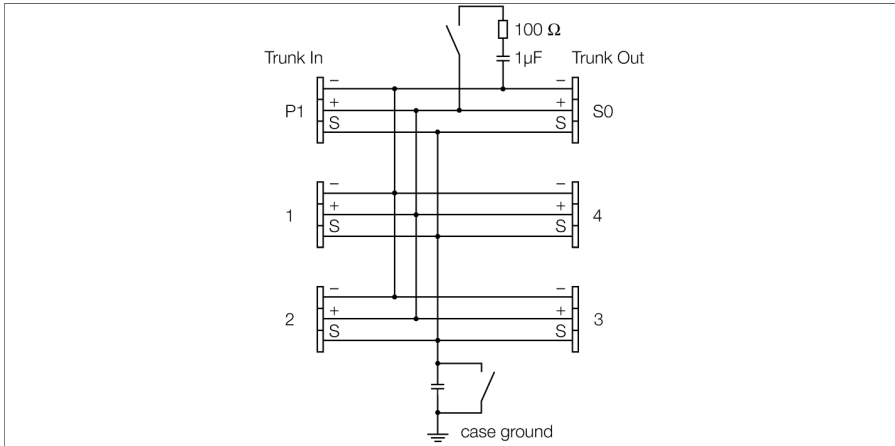


FOUNDATION fieldbus and PROFIBUS-PA IP20 junction box, 4-channel JRBS-40-4C/EX



The 4-channel Ex junction box JRBS-40-4C/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 housing is made of powder-coated aluminium and is IP20 rated.

The junction box is equipped with an activatable 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.

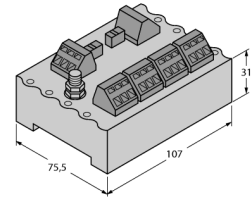
Note: It must be ensured that there is sufficient equipotential bonding in the system. The device is connected to the equipotential bonding via the housing's M5 x 1 grounding bolt.

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
- 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

Dimensions



Terminal assignment



1 = -
2 = +
3 = S

1 2 3

| | |
|--|--|
| Type | JRBS-40-4C/EX |
| ID | 6611448 |
| Fieldbus standard | IEC 61158-2 |
| Operating voltage | 9...32 VDC |
| Ex approval acc. to conformity certificate | PTB 05 ATEX 2002 |
| Device designation | Ⓢ II 2 G Ex ib IIC/IIB T4 |
| Device marking | Ⓢ 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 |
| 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 / ≤ 0.82 nF Σ field current circuits: negligible / ≤ 5.00 nF |
| 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 | Spring type terminals |
| Segment IN | 4 x Cage clamp terminal |
| Segment OUT | 1 x Cage clamp terminal |
| Spur line | 1 x Cage clamp terminal |
| Terminal cross-section | 0.2...2.5 mm ² (AWG: 24...14) |
| 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 | 107 x 31 x 75.5 mm |
| Connection mode | snap-fit on DIN rail (DIN 60715) |