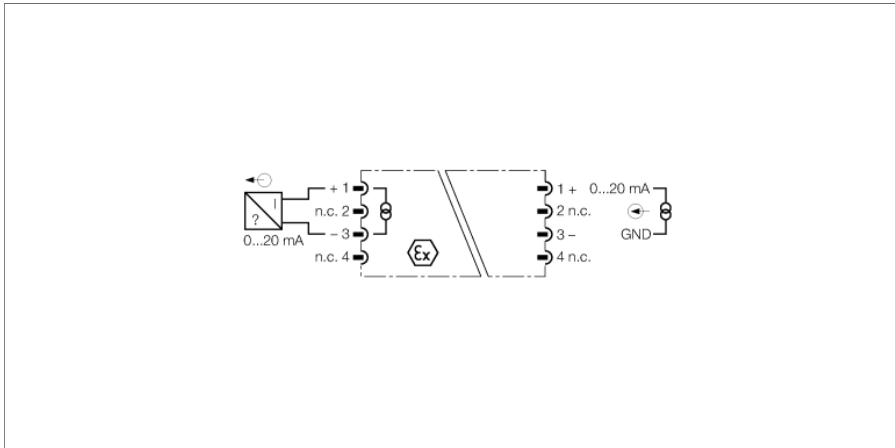




**Analog signal isolator**  
**1-channel**  
**IMC-AO-11EX-I/L**

**TURCK**

Industrial  
Automation



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 standard current signal is galvanically isolated and transmitted unattenuated (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, IECEx, GOST
- Zone 2/22
- SIL 2
- Analog signal isolator with M12 x 1 males, 1-channel
- Input circuit: 0/4...20 mA
- Output circuit: 0/4...20 mA
- Complete galvanic isolation
- Protection class IP67



# Analog signal isolator

## 1-channel

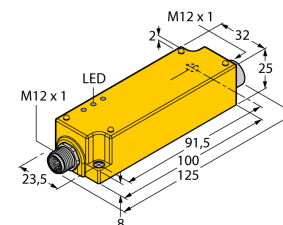
### IMC-AO-11EX-I/L

**TURCK**

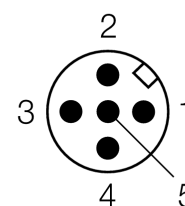
Industrial  
Automation

<b>Type code</b>	IMC-AO-11EX-I/L															
Ident no.	7560006															
<b>Nominal voltage</b>	24 VDC loop-powered															
Power consumption	≤ 3.5 W															
<b>Voltage input</b>	max. 30 VDC															
Current input	0...20 mA															
<b>Output circuits</b>																
Output current	0...20 mA															
Load resistance current output	≤ 0.4 kΩ															
<b>Rise time (10-90%)</b>	≤ 10 ms															
Dropout time (90...10%)	≤ 10 ms															
Measuring accuracy	≤ 0.1 % of full scale															
Reference temperature	23 °C															
Temperature drift	≤ 0.005 % / K															
<b>Galvanic isolation</b>																
Test voltage	2.5 kV															
<b>Ex approval acc. to conformity certificate</b>	TÜV 07 ATEX 553223															
Application area	II (1) GD															
Protection type	[Ex ia] IIC/IIB															
Max. values:	female M12 connection 1+3															
Max. output voltage $U_o$	≤ 13.3 V															
Max. output current $I_o$	≤ 97 mA															
Max. output power $P_o$	≤ 322 mW															
Characteristic	linear															
Rated voltage	250 V															
Internal inductance/capacitance L/C,	negligibly small															
External inductance/capacitance L/C,																
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Lo [mH]	2	0.2	2	0.2												
Co [nF]	420	910	2700	5500												
<b>Ex approval acc. to conformity certificate</b>	TÜV 07 ATEX 553946 X															
Application area	II 3G, II 3D															
Protection type	Ex nA [nL] IIC/IIB T4 or rather Ex tD A22 IP67															
	T80°C															
Max. values:	female M12 connection: 1+3															
Max. output voltage $U_o$	≤ 13.3 V															
Max. output current $I_o$	≤ 97 mA															
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Co [nF]	510	1200	2900	5800												
<b>Approval</b>	SIL2 acc. to EXIDA FMEDA															
MTTF	700 years acc. to SN 29500 (Ed. 99) 40 °C															
<b>Protection class</b>	IP67															
Ambient temperature	-25...+70 °C															
Storage temperature	-40...+80°C															
Dimensions	100 x 32 x 25 mm															
Weight	120 g															
Mounting instruction	Mounting on backplane															
Housing material	polycarbonate/ABS															
Electrical connection	M12 flange connection															
Tightening torque	3.5 Nm															

### Dimensions



### Pin assignment male M12



### Pin assignment female M12 (Ex side)

