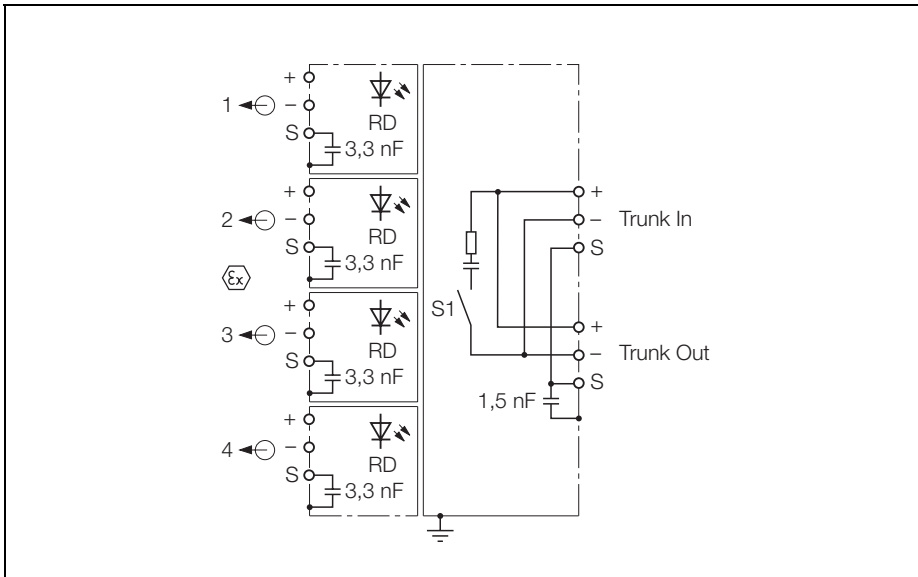


**FOUNDATION™ fieldbus
multibarrier, 4-channel
MBD49-T415/EX**



The 4-channel multibarrier MBD49-T415/EX enables the connection of a large number of field devices to one fieldbus in the Ex-area, according to IEC 61158-2.

The number of field devices to be connected to the multibarrier depends on the current consumption of the single slaves. Up to 32 EEx i field devices can be connected to the bus. The number of slaves can be extended by the EEx e fieldbus supply which can be looped through from multibarrier to multibarrier.

Inputs and outputs of the trunk line feature enhanced safety protection (EEx e) and the outputs to the field devices are intrinsically safe (EEx i).

The multibarrier is equipped with an optional terminating resistor for the bus. This switch is integrated in the housing on the board.

The multibarrier has four LEDs for short-circuit indication, which are located - for each channel separately - on the board, inside the device.

Because of complete galvanic isolation of the

- trunk line to EEx i outputs and between the
 - EEx i outputs,
- safe operation is guaranteed.

- **Entity and FISCO compliant according to IEC TS 60079-27**
- **galvanic isolation between the EEx i outputs and the EEx e bus line, as well as between the EEx i outputs**
- **powder-coated die-cast aluminium housing**
- **pressure compensation element for protection against condensation water**
- **connection of the housing potential via an M5 x 1 bolt**
- **Temperature range: -20...+70 °C (-4...+158 °F)**
- **integrated terminating resistor (switch-in)**
- **cable shielding: capacitive connection to housing potential**
- **output data: 10V/40mA (short-circuit proof)**

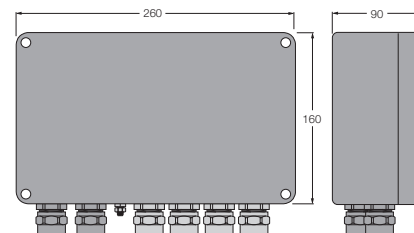
FOUNDATION™ fieldbus multibarrier, 4-channel MBD49-T415/EX

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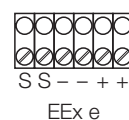
Industrielle
Automation

Type	MBD49-T415/EX
Ident-No.	6611247
Fieldbus standard	IEC 61158-2
Operational voltage range:	16 ... 32 VDC
Current self-consumption	40 mA
Test voltage	input circuits (EEx e) to output circuits (EEx i) for 253 V _{eff} ; output circuits (EEx i) to each other for 60 V _{eff}
Output circuits	
Output current	40 mA
Output voltage	≥ 10 VDC
Short-circuit protection	45 mA
Indication	
Short-circuit message	4 x red
Ex approval acc. to conformity certificate	PTB 04 ATEX 2021
Max. output voltage U _o	14.3 V
Max. output current I _o	268 mA
Max. output power P _o	958 mW
Internal resistance R _i	53.3 Ω
External inductance/capacitance L _i /C _i	negligible
Characteristic	Linear
Device designation	Ⓔ II 2(1 G/D)G EEx m e [ia] IIC T4 FISCO / Entity multibarrier
Electrical connection	
Segment IN	cable glands
Segment OUT	1 x M20 x 1.5 (Ø 10...14 mm); plastic; black
Drop line	1 x M20 x 1.5 (Ø 10...14 mm); plastic; black
Terminal cross-section	4 x M20 x 1.5 (Ø 5...9 mm); plastic; blue
Earthing bolt	2.5 mm ²
	M5 x 1
Degree of protection	IP66
Ambient temperature	-20 ... + 70 °C
Relative humidity	95 %, non condensing
Housing material	powder-coated die-cast aluminium
Housing colour	black/yellow
Dimensions	260 x 160 x 90 mm
Connection mode	wall mounting

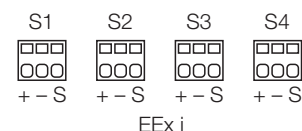
Dimensions



Trunk line



Outputs



Current consumption

