



Analog Signal Isolator

1-channel

IMC-AO-11EX-I/L



The 1-channel analog signal isolator IMC-AO-11Ex-i/L features an intrinsically safe output 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 normalized current signal is transmitted, galvanically isolated 1:1, from the non-Ex to the Ex-area. The output circuit is equipped with a short-circuit proof power source.

Intrinsically analog actuators like I/P converters (e.g. at control valves) or displays can be applied 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





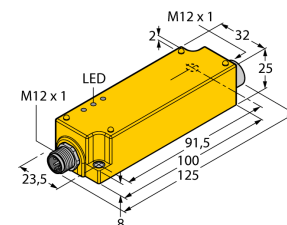
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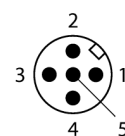
IMC-AO-11EX-I/L

Type designation Ident-No.	IMC-AO-11EX-I/L 7560006
Nominal voltage Power consumption	24 VDC loop-powered ≤ 3.5 W
Voltage input Input current	max. 30 VDC 0...20 mA
Output circuits Output current Load resistance, current output	0...20 mA ≤ 0.4 kΩ
Rise time (10...90 %) Fall time (90...10 %) Measuring accuracy (including linearity, hysteresis and repeatability) Reference temperature Temperature drift	≤ 10 ms ≤ 10 ms ≤ 0.1 % of full scale 23 °C ≤ 0.005 % of full scale/K
Galvanic isolation Test voltage	2.5 kV
Important note Ex approval acc. to conformity certificate Application area Ignition protection category Ex approval acc. to conformity certificate Application area Ignition protection type Characteristic	For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply. TÜV 07 ATEX 553223 II (1) GD [Ex ia] IIC/IIB Turck Ex-13019HX II 3G, II 3D Ex nA [nL] IIC/IIB T4 or rather Ex tD A22 IP67 T80°C linear
Approval Approval	SIL2 acc. to EXIDA FMEDA SIL2 acc. to EXIDA FMEDA
Protection class Ambient temperature Storage temperature Dimensions Weight Mounting instructions Housing material Electrical connection Tightening torque	IP67 -25...+70 °C -40...+80 °C 100 x 32 x 25 mm 120 g panel Polycarbonate/ABS M12 receptacle 3.5 Nm

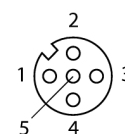
Dimensions



Pin assignment male M12



Pin assignment female M12 (intrinsically safe end)



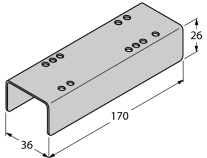


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Accessories

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.	