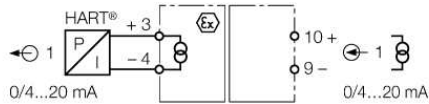


**Analog signal isolator  
1-channel  
IME-AO-11Ex-Hi/L**



The analogue data transmitter IME-AO-11Ex-i/L features 1 channel and the input circuit is intrinsically safe.

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.

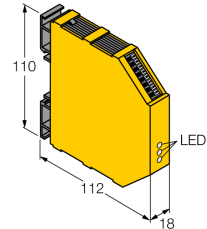
The device is loop-powered.

- Intrinsically safe output circuit Ex ia
- Application area acc. to ATEX: II (1) G, II (1) D, II 3G
- SIL 2
- Output isolator, 1-channel
- HART® transmissible
- Connection of positioner, displays etc.
- Complete galvanic separation



**Analog signal isolator  
1-channel  
IME-AO-11Ex-Hi/L**

**Dimensions**



<b>Type code</b>	IME-AO-11Ex-Hi/L															
Ident no.	7541194															
<b>Nominal voltage</b>	Loop-powered															
Power consumption	≤ 0.75 W															
Power loss, typical	≤ 0.18 W															
<b>Voltage input</b>	max. 30 VDC															
Current input	0...20 mA															
Control circuits	Current limiting 42 mA															
Probe voltage	Udrop=2V+360Ω*lin															
<b>Output circuits</b>	0 ... 20 mA															
Output current	0...20 mA															
Output voltage	max. 13 V															
Load resistance current output	≤ 0.4 kΩ															
<b>Limit frequency</b>	≤ 65 Hz															
Rise time (10-90%)	≤ 10 ms															
Dropout time (90...10%)	≤ 10 ms															
Linearity deviation	≤ 0.1 % of full scale															
Reference temperature	23 °C															
<b>Galvanic separation</b>																
Test voltage	2.5 kV															
<b>Ex approval acc. to conformity certificate</b>	TÜV 08 ATEX 554800															
Application area	II (1) G, II (1) D															
Protection type	[Ex ia] IIB/IIC; [Ex iaD]															
Max. output voltage U <sub>o</sub>	≤ 13.3 V															
Max. output current I <sub>o</sub>	≤ 97 mA															
Max. output power P <sub>o</sub>	≤ 322 mW															
Rated voltage	250 V															
Characteristic	linear															
Internal inductance/capacitance L/C <sub>i</sub>	negligibly small															
External inductance/capacitance L <sub>e</sub> /C <sub>e</sub>	<table border="1"> <thead> <tr> <th>Ex ia</th> <th colspan="2">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> <td>0.2</td> </tr> <tr> <td>Co[μF]</td> <td>0.42</td> <td>0.91</td> <td>2.7</td> <td>5.5</td> </tr> </tbody> </table>	Ex ia	IIC		IIB		Lo[mH]	2	0.2	2	0.2	Co[μF]	0.42	0.91	2.7	5.5
Ex ia	IIC		IIB													
Lo[mH]	2	0.2	2	0.2												
Co[μF]	0.42	0.91	2.7	5.5												
Ex approval acc. to conformity certificate	TÜV 08 ATEX 554818 X															
Application area	II 3 G															
Protection class for belonging equipment	Ex nA [nL] IIC/IIB T4															
Max. output voltage U <sub>o</sub>	≤ 13.3 V															
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Lo [mH]	5	0.5	10	1												
Co [μF]	0.51	1.2	2.9	5.8												
<b>Approval</b>	SIL 2															
MTTF	600 years acc. to SN 29500 (Ed. 99) 40 °C															
<b>Protection class</b>	IP20															
Ambient temperature	-25...+70 °C															
Storage temperature	-40...+80°C															
Dimensions	112x 18x 110 mm															
Weight	122 g															
Mounting instruction	For mounting on DIN rail															
Housing material	Polycarbonate/ABS															
Electrical connection	cage clamp terminals made of Beryllium-Bronze															
Terminal cross-section	1.5 mm <sup>2</sup>															