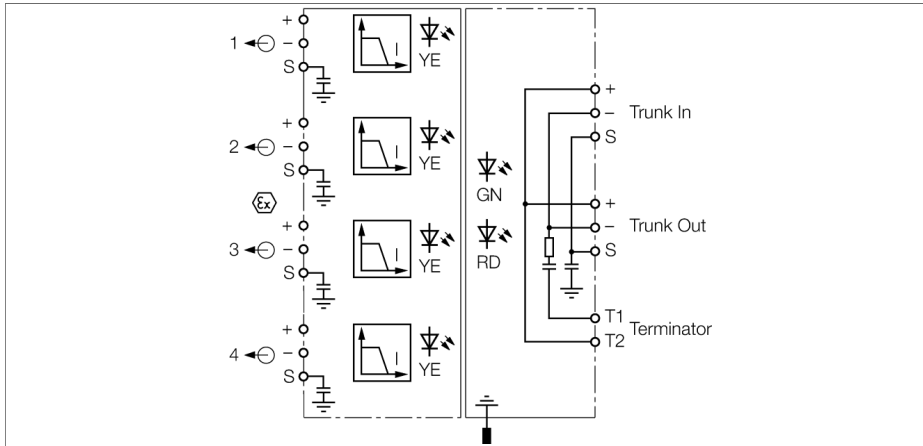


**FOUNDATION™ fieldbus and PROFIBUS-PA
multibarrier, 4 channel
MBD40-T0415/Ex/000**

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

Each multibarrier can take 4 Ex i field devices. Up to 16 Ex i field devices can be connected to the bus. Ex e fieldbus supply (High Power Trunk Concept) which is looped through from multibarrier to multibarrier allows to augment the number of subscribers. In order to limit in-rush currents at the moment of turn-on, the drop lines/spurs are switched on one after the other.

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

The multibarrier is equipped with an activatable terminating resistor for the bus. The terminating resistor is switched on/off by means of a jumper.

Status and error messages of the single spurs are indicated via LEDs at the front.

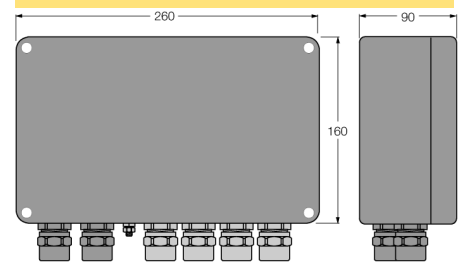
- **FISCO compliant according to IEC 60079-27 and Entity**
- **Galvanically separated Ex e bus cables and Ex i outputs**
- **Temperature range: -20...+70 °C (-4...+158 °F)**
- **Integrated terminating resistor (optional activation)**
- **output data: 10V/40mA (short-circuit proof)**
- **Powder-coated die-cast aluminium housing**
- **Pressure compensation element for protection against condensation**
- **Connection of the housing potential via M5 x 1 bolt**

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Dimensions



Type code	MBD40-T0415/Ex/000
Ident no.	6611757
Fieldbus standard	IEC 61158-2
Operating voltage range	16...32 VDC
Power loss	≤ 1.8 W
Galvanic separation	Input circuit (Ex e) to output circuits (Ex i)
Test voltage	1.5 kV AC
Output circuits	
Output current	≤ 40 mA
Output voltage	≥ 10 VDC
Short-circuit protection	≤ 50mA
Indication	
Operational readiness	1 x green
State/ Fault	1 x red
Short-circuit message	4 x yellow, flashing
Ex approval acc. to conformity certificate	PTB 09 ATEX 1069
Max.output voltage U_o	≤ 15.7 V
Max. output current I_o	≤ 245 mA
Max. output power P_o	≤ 960 mW
Internal inductance/capacitance L/C _i	negligible
Characteristic	linear
Device designation	II 2(1G/D)G Ex eb ib [ia] mb IIC T4 FISCO Power Supply
Electrical connection	4 x 3-pole removable terminal blocks, reverse polarity protected, screw connection
	Cable glands
Segment IN	1 x M20 x 1.5 (Ø 6...13 mm); plastic; black
Segment OUT	1 x M20 x 1.5 (Ø 6...13 mm); plastic; black
Drop line	4 x M20 x 1.5 (Ø 6...13 mm); plastic; blue
Terminal cross-section	0.2...2.5 mm ² (12 ... 24 AWG)
Earthing bolt	M5 x 1
Protection class	IP66
Ambient temperature	-20...+70 °C
Relative humidity	≤ 95 %, non-condensing
Housing material	powder-coated die-cast aluminium
Housing color	black/yellow
Dimensions	260x 160x 90 mm
Connection mode	Wall mounting

**FOUNDATION™ fieldbus and PROFIBUS-PA
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Accessories

Type code	Ident no.	Description	Dimension drawing
VST-BS13	6884032	Closure cap for cable glands, Ø13 mm, PU 10 pcs.	
VSTS24	6900462	Socket spanner for cable glands, SW24	