



2CDC 071 594 F0004

The 4-fold Binary Input BE/S 4.230.1 with manual operation is a rail mounted device for insertion in the distribution board. The device is suitable for reading out 0...265 V AC/DC signals. Inputs A and B are independent of inputs C and D.

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>                   | <ul style="list-style-type: none"> <li>– Bus voltage</li> <li>– Current consumption, bus</li> <li>– Power consumption</li> <li>– Leakage loss, bus</li> </ul>   | 21 ... 32 V DC<br>< 10 mA<br>Max. 1.8W<br>Max. 200 mW   |
| <b>Inputs</b>                         | <ul style="list-style-type: none"> <li>– Number</li> <li>– Permitted voltage range <math>U_n</math></li> <li>– Input current <math>I_n</math></li> <li>– Signal level for 0-signal</li> <li>– Signal level for 1-signal</li> <li>– Permitted cable lengths</li> </ul> | 4<br>0...265 V AC/DC<br>Max. 2 mA<br>0...120 V AC/DC<br>180...265 V AC/DC<br>≤ 100 m with 1.5 mm <sup>2</sup>   |
| <b>Connections</b>                    | <ul style="list-style-type: none"> <li>– EIB / KNX</li> <li>– Inputs</li> </ul>   | via bus connection terminal, without screws<br>using screw terminals  |
| <b>Connection terminals</b>           | <ul style="list-style-type: none"> <li>– Screw terminals</li> <li>– Tightening torque</li> </ul>  | 0.2 ... 2.5 mm <sup>2</sup> finely stranded<br>0.2 ... 4.0 mm <sup>2</sup> , single-core<br>Max. 0.6 Nm   |
| <b>Operating and display elements</b> | <ul style="list-style-type: none"> <li>– Programming LED</li> <li>– Programming button</li> <li>– Channel LED</li> <li>– Manual operation button</li> <li>– Manual/Automatic LED (Man.)</li> <li>– Manual/Automatic button (Man.)</li> </ul>                          | for assignment of the physical address for<br>assignment of the physical address<br>1 LED per channel for display of the input state<br>1 button per channel for changing the input<br>state 1 LED for display of the manual/<br>automatic mode states<br>1 button for switchover of manual and<br>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>              | <ul style="list-style-type: none"> <li>– Operation</li> <li>– Storage</li> <li>– Transport</li> </ul>   | – 5 °C...+ 45 °C<br>– 25 °C...+ 55 °C<br>– 25 °C...+ 70 °C  |
| <b>Environment conditions</b>         | – max. humidity   | 93%, without bedewing   |
| <b>Design</b>                         | <ul style="list-style-type: none"> <li>– Modular installation device (MDRC)</li> <li>– Dimensions</li> <li>– Mounting width in space units</li> <li>– Mounting depth</li> </ul>   | Modular installation device, ProM<br>90 x 36 x 67.5 mm (H x W x D)<br>2, 2 modules at 18 mm<br>67.5 mm  |
| <b>Installation</b>                   | – On 35 mm mounting rails to DIN EN 60 715  | to DIN EN 60 715  |
| <b>Mounting position</b>              | – as required   |   |
| <b>Weight</b>                         | – 0.1 kg  |   |
| <b>Housing/colour</b>                 | – Plastic housing, grey   |   |
| <b>Approvals</b>                      | – EIB / KNX to EN 50 090-1, -2 certificate  | certificate   |
| <b>CE mark</b>                        | – in accordance with the EMC guideline and<br>low voltage guideline   |   |

| Application program | Max. number of communication objects | Max. number of group addresses | Max. number of associations |
|---------------------|--------------------------------------|--------------------------------|-----------------------------|
| Binary 4f 230M/1    | 43                                   | 254                            | 254                         |

