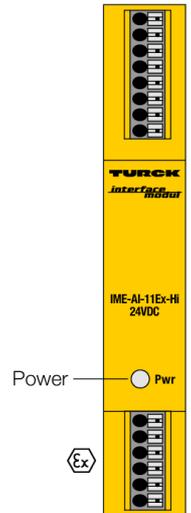
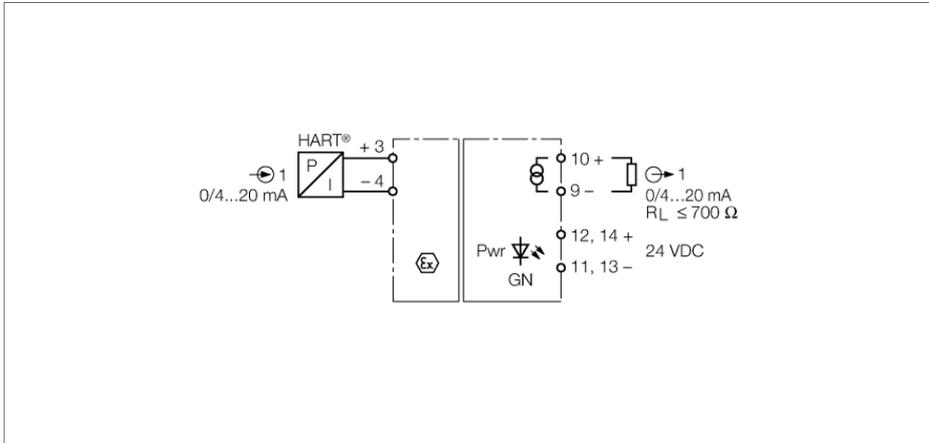


**Analog signal isolator
1-channel
IME-AI-11Ex-Hi/24VDC**



Active current signals are galvanically isolated and transmitted via the single-channel analog signal isolator IME-AI-11EX-Hi/24VDC from the Ex area to the safe area.

Bidirectional transmission of analog and digital HART® communication signals.

The device features one input and one output circuit, each with 0/4...20 mA .

The green LED indicates operational readiness.

Safe galvanic isolation of input and output circuit. The input signal is transmitted 1:1 without attenuation to the output in the safe area. Due to the 1:1 transmission behaviour, wire-break or short-circuit in the measuring transducer circuit are issued as currents of 0 mA or > 22.5 mA.

- 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-port
- HART transparent
- Galvanic separation of input circuits, output circuits and power supply

**Analog signal isolator
1-channel
IME-AI-11Ex-Hi/24VDC**

| | |
|---|---|
| Type | IME-AI-11Ex-Hi/24VDC |
| Ident-No. | 7541198 |
| Nominal voltage | 24 VDC |
| Operating voltage range | 20...30 VDC |
| Power consumption | ≤ 0.75 W |
| Current input | 0/4...20 mA |
| Control circuits | Current limiting 42 mA |
| Output circuits | |
| Output current | 0/4...20 mA |
| Load resistance current output | ≤ 0.7 kΩ |
| Wire break monitoring | ≤ 1 mA |
| Short circuit monitoring | ≥ 22.5 mA |
| Limit frequency | ≤ 90 Hz |
| Rise time (10-90%) | ≤ 10 ms |
| Dropout time (90...10%) | ≤ 10 ms |
| Measuring accuracy | ≤ 0.1 % of full scale |
| Temperature drift | ≤ 0.001 % / K |
| Galvanic separation | |
| Test voltage | 2.5 kV |
| Ex approval acc. to conformity certificate | TÜV 10ATEX555275 |
| Application area | II (1) G, II (1) D |
| Protection type | G [Ex ia] IIB/IIC ; D [Ex ia Da] |
| 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 10ATEX555276X |
| 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 |
| External inductance/capacitance L/C _e | negligibly small |
| Approval | SIL 2 |
| Indication | |
| Operational readiness | green |
| Protection class | IP20 |
| Storage temperature | -40...80°C |
| Dimensions | 112 x 18 x 110 mm |
| Weight | 112 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 |

