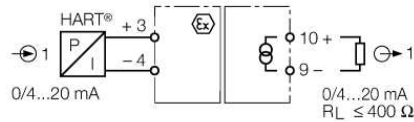


**Analog signal isolator
1-channel
IME-Ai-11Ex-Hi/L**

Active current signals are galvanically isolated and transmitted via the 1-port analog data transmitter IME-Ai-11EX-i/L from the Ex area to the safe area.

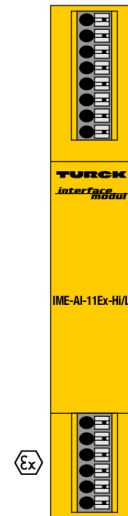
The device features one input circuit 0/4...20 mA and one short-circuit proof output circuit 0/4...20mA.

Safe galvanic isolation of input and output circuit.

The input signals are transmitted 1: 1 to the outputs in the safe area without attenuation.

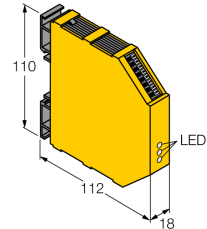
The devices are loop-powered. The device is HART transparent.

- Intrinsically safe input circuit Ex ia
- Application area acc. to ATEX: II (1) G, II (1) D, II 3G
- SIL 2
- Analog signal isolator, 1-channel
- HART® transmissible
- Complete galvanic separation



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

Dimensions



Type code	IME-Ai-11Ex-Hi/L
Ident no.	7541192
Nominal voltage	Loop-powered
Power consumption	≤ 0.75 W
Power loss, typical	≤ 0.16 W
Voltage input	max. 30 VDC
Current input	0...20 mA
Control circuits	Current limiting 42 mA
Probe voltage	Udrop=3V+180Ω*lin
Output circuits	
Output current	0...20 mA
Output voltage	max. 13 V
Load resistance current output	≤ 0.4 kΩ
Limit frequency	≤ 90 Hz
Rise time (10-90%)	≤ 10 ms
Dropout time (90...10%)	≤ 10 ms
Linearity deviation	≤ 0.1 % of full scale
Reference temperature	23 °C
Temperature drift	≤ 0.001 % / K
Galvanic separation	
Test voltage	2.5 kV
Ex approval acc. to conformity certificate	TÜV 08 ATEX 553236
Application area	II (1) G, II (1) D
Protection type	[Ex ia] IIB/IIC; [Ex iaD]
Rated voltage	250 V
Max. input voltage U _i	≤ 27 V
Max. input current I _i	≤ 150 mA
Max. input power P _i	≤ 1000 mW
Internal inductance/capacitance L/C _i	negligibly small
Ex approval acc. to conformity certificate	TÜV 08 ATEX 554624 X
Application area	II 3 G
Protection class for belonging equipment	Ex nA [nL] IIC/IIB T4
Rated voltage	250 V
Max. input voltage U _i	≤ 27 V
Max. input current I _i	≤ 150 mA
Max. input power P _i	≤ 1000 mW
Internal inductance/capacitance L/C _i	negligibly small
Application area	II 3 G
Approval	SIL 2
MTTF	600 years acc. to SN 29500 (Ed. 99) 40 °C
Protection class	IP20
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80 °C
Dimensions	112x 18x 110 mm
Weight	110 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 ²