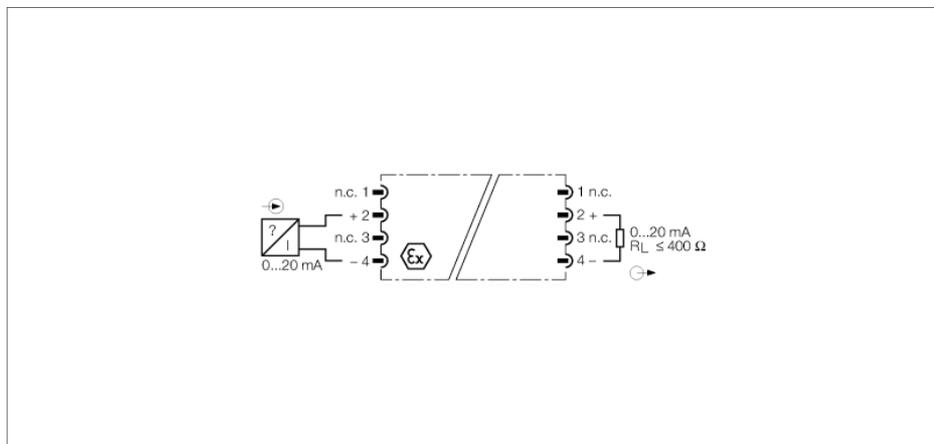




Analog signal isolator 1-channel IMC-AI-11EX-I/L

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The analog data transmitter IMC-AI-11EX-I/L features 1 channel and the input circuit is intrinsically safe. Direct application of the device in zone 2 is possible.

In case of unprotected mounting in zone 2 resp. zone 22 the devices must be protected against mechanical damages of the connectors and the housings with the TURCK cover plate IMC-SG (Ident no.7560016).

The standard current signal is transmitted from the Ex-area to the safe area without attenuation (1:1). The output circuit is equipped with a short-circuit protected power source.

Intrinsically safe analog data transmitters can be connected to the device in the Ex area.

The device is loop-powered.

- Single-channel analog signal isolator with M12x1 male connector
- Intrinsically safe input circuit Ex ia
- Application area acc. to ATEX: II (1) GD, II 3 GD
- Input circuit: 0/4...20mA
- Output circuit: 0/4...20mA
- Galvanic separation of input circuits, output circuits and power supply
- Protection class IP67





Analog signal isolator

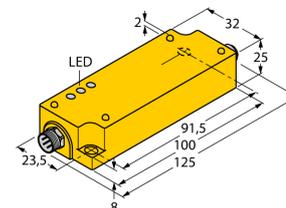
1-channel

IMC-AI-11EX-I/L

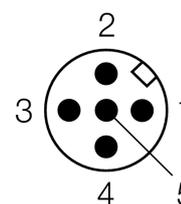
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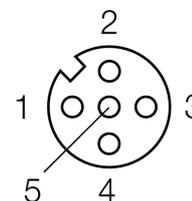
Dimensions



pin configuration M12 connectors



pin assignment female M12 (intrinsically safe end)



Type	IMC-AI-11EX-I/L
Ident-No.	7560004
Nominal voltage	Loop-powered
Power consumption	≤ 3 W
Voltage input	max. 30 VDC
Current input	0...20 mA
Output circuits	
Output current	0...20 mA
Load resistance current output	≤ 0.4 kΩ
Limit frequency	≤ 50 Hz
Rise time (10-90%)	≤ 10 ms
Dropout time (90...10%)	≤ 10 ms
Measuring accuracy	≤ 0.1 % of full scale
Reference temperature	23 °C
Temperature drift	≤ 0.005 % / K
Galvanic separation	
Test voltage	2.5 kV
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553222
Application area	II (1) GD
Protection type	[Ex ia] IIC/IIB
Rated voltage	250 V
Max. input voltage U_i	≤ 27 V
Max. input current I_i	≤ 150 mA
Max. input power P_i	≤ 1000 mW
Internal inductance/capacitance L/C,	negligibly small
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553945 X
Application area	II 3 GD
Protection class for belonging equipment	Ex nA [nL] IIC/IIB T4 bzw. Ex tD A22 IP67 T80°C
Max. input voltage U_i	≤ 27 V
Max. input current I_i	≤ 150 mA
Max. input power P_i	≤ 1000 mW
External inductance/capacitance L/C,	negligibly small
Protection class	IP67
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80°C
Dimensions	100 x 32 x 25 mm
Weight	154 g
Mounting instruction	Mounting on backplane
Housing material	Polycarbonate/ABS
Electrical connection	M12 flange connection