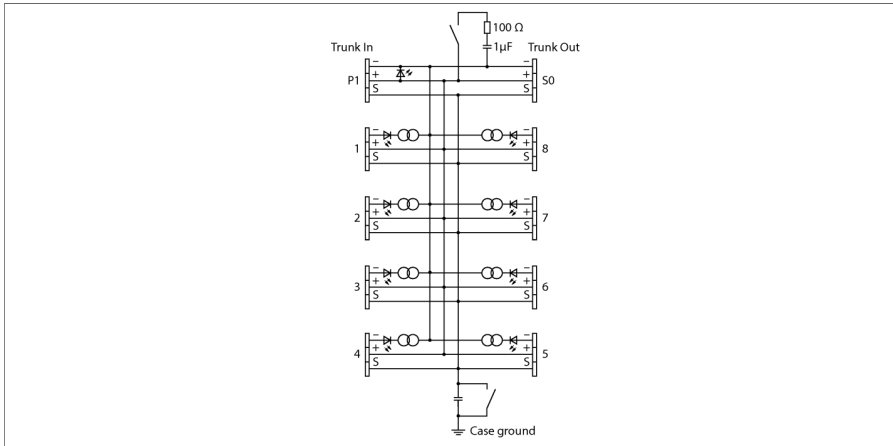


FOUNDATION fieldbus and PROFIBUS-PA IP20 junction box, 8-channel JRBS-40SC-8R/EX



The 8-channel Ex junction box JRBS-40SC-8R/EX is designed for fieldbus systems according to IEC 61158-2, i.e. it is suited for both FOUNDATION™ fieldbus as well as PROFIBUS-PA.

The junction box is equipped with an adjustable short-circuit current limiter. As maximum current limit, the following values can be selected together for all channels via a rotary coding switch: 30, 35, 45 and 60 mA.

The housing is made of powder-coated aluminium and is IP20 rated.

The junction box is equipped with an acti-vatable terminating resistor for the bus. The switch is integrated in the housing on the board.

Shielding and housing can be connected directly via a second switch which is also located on the board.

Note: It must be ensured that there is sufficient equipotential bonding in the system. The device is connected to the equipotential bonding via the housing's M5 x 1 grounding bolt.

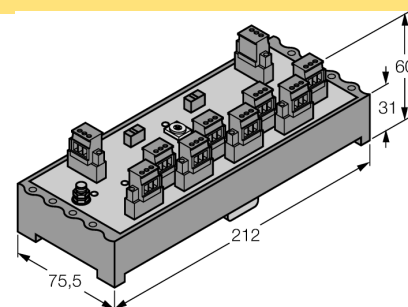
Accessories: To increase the degree of protection, there are various aluminium and stainless steel housings with IP6x rating and various cable glands available on request.



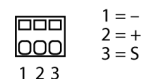
- Junction box for DIN rail mounting
- Short-circuit protection per drop line/spur
- Switch-in terminating resistor
- Cable shielding: Capacitive or direct connection with housing potential selectable via switch
- aluminium housing
- Entity and FISCO compliant according to IEC 60079-11

Type	JRBS-40SC-8R/EX
ID	6611461
Fieldbus standard	IEC 61158-2
Operating voltage	12...32 VDC
Current self-consumption	≤ 7 mA
Voltage drop	≤ 0.3V
Short-circuit protection	≤ 30, ≤ 35, ≤ 45, ≤ 60 mA
Displays/Operating elements	
Operational readiness	1 × green
Short-circuit message	8 x red
Ex approval acc. to conformity certificate	PTB 05 ATEX 2002
Device designation	Ex II 2 G Ex ib IIC/IIB T4
Device marking	Ex II 2(1) G Ex ia IIC/IIB T4
	Ex II 2 G (2D) Ex ib [ibD] IIB T4
	Ex II 2(1) G (1D) Ex ia [iaD] IIB T4
	FISCO / Entity field device
Entity Parameter	
Max. output voltage U_o	≤ 24 V
Max. output current I_o	≤ 250 mA
Max. output power P_o	≤ 2560 mW
Max. input voltage U_i	≤ 24 V
Max. input current I_i	≤ 250 mA
Max. input power P_i	≤ 2560 mW
FISCO parameter according to IEC 60079-11	
Max. output voltage U_o	≤ 17.5 V
Max. output current I_o	≤ 380 mA
Max. output power P_o	≤ 5320 mW
Max. input voltage U_i	≤ 17.5 V
Max. input current I_i	≤ 380 mA
Max. input power P_i	≤ 5320 mW
External inductance/capacitance L/C,	Trunk (In/Out): negligible / ≤ 5.00 nF per field current circuit: negligible / ≤ 0.47 nF Σ field current circuits: negligible / ≤ 5.00 nF
Ex approval acc. to conformity certificate	TURCK Ex-13002H X
Device designation	Ex II 3 G Ex nA IIC T4 Gc
Device designation	Ex II 3 G Ex ic IIC T4 Gc
Electrical connection	Removable terminal block, reverse polarity protected, screw connection
Segment IN	8 x screw connection
Segment OUT	1 x screw connection
Spur line	1 x screw connection
Terminal cross-section	0.2...2.5 mm² (AWG: 24...14)
Earthing bolt	M5 x 1

Dimensions



Terminal assignment



Protection class	IP20
MTTF	117 years acc. to SN 29500 (Ed. 99) 40 °C
Ambient temperature	-25...+70 °C
Housing material	Aluminium
Housing color	Black
Dimensions	212 x 31 x 75.5 mm
Connection mode	snap-fit on DIN rail (DIN 60715)