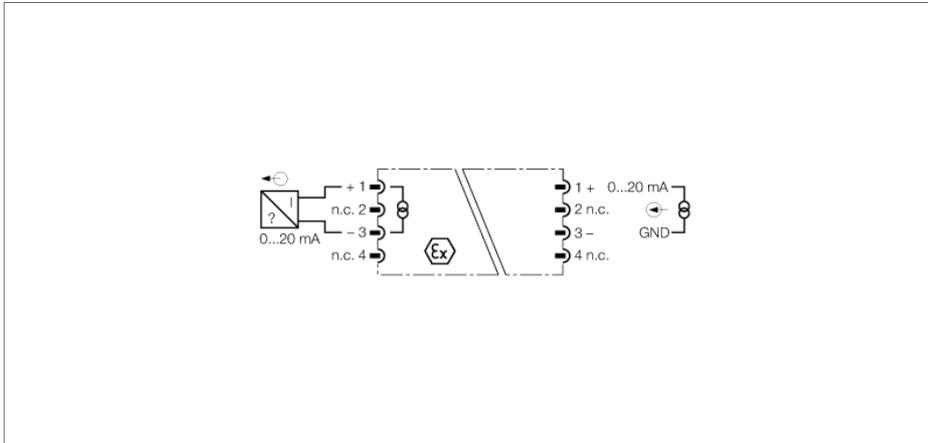




Analog signal isolator
1-channel
IMC-AO-11EX-I/L

TURCK

Industrial
Automation



The analog data transmitter IMC-AO-11Ex-i/L features 1 channel and the input circuit is intrinsically safe. Direct application of the device in zone 2 is possible.

In case of unprotected mounting in zone 2 resp. zone 22 the devices must be protected against mechanical damages of the connectors and the housings with the TURCK cover plate IMC-SG (Ident no.7560016).

The standard current signal is galvanically isolated and transmitted from the safe to the Ex-area without attenuation (1:1). The output circuit is equipped with a short circuit protected 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.

In case of mechanically unprotected mounting in zone 2 i.e. zone 22 the devices need to be protected with the TURCK metal cover plate IMC-SG (Ident no.: 7560016) against mechanical damages of the connectors and the housings.

- **Single-channel analog signal isolator with M12x1 male connector**
- **Intrinsically safe output circuit Ex ia**
- **Application area acc. to ATEX: II (1) GD, II 3 GD**
- **Input circuit: 0/4...20mA**
- **Output circuit: 0/4...20mA**
- **Galvanic separation of input circuits, output circuits and power supply**
- **Protection class IP67**



Analog signal isolator

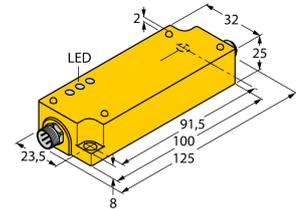
1-channel

IMC-AO-11EX-I/L

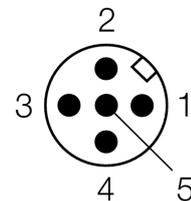
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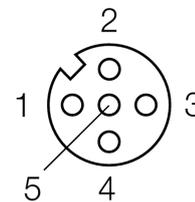
Dimensions



pin configuration M12 connectors



pin assignment female M12 (intrinsically safe end)



Type	IMC-AO-11EX-I/L												
Ident-No.	7560006												
Nominal voltage	Loop-powered												
Power consumption	≤ 3.5 W												
Voltage input	max. 30 VDC												
Current input	0...20 mA												
Output circuits													
Output current	0...20 mA												
Load resistance current output	≤ 0.4 kΩ												
Limit frequency	≤ 65 Hz												
Rise time (10-90%)	≤ 10 ms												
Dropout time (90...10%)	≤ 10 ms												
Measuring accuracy	≤ 0.1 % of full scale												
Reference temperature	23 °C												
Temperature drift	≤ 0.005 % / K												
Galvanic separation													
Test voltage	2.5 kV												
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553223												
Application area	II (1) GD												
Protection type	[Ex ia] IIC/IIB												
Max. output voltage U _o	≤ 13.3 V												
Max. output current I _o	≤ 97 mA												
Max. output power P _o	≤ 322 mW												
Rated voltage	250 V												
Characteristic	linear												
Internal inductance/capacitance L/C,	negligibly small												
External inductance/capacitance L/C,													
	<table border="1"> <thead> <tr> <th>Ex ia</th> <th>IIC</th> <th colspan="2">IIB</th> </tr> </thead> <tbody> <tr> <td>Lo [mH]</td> <td>2</td> <td>0.2</td> <td>2</td> </tr> <tr> <td>Co [nF]</td> <td>420</td> <td>910</td> <td>2700</td> </tr> </tbody> </table>	Ex ia	IIC	IIB		Lo [mH]	2	0.2	2	Co [nF]	420	910	2700
Ex ia	IIC	IIB											
Lo [mH]	2	0.2	2										
Co [nF]	420	910	2700										
Ex approval acc. to conformity certificate	TÜV 07 ATEX 553946 X												
Application area	II 3 GD												
Protection class for belonging equipment	Ex nA [nL] IIC/IIB T4 bzw. Ex tD A22 IP67 T80°C												
Max. output voltage U _o	≤ 13.3 V												
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Ex ia	IIC	IIB											
Lo [mH]	5	0.5	10										
Co [nF]	510	1200	2900										
Protection class	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												