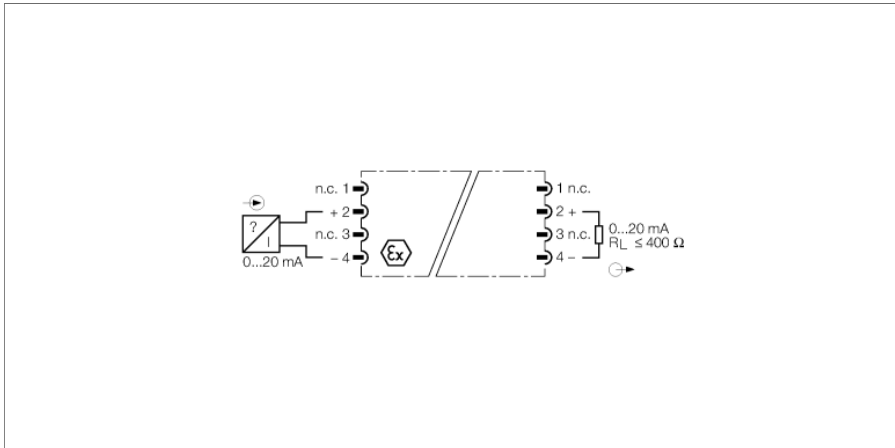




**Analog signal isolator**  
**1-channel**  
**IMC-AI-11EX-I/L**

**TURCK**

Industrial  
Automation



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, 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

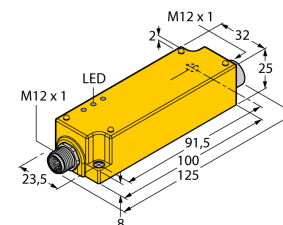
### IMC-AI-11EX-I/L

**TURCK**

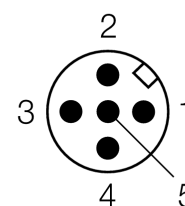
Industrial  
Automation

<b>Type code</b>	IMC-AI-11EX-I/L
Ident no.	7560004
<b>Nominal voltage</b>	24 VDC loop-powered
Power consumption	≤ 3 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 553222
Application area	II (1) GD
Protection type	[Ex ia] IIC/IIB
Max. values:	female M12 connection: 2+4
Max. input voltage $U_i$	≤ 27 V
Max. input current $I_i$	≤ 150 mA
Max. input power $P_i$	≤ 1000 mW
Rated voltage	250 V
Internal inductance/capacitance L/C,	negligibly small
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553945 X
Application area	II 3 GD
Protection type	Ex nA [nL] IIC/IIB T4 or rather Ex tDA 22 IB67 T80°C
Max. values:	female M12 connection: 2+4
Max. input voltage $U_i$	≤ 27 V
Max. input current $I_i$	≤ 150 mA
Max. input power $P_i$	≤ 1000 mW
<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	154 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)

