



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.

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.

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.

Technical data

Supply	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
Inputs	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
	Permissible cable length	Maximum 100 m at 1.5 mm ²
Connections	KNX	Via bus connection terminals
	Inputs	Via slot-head screw terminals
Bus connection terminals	Screw terminals	0.2 ... 2.5 mm ² stranded 0.2 ... 4.0 mm ² solid core
	Tightening torque	Maximum 0.6 Nm
Operating and display elements	<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
Enclosure	IP 20	To DIN EN 60 529
	Safety class	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 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

ABB i-bus® KNX

Binary Input with manual operation,
4-fold, 230 AC/DC, MDRC, 2CDG 110 091 R0011

Installation	On 35 mm mounting rail	To EN 60 715
Mounting position	As required	
Weight	0.1 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 4.230.2.1	Binary 4f 23021/...*	43	254	254
* ... = current version number of the application program				

Note

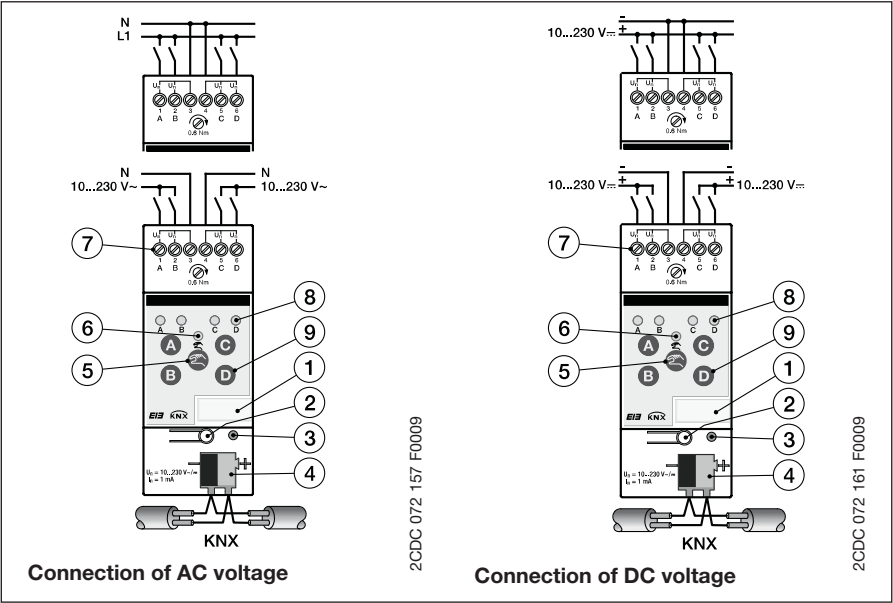
For a detailed description of the application program see „Binary Inputs“ product manual.
It is available free-of-charge at www.ABB.de/KNX.

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 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
BE/S 4.230.2.1



- 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

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.

Dimension drawing
BE/S 4.230.2.1