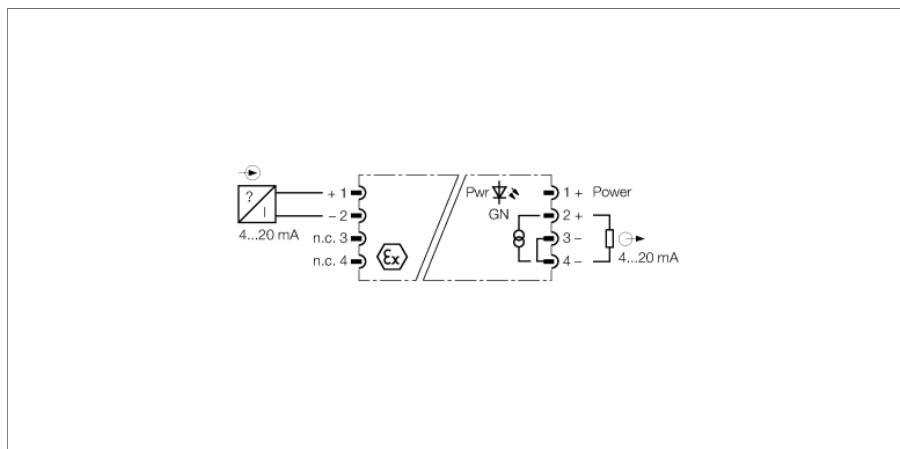




Isolating transducer 1-channel IMC-AIA-11EX-I/24VDC



The 1-channel isolating transducer IMC-AIA-11Ex-i/24VDC features an intrinsically safe input circuit. The device can be mounted in zone 2.

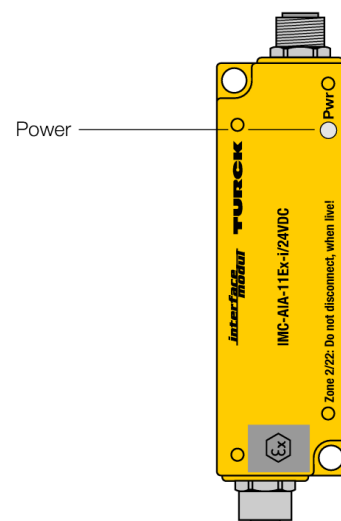
The device must be protected against mechanical load on connector and housing when mounted in zone 2 or 22. For this, use the TURCK cover plate IMC-SG (Ident no. 7560016).

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 designed for a 24 VDC supply. A green LED indicates operational readiness.

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



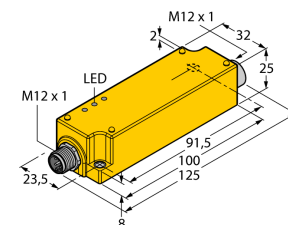


Isolating transducer

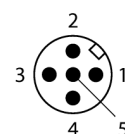
1-channel

IMC-AIA-11EX-I/24VDC

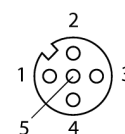
Dimensions



Pin assignment male M12



Pin assignment female M12 (intrinsically safe end)

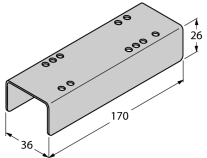


Type designation	IMC-AIA-11EX-I/24VDC
Ident-No.	7560009
Nominal voltage	24 VDC
Operating voltage range	20...30 VDC
Power consumption	≤ 1.5 W
Transmitter connection	
Supply voltage	≤ 14 V / 20 mA
Current	25 mA
Input current	4...20 mA
Output circuits	
Output current	0...20 mA
Load resistance, current output	≤ 0.5 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 553644
Application area	II (1) GD
Ignition protection category	[Ex ia] IIB
Ex approval acc. to conformity certificate	TÜV 07 ATEX 554129 X
Application area	II 3G, II 3D
Ignition protection type	Ex nA [nL] IIB/IIC T4 or rather Ex tD A22 IP67 T 80°C Dc
Characteristic	trapezoidal
Approval	SIL2 acc. to EXIDA FMEDA
Approval	SIL2 acc. to EXIDA FMEDA
Indication	
Operational readiness	green
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



Isolating transducer
1-channel
IMC-AIA-11EX-I/24VDC

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.	