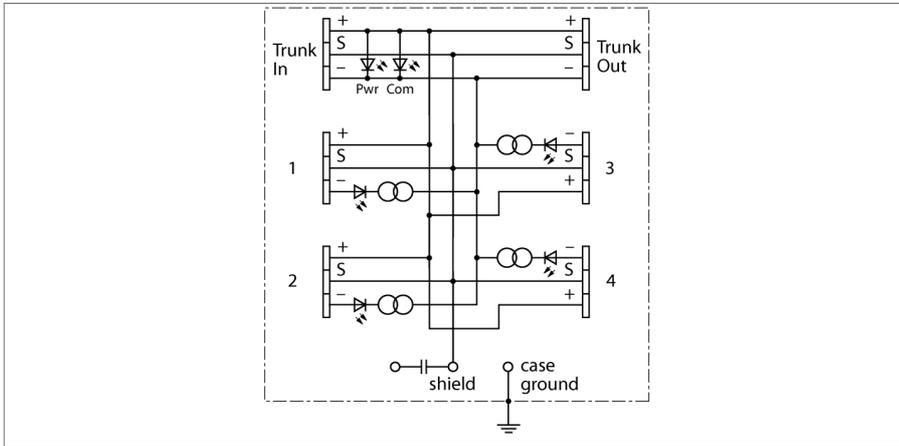


FOUNDATION fieldbus and PROFIBUS-PA IP20 Junction Box with Short-circuit Protection, 4-channel JRBS-40DC-4RV



The junction box is designed for fieldbus systems acc. to IEC 61158-2, i.e. it is suited for both FOUNDATION™ fieldbus and PROFIBUS-PA. When connected to a suitable power supply unit, it can also be used in Ex applications.

The junction box features a short-circuit limiter at each drop line/spur ($\leq 51\text{mA}$). No more than one field device should be connected to each drop line/spur.

The housing is made of anodized extruded aluminum in IP20.

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.

The shielding is established via the 3-pin screw terminals and is internally connected with the M5 threaded bolt for equipotential bonding. A second M5 threaded bolt is available for capacitive shielding. Both bolts are not connected to the housing.

Accessories: For a higher protection rating, we offer different aluminium and stainless housings in IP6x with various cable glands.

- Junction box for DIN rail mounting
- Short-circuit protection per drop line/spur
- Pre-assembled terminating resistor: JRBS-40TR (sold separately)
- Cable shielding: Capacitive or direct connection established via two M5 threaded bolts
- Aluminium housing
- Entity and FISCO compliant according to IEC 60079-11

Dimensions

| | |
|--|--|
| Type | JRBS-40DC-4RV |
| ID | 6611832 |
| Fieldbus standard | IEC 61158-2 |
| Operating voltage | 9...32 VDC min. 10.3 VDC acc. to FF-846 |
| Current self-consumption | ≤ 10 mA |
| Voltage drop | ≤ 1V, (trunk/spurs) |
| Voltage drop | ≤ 0.005 V, (trunk in/out) |
| Trunk-to-trunk current | ≤ 2 A |
| Output circuits | Field |
| Output current | ≤ 41 mA |
| Short-circuit protection | ≤ 51 mA |
| Displays/Operating elements | |
| Operational readiness | 1 × green |
| Short-circuit message | 4 × red |
| Bus communication | 1 × yellow |
| Ex approval acc. to conformity certificate | IECEX FMG 15.0020X |
| Ex approval acc. to conformity certificate | FM 15 ATEX 0036 X |
| Ex approval acc. to conformity certificate | FM 16 ATEX 0025 X |
| FM approval | FM 16 US 0073 X |
| Electrical connection | Removable terminal block, reverse polarity protected, screw connection |
| Terminal cross-section | 0.2...2.5 mm ² (AWG: 24...14) |
| Earthing bolt | M5 x 1 |
| Protection class | IP20 |
| MTTF | 117 years acc. to SN 29500 (Ed. 99) 40 °C |
| Ambient temperature | -50...+70 °C |
| Storage temperature | -60...+85 °C |
| Housing material | Aluminium |
| Housing color | Black/yellow |
| Dimensions | 113.4 x 75.5 x 49 mm |
| Connection mode | snap-fit on DIN rail (DIN 60715) |

