual operation, 8-fold, contact scanning, MDRC
BE/S 8.20.1, 2CDG 110 056 R0011

Circuit diagram

1. Label carriers
2. Programming button
3. Programming LED
4. Bus connection terminal
5. Manual/Automatic button
6. Manual/Automatic LED
7. Connection terminals
8. Channel LED
9. Manual operation button

Dimension drawing
Binary Input with manual operation, 8-fold, contact scanning, MDRC
BE/S 8.20.1, 2CDG 110 056 R0011