



BE/S 4.230.2.1

2CDC 071 010 F0010

The 4-fold Binary Input BE/S 4.230.2.1 with manual operation is a modular installation device for installation in distribution boards. The device is suitable for detection of 10...230 V AC/DC signals. Inputs A and B are independent of the inputs C and D.

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**

<b>Supply</b>	Bus voltage	21...32 V AC
	Current consumption, bus	Maximum 5 mA
	Power consumption, Bus	Maximum 100 mW
	Leakage loss, bus	Maximum 800 mW with AC operation Maximum 1.6 W with DC operation
<b>Inputs</b>	Number	4
	Permissible voltage range $U_n$	0...265 V AC / DC
	Input current $I_n$	Maximum 1 mA
	Signal level for 0 signal	0...2 V AC / DC
	Signal level for 1 signal	7...265 V AC / DC
<b>Connections</b>	KNX	Via bus connection terminals
	Inputs	Via slot-head screw terminals
<b>Bus connection terminals</b>	Screw terminals	0.2 ... 2.5 mm <sup>2</sup> stranded 0.2 ... 4.0 mm <sup>2</sup> solid core
	Tightening torque	Maximum 0.6 Nm
<b>Operating and display elements</b>	<i>Programming</i> Button	For assignment of the physical address
	<i>Programming</i> LED	
	Button  /LED	For toggling between manual operation/operation via ABB i-bus® and displays
	Button  /LED	For switching and display (applies for all binary inputs, A...D)
<b>Enclosure</b>	IP 20	To DIN EN 60 529
<b>Safety class</b>	II	To DIN EN 61 140
<b>Isolation category</b>	Overvoltage category	III to DIN EN 60 664-1
	Pollution degree	2 to DIN EN 60 664-1
<b>KNX safety extra low voltage</b>	SELV 24 V DC	
<b>Temperature range</b>	Operation	-5 °C...+45 °C
	Storage	-25 °C...+55 °C
	Transport	-25 °C...+70 °C
<b>Ambient conditions</b>	Maximum air humidity	93 %, no condensation allowed
<b>Design</b>	Modular installation device (MDRC)	Modular installation device, Pro M
	Dimensions	90 x 36 x 67.5 mm (H x W x D)
	Mounting width in space units	2 modules at 18 mm
	Mounting depth	67.5 mm

<b>Installation</b>	On 35 mm mounting rail	To 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>	KNX to EN 50 090-1, -2	Certification
<b>CE mark</b>	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 4.230.2.1	Binary 4f 23021/...*	43	254	254

\* ... = current version number of the application program

**Note**

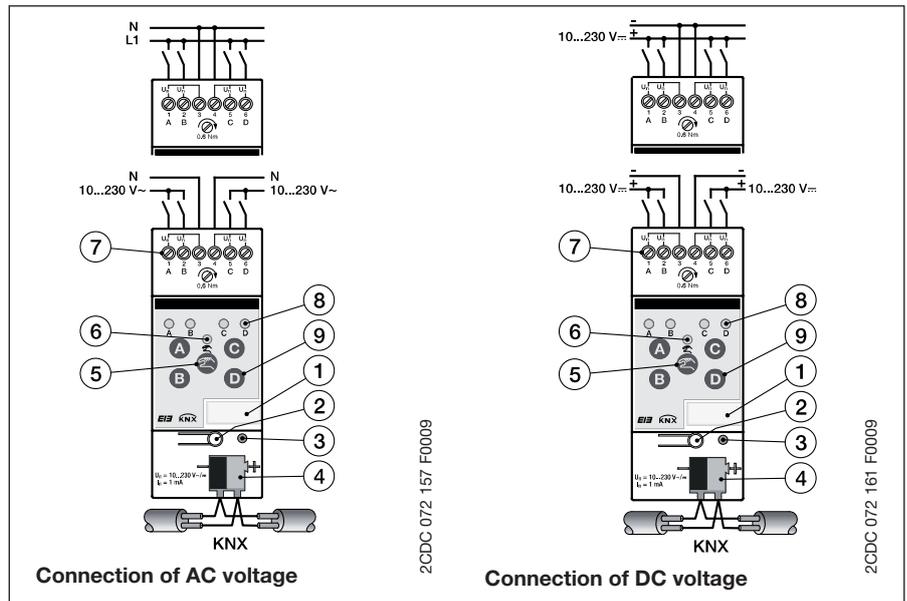
For a detailed description of the application program see „Binary Inputs“ product manual.  
It is available free-of-charge at [www.ABB.de/KNX](http://www.ABB.de/KNX).

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](http://www.abb.com/knx). After import it is available in the ETS under *ABB/Input/Binary input 4-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  
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- 1 Label carrier
- 2 Programming button
- 3 Programming LED
- 4 Bus connection terminal
- 5 Manual operation button

- 6 Manual operation LED
- 7 Connection terminals
- 8 Binary input LED
- 9 Binary input button

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**Important**

When AC voltage is connected to terminals 1, 2, 3 and 4, 5, 6, two separate RCD (earth-leakage circuit breaker) circuits can be connected.

**Important**

Please observe the correct polarity when connecting DC voltage!  
The input cannot be read and processed if incorrectly connected.

**Important**

Use of switch or a push-in inserts with N terminals, in conjunction with the BE/S X.230.2.1 series Binary Inputs are absolutely necessary to ensure malfunction free operation and sufficient illumination of glow lamps on illuminated switches or plug-in inserts.

Dimension drawing  
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