

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

<b>Power supply</b>	– Bus voltage – Current consumption, – Leakage loss, bus	21 ... 32 V DC < 12 mA Max. 250 mW
<b>Inputs</b>	– Number – Polling voltage $U_n$ – Sensing current $I_n$ – Sensing current $I_n$ when switching on – Permitted cable lengths	8 32 V, pulsed 0.1 mA Max. 355 mA m 100 m with 1.5 mm <sup>2</sup>
<b>Connections</b>	– EIB / KNX – Inputs	via bus connection terminal, without screws via screw terminals
<b>Connection terminals</b>	– Screw terminals  – Tightening torque	0.2 ... 2.5 mm <sup>2</sup> finely stranded 0.2 ... 4.0 mm <sup>2</sup> single core Max. 0.6 Nm
<b>Operating and display elements</b>	– Programming LED – Programming button – Channel LED – Manual operation button – Manual/Automatic LED (Man.)  – Manual/Automatic button (Man.)	for assignment of the physical address for assignment of the physical address 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
<b>Enclosure</b>	– IP 20	to DIN EN 60 529
<b>Safety class</b>	– II	to DIN EN 61 140
<b>Temperature range</b>	– Operation – Storage – Transport	– 5 °C...+ 45 °C – 25 °C...+ 55 °C – 25 °C...+ 70 °C
<b>Environment conditions</b>	– max. humidity	93%, without bedewing
<b>Design</b>	– Modular installation device (MDRC) – Dimensions – Mounting width in space units – Mounting depth	Modular installation device, ProM 90 x 72 x 67.5 mm (H x W x D) 4, 4 modules at 18 mm 67.5 mm
<b>Installation</b>	– On 35 mm mounting rails	to DIN EN 60 715
<b>Mounting position</b>	– as required	
<b>Weight</b>	– 0.2 kg	
<b>Housing/colour</b>	– Plastic housing, grey	
<b>Approvals</b>	– EIB / KNX to EN 50 090-1, -2	certificate
<b>CE mark</b>	– 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
Binary 8f 20M/1	83	254	254

**Note**

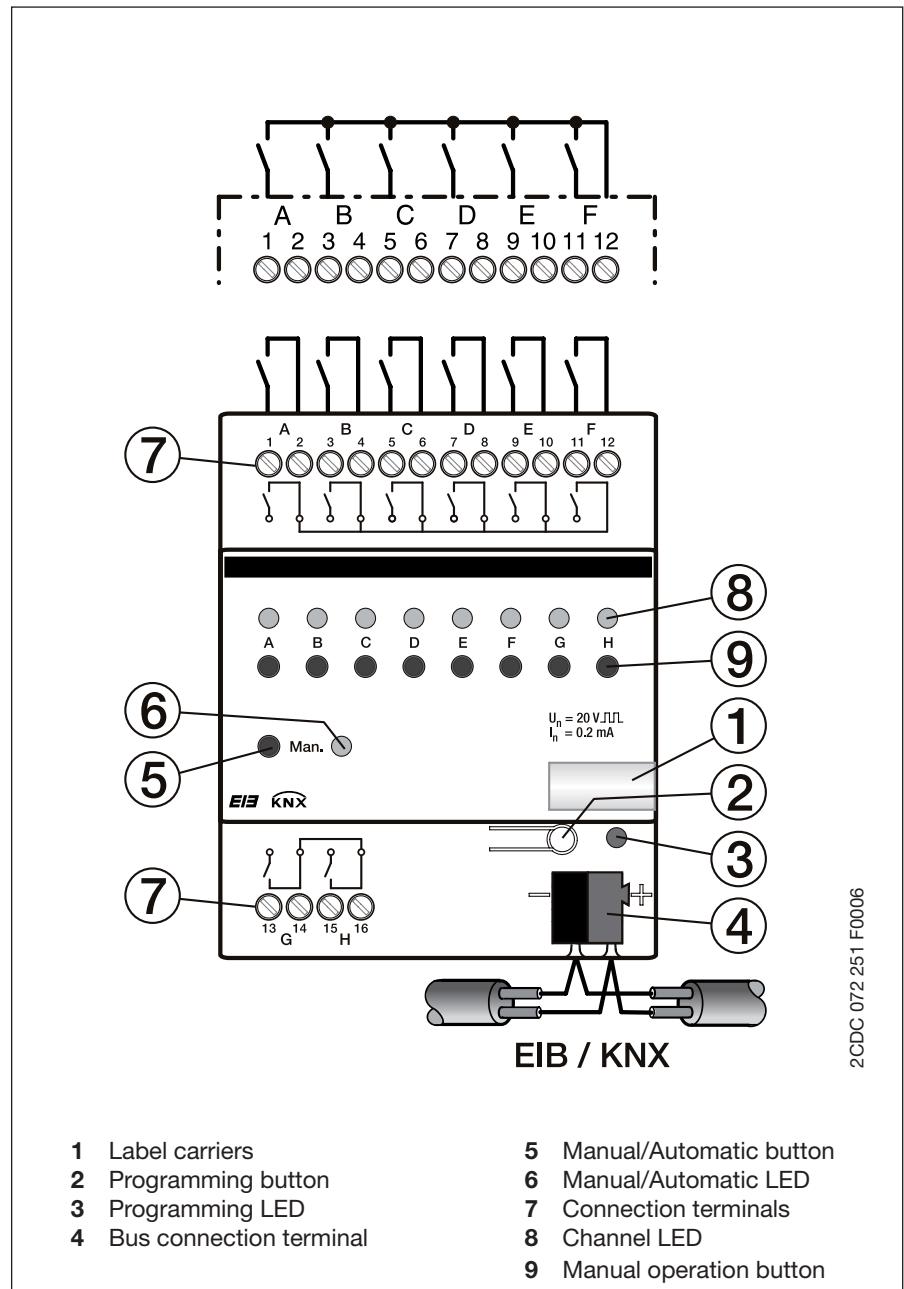
The programming requires EIB Software Tool ETS2 V1.3a or higher. If ETS3 is used a “.VD3” type file must be imported. The application program is available in the ETS2 / ETS3 at ABB/Input/Binary Input 4-fold.

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

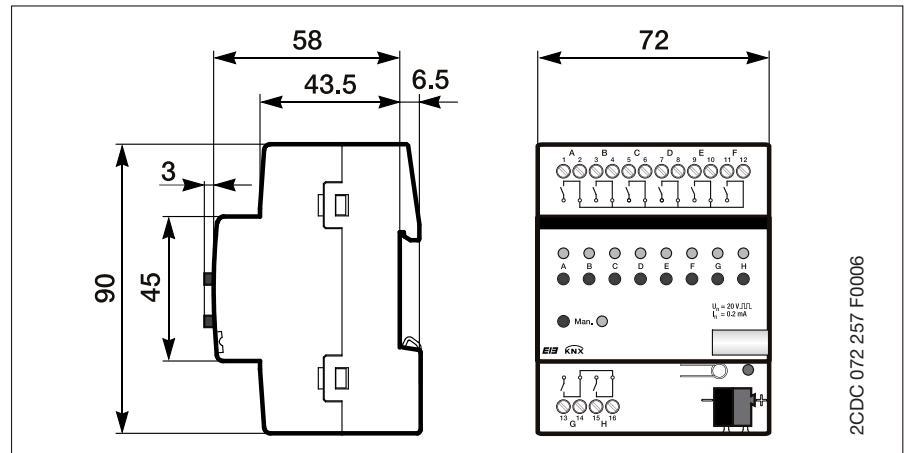
## Circuit diagram

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## Dimension drawing



## Notes