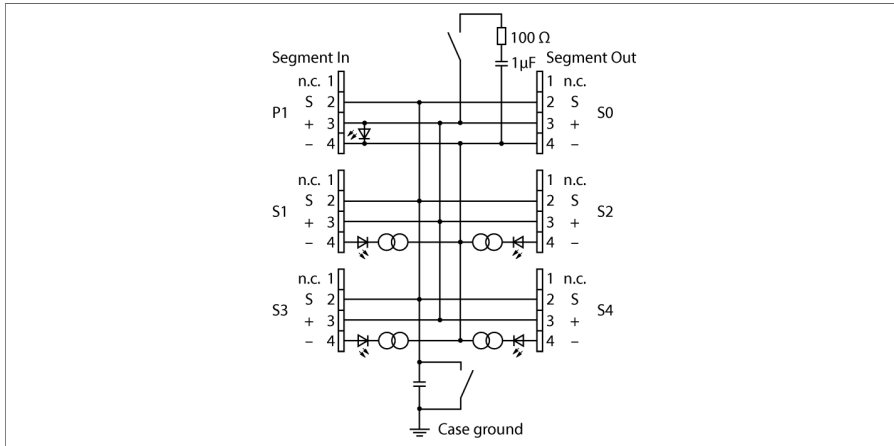# IP66 Junction Box, 6-Channel FOUNDATION Fieldbus and PROFIBUS-PA JBBS-49SC-T435

The 4-channel junction box JBBS-49SC-T435 is designed for FOUNDATION™ fieldbus systems.

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 stainless steel housing is IP66 rated.

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

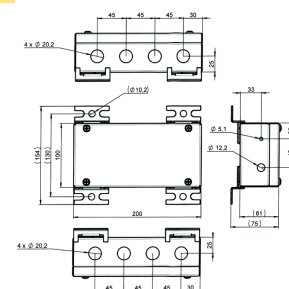Condensation in the housing is prevented by a breather.

Shielding and housing can be conected 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 bold.

- Junction box for wall mounting with PVC cable glands M20 x 1.5
- Short-circuit protection per drop line/spur
- Integrated terminating resistor (activatable)
- Cable shielding: Capacitive or direct connection to housing potential selectable via switch
- Isolated support terminal for optional protective conductor incorporated in cable
- Stainless steel housing
- Pressure compensation element protects against condensation
- Connection of the housing potential via M5 x 1 bolt

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Type	JBBS-49SC-T435
ID	6884283

Fieldbus standard	IEC 61158-2

Operating voltage U_B	12…32 VDC
Current self-consumption	$\leq$ 7 mA
Voltage drop	$\leq$ 0.3V

Short-circuit protection	$\leq$ 30, $\leq$ 35, $\leq$ 45, $\leq$ 60 mA

Displays/Operating elements	
Operational readiness	1 × green
Short-circuit message	4 x red

Electrical connection	Cable gland
Segment IN	1 x M20 x 1.5 (Ø 7…13 mm)
Segment OUT	1 x M20 x 1.5 (Ø 7…13 mm)
Spur line	4 x M20 x 1.5 (Ø 7…13 mm)
Terminal cross-section	0.2…2.5 mm² (AWG: 24…14)
Earthing bolt	M5 x 1

Protection class	IP66
MTTF	117 years acc. to SN 29500 (Ed. 99) 40 °C
Ambient temperature	-25…+60 °C
Housing material	Stainless steel, 1.4301 (AISI 304), Silver
Dimensions	100 x 200 x 61 mm
Connection mode	Wall mounting

Dimensions

Terminal assignment

1 = n.c.
2 = Shield
3 = +
4 = −