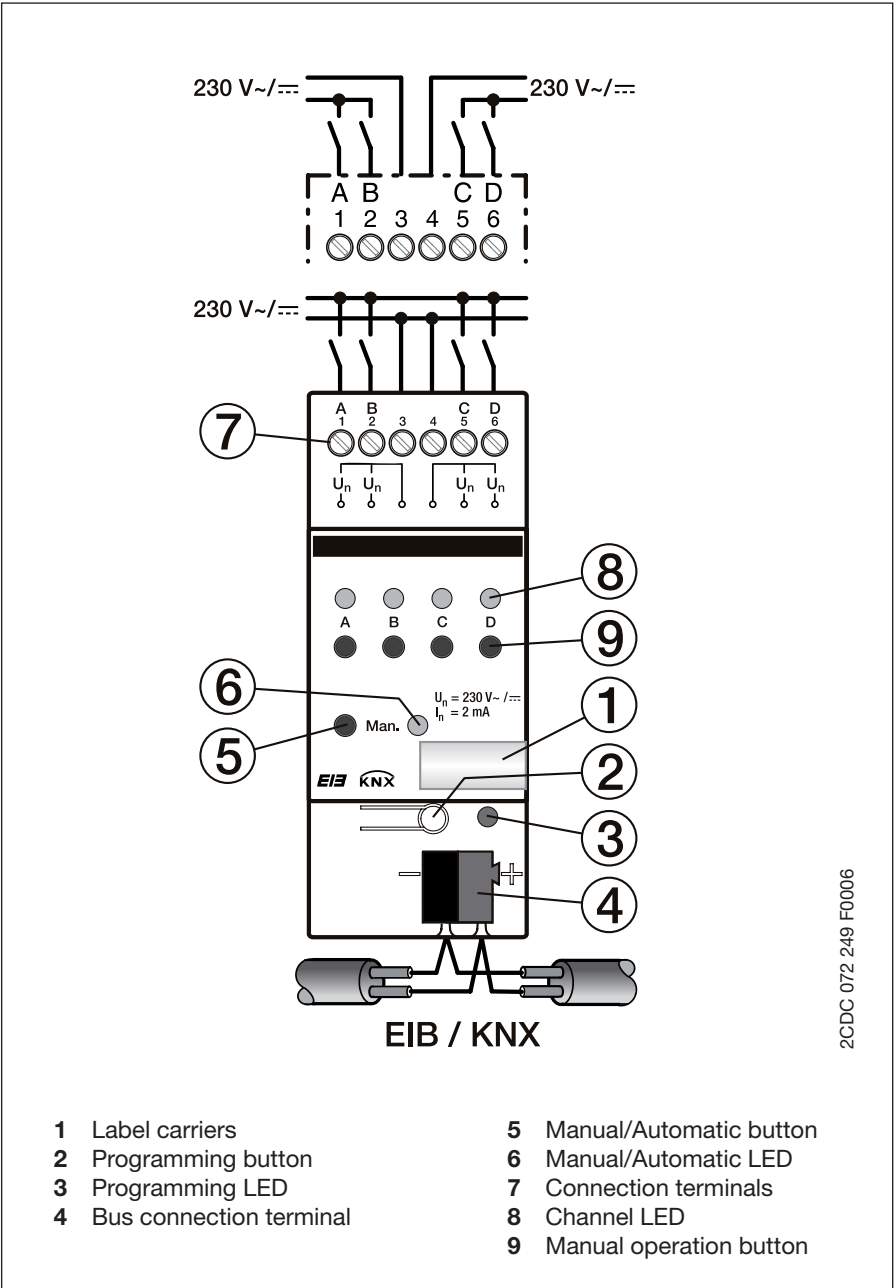
**Note**

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.

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).

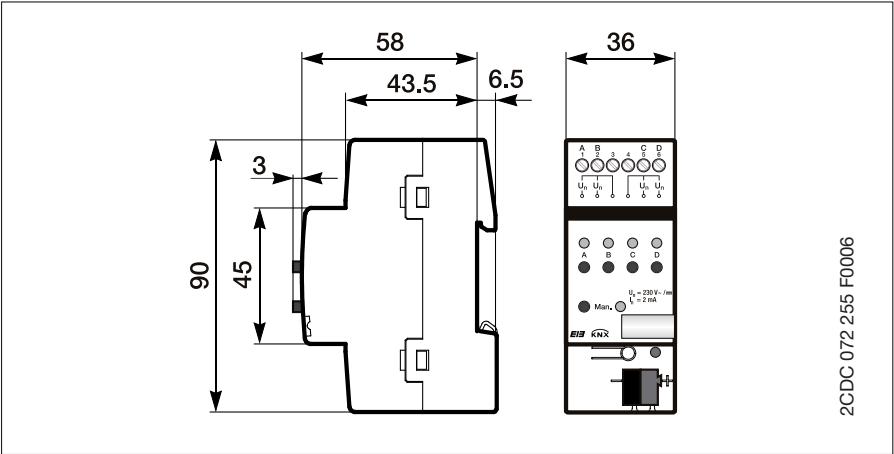
Circuit diagram

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Dimension drawing



## Notes

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