ABB i-bus® EIB / KNX

Binary Input, 8-fold, 24 V AC/DC, MDRC
BE/S 8.24.1, 2CDG 110 055 R0011

2CDC 071 009 F0005

The 8-fold Binary Input BE/S 8.24.1 with manual operation is a rail mounted device for insertion in the distribution board. The device is suitable for reading out 0...32 V AC/DC signals. The inputs are independent of one another.

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, bus	< 12 mA
	– Power consumption	Max. 1.1 W
	– Leakage loss, bus	Max. 250 W
Inputs	– Number	8 individual
	– Permitted voltage range U_n	0...32 V AC/DC
	– Input current I_n	Max. 5 mA
	– Signal level for 0-signal	0...4 V AC/DC
	– Signal level for 1-signal	9...32 V AC/DC
	– Permitted cable lengths	m 100 m with 1.5 mm²
Connections	– EIB / KNX	via bus connection terminal, without screws
	– Inputs	using 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)	for assignment of the physical address
	– Programming button (2)	for assignment of the physical address
	– Channel LED (8)	1 LED per channel for display of the input state
	– Manual operation button (9)	1 button per channel for changing the input state
	– Manual/Automatic LED (Man.) (6)	1 LED for display of the manual/automatic mode states
	– Manual/Automatic button (Man.) (5)	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
Environment conditions	– max. humidity	93%, without bedewing
Design	– Modular installation device (MDRC)	Modular installation device, ProM
	– 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 rail	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	Certification
CE mark	– in accordance with the EMC guideline and low voltage guideline	

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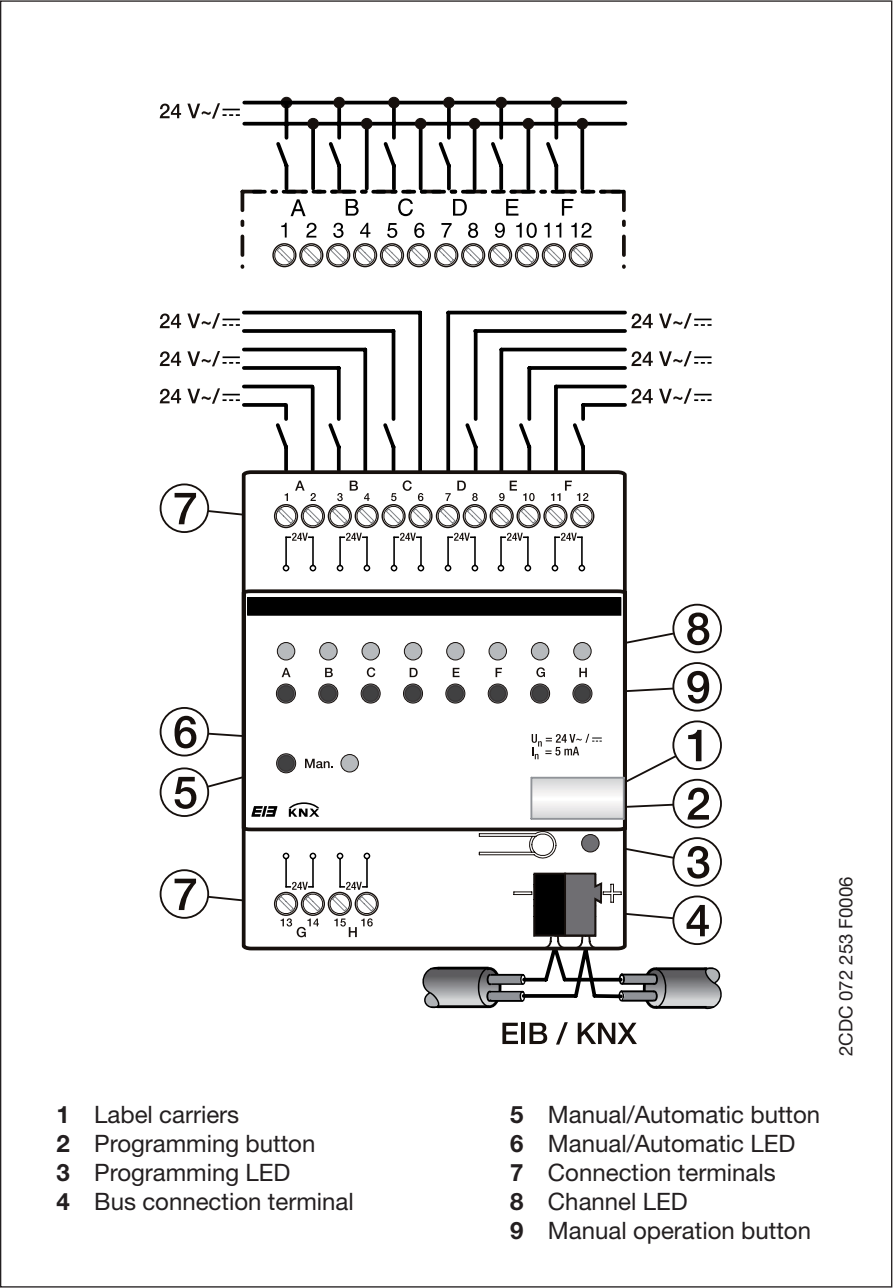| Application program	Max. number of communication objects	Max. number of group addresses	Max. number of associations
Binary 8f 24M/1	83	254	254

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.
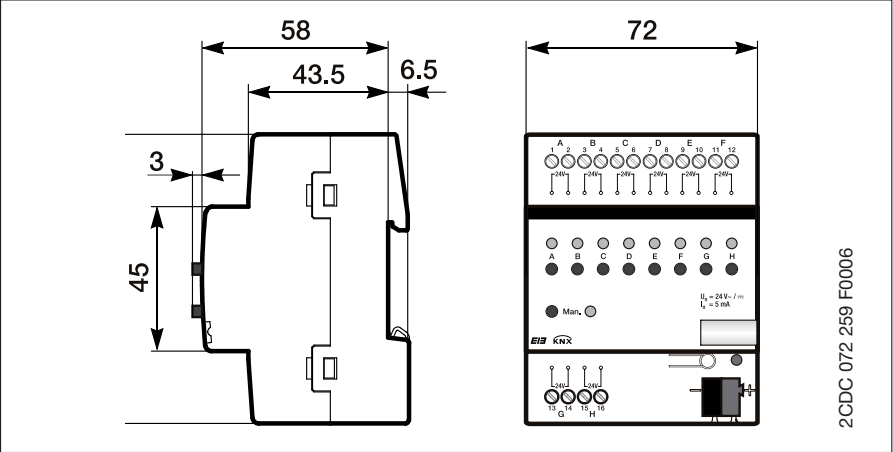
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Circuit diagram

2CDC 072 253 F0006

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

Dimension drawing

2CDC 072 259 F0006

Notes