

Operating instructions Technical Parameters



multisys D2-ESES Interfaces for 2x KBR eBus



In our download centre you will find the appropriate instructions for KBR devices.
<https://www.kbr.de/en/download/operating-instructions/>

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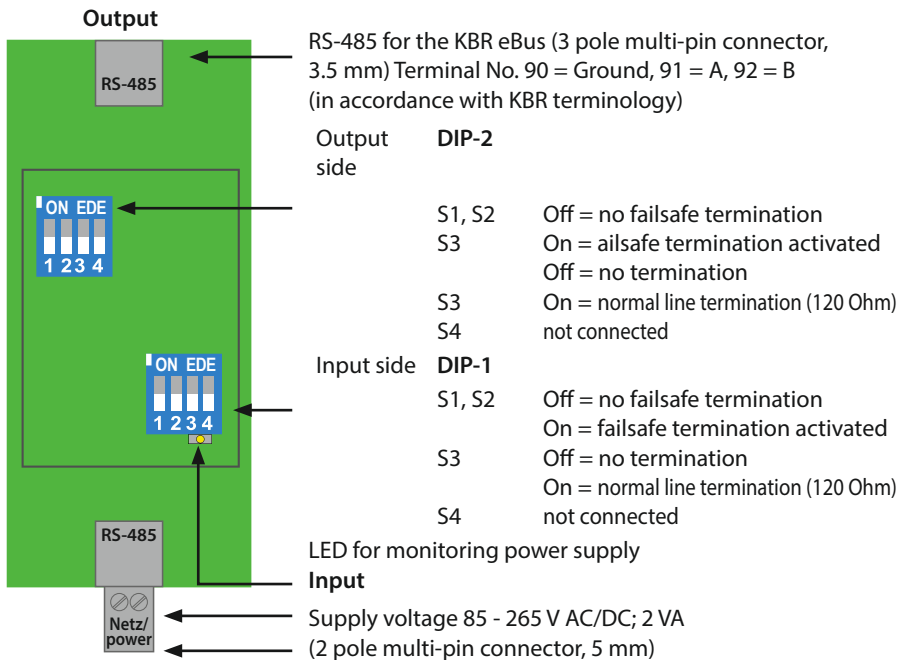
1 multisys D2-ESES

The multisys D2-ESES is used as a bus amplifier or star coupler for the KBR eBUS. The input and output sides are galvanically separated from each other.

The multisys D2-ESES is equipped with a power LED for supply voltage monitoring, a power supply (85 to - 265 V AC/DC; 2 VA) and is suitable for wall mounting on a 7.5mm deep DIN rail, in accordance with DIN EN50022 (for distribution board mounting)..

2 Interfaces 2x KBR eBus RS-485 (multisys D2-ESES)

The RS-485 interfaces are set to the KBR eBus parameters 38400 baud, 8 data bits, parity even, 1 stop bit. They can be terminated using two 4-fold DIP switches (terminating resistors are integrated into the multisys)



NOTE

The failsafe termination can only be activated once per bus segment!

3 Operating modes

The multisys D2-ESES can be used as a bus amplifier for line expansions or as a star coupler for stubs.

4 Bus amplifier

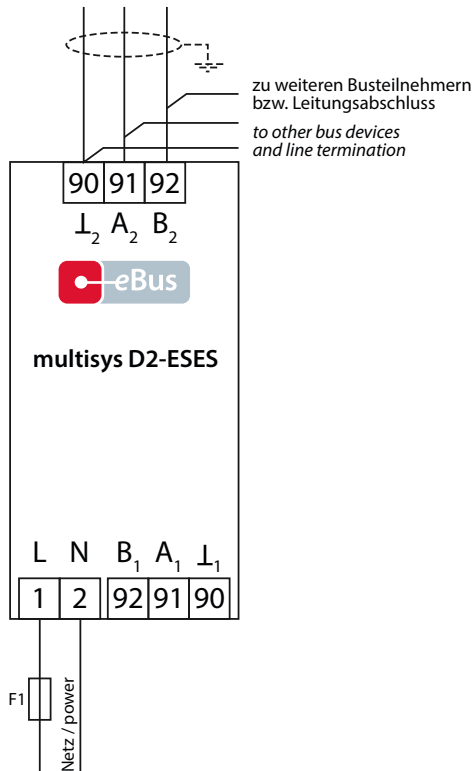
When used as a bus amplifier, the terminating resistors at the input and output side have to be activated.

5 Star coupler

Usually, star networks are not permitted in RS-485 networks. The multisys D2-ESES enables you to create a branch.

When used as a star coupler, the terminating resistor at the input side has to be deactivated, and the one at the output side activated.

6 Connection diagram



7 Technical Data

Power Supply		
Power Supply	85 - 265 V AC/DC ; <10 VA	
Electrical connection		
Connection elements	Push-in Terminal	
Permissible cross section of the connection lines	power Supply 2,5 mm ² , bus connection 1,5mm ²	
Input Control voltage	Fuse	max. 6 A
KBR eBus - connection multisys D2-ESES	Connecting materials	For proper operation, please only use shielded twisted-pair cables; e.g. I-Y(St)Y EIB 2x2x0.8
KBR eBus connection multisys D2-ESES input	over RS485	Device Terminal 90 (L1) Terminal 91 (A1) Terminal 92 (B1)
KBR eBus connection multisys D2-ESES output	over RS485	Device Terminal 90 (L2) Terminal 91 (A2) Terminal 92 (B2)
Mechanical Data		
Top hat rail device	Housing measures	90 x 36 x 61 mm (H x W x D)
	Mounting type	Wall mounting on DIN rail 7.5 mm deep, in accordance with DIN EN 50022 Suitable for distribution board mounting
	Weight	approx. 120 g
Standards and Miscellaneous		
Environmental conditions	Standards	DIN EN 60721-3-3/A2: 1997-07; 3K5+3Z11; (IEC721-3-3; 3K5+3Z11)
	Operating temp.	-5 °C ... +60 °C
	Humidity	5 % ... 95 %
	Storage temp.	-25 °C ... +70 °C
Electrical safety	Standards	DIN EN 61010-1 : 2002-08;
	Protection class	I in accordance with DIN EN 61010-1 : 2002-08
	Mode of protection	IP20 in accordance with DIN EN 40050 Part 9: 1993-05
	Electromagnetic compatibility	DIN EN 61000-6-3: 2005-06; (IEC 61000-6-3) DIN EN 61000-6-2: 2006-03; (IEC 61000-6-2)

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