



Analog signal isolator

1-channel

IMC-AI-11EX-I/L



The 1-channel analog signal isolator IMC-AI-11EX-I/L features an intrinsically safe input circuit. The device can be mounted in zone 2.

The device must be protected against mechanical load on connector and housing when mounted in zone 2 or 22. For this, use 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.

- ATEX, FM_{us} , IECEx, TR CU
- Installation in zone 2/22
- Analog signal isolator, 1-channel
- Input circuit: 0/4...20 mA
- Output circuit: 0/4...20 mA
- Complete galvanic isolation
- Input reverse-polarity protected
- Protection class IP67
- Cable with M12 connectors



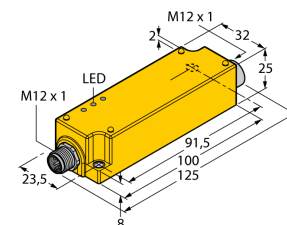


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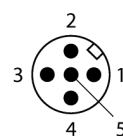
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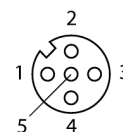
Dimensions



Pin assignment male M12



Pin assignment female M12 (intrinsically safe end)



Type designation	IMC-AI-11EX-I/L
Ident-No.	7560004
Nominal voltage	24 VDC loop-powered
Power consumption	≤ 3 W
Voltage input	max. 30 VDC
Input current	0...20 mA
Output circuits	
Output current	0...20 mA
Load resistance, current output	≤ 0.4 kΩ
Rise time (10...90 %)	≤ 10 ms
Fall time (90...10 %)	≤ 10 ms
Measuring accuracy (including linearity, hysteresis and repeatability)	≤ 0.1 % of full scale
Reference temperature	23 °C
Temperature drift	≤ 0.005 % of full scale/K
Galvanic isolation	
Test voltage	2.5 kV
Important note	For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply.
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553222
Application area	II (1) GD
Ignition protection category	[Ex ia] IIC/IIB
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553945 X
Application area	II 3 GD
Ignition protection type	Ex nA [nL] IIC/IIB T4 or rather Ex tDA 22 IB67 T80°C
Approval	SIL2 acc. to EXIDA FMEDA
Approval	SIL2 acc. to EXIDA FMEDA
Protection class	IP67
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80 °C
Dimensions	100 x 32 x 25 mm
Weight	157 g
Mounting instructions	panel
Housing material	Polycarbonate/ABS
Electrical connection	M12 receptacle
Tightening torque	3.5 Nm

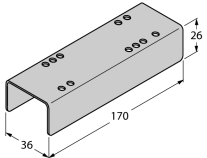


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Accessories

Type code	Ident-No.	Description	Dimension drawing
IMC-SG	7560016	Metal cover plate for IMC modules (required for application in zones 2/22)	
SC-M12/3GD	6900390	Captive safety clip for sensors with M12 x 1 connectors and approval acc. to ATEX II 3 G or II 3 D.	