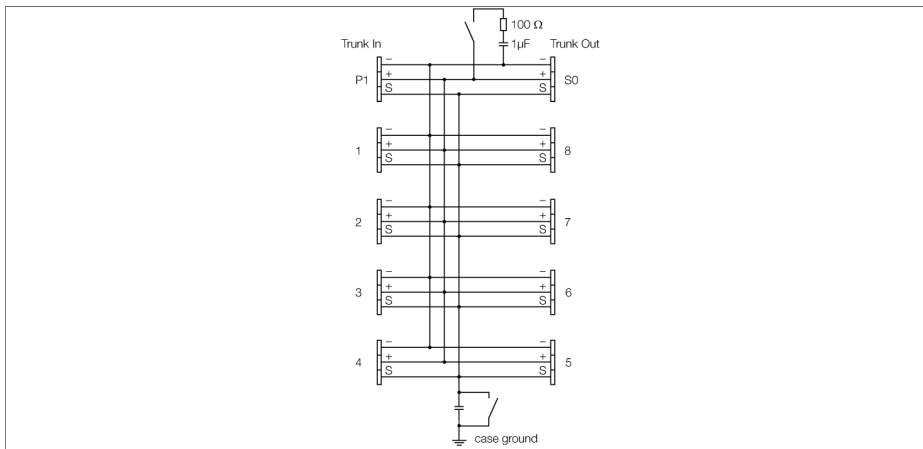


FOUNDATION™ fieldbus and PROFIBUS-PA
IP20 junction box, 8-channel
JRBS-40-8C/EX

TURCK

Industrial
Automation



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

The housing is made of aluminium and features protection degree IP20.

The junction box is equipped with a selectable bus terminating resistor. The according switch is integrated in the housing on the board.

The shield is capacitively coupled to the housing potential. A switch for direct coupling of the shield and housing is implemented.

Attention: Sufficient equipotential bonding of the installation must be ensured. The device is connected via the bolt of the housing to the system's potentializer.

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.

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

FOUNDATION™ fieldbus and PROFIBUS-PA

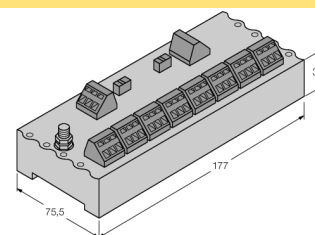
IP20 junction box, 8-channel

JRBS-40-8C/EX

TURCK

Industrial
Automation

Dimensions



Terminal assignment



1 2 3

1 = -
2 = +
3 = S

Type code	JRBS-40-8C/EX
Ident no.	6611450
Fieldbus standard	IEC 61158-2
Operating voltage range	9...32 VDC
Ex approval acc. to conformity certificate	PTB 05 ATEX 2002
Entity Parameter	
Max. output voltage U_o	$\leq 24 \text{ V}$
Max. output current I_o	$\leq 250 \text{ mA}$
Max. output power P_o	$\leq 2560 \text{ mW}$
Max. input voltage U_i	$\leq 24 \text{ V}$
Max. input current I_i	$\leq 250 \text{ mA}$
Max. input power P_i	$\leq 2560 \text{ mW}$
FISCO parameter acc. to IEC 60079-11	
Max. output voltage U_o	$\leq 17.5 \text{ V}$
Max. output current I_o	$\leq 380 \text{ mA}$
Max. output power P_o	$\leq 5320 \text{ mW}$
Max. input voltage U_i	$\leq 17.5 \text{ V}$
Max. input current I_i	$\leq 380 \text{ mA}$
Max. input power P_i	$\leq 5320 \text{ mW}$
Internal inductance/capacitance L/C,	Trunk (In/Out): negligible / $\leq 5.00 \text{ nF}$ per field current circuit: negligible / $\leq 0.47 \text{ nF}$ Σ field current circuits: negligible / $\leq 5.00 \text{ nF}$
Device designation	II 2 G Ex ib IIC/IIB T4 II 2(1) G Ex ia IIC/IIB T4 II 2 G (2D) Ex ib [ibD] IIB T4 II 2(1) G (1D) Ex ia [iaD] IIB T4 FISCO / Entity field device
Ex approval acc. to conformity certificate	TURCK Ex-13002H X
Device designation	II 3 G Ex nA IIC T4 Gc
Device designation	II 3 G Ex ic IIC T4 Gc
Electrical connection	cage clamp terminals
Terminal cross-section	2.5 mm ²
Earthing bolt	M5 x 1
Protection class	IP20
MTTF	705 years acc. to SN 29500 (Ed. 99) 40 °C
Ambient temperature	-25...+70 °C
Housing material	Aluminium
Housing color	Black
Dimensions	177x 31x 75.5 mm
Connection mode	snap-fit on DIN rail (DIN 60715)