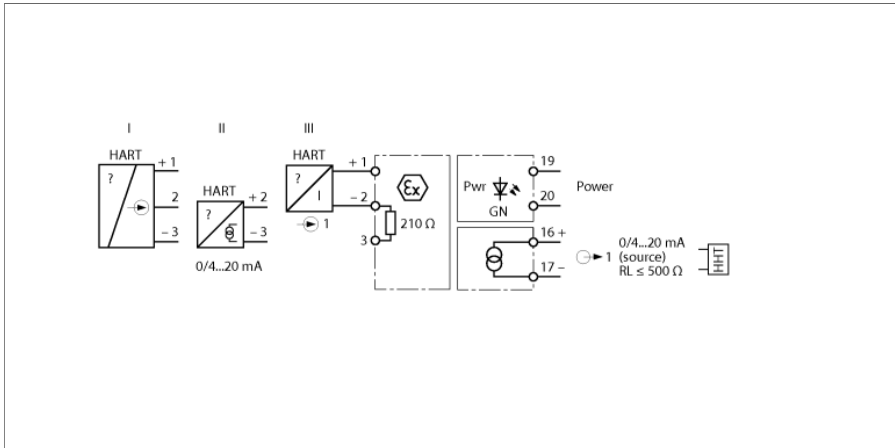


Isolating transducer 1-channel IM33-11EX-HI



The 1-channel HART[®]isolating transducer IIM33-11EX-HI is designed to operate intrinsically safe HART[®]2-wire transducers (III) in the Ex area and to transmit the measured signal to the non-Ex area. In addition to the analog signals, also the digital HART[®]communication signals can be transmitted bidirectionally.

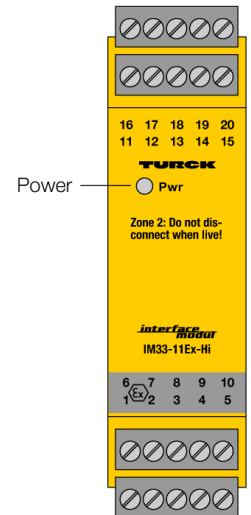
Alternatively, active 2-wire HART[®]transmitters (II) and passive 3-wire HART[®]transmitters (I) can be operated.

The device features one input and one output circuit, laid out for 0/4...20 mA. A green LED indicates operational readiness.

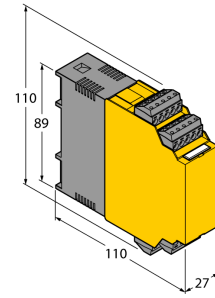
The input signal is transmitted 1:1 without interference and made available at the relevant output in the non-Ex area.

The removable terminal blocks feature test sockets (Ø 2 mm) for connection of a HART[®] handheld.

- Power supply of 2-wire measuring transducers with HART communication as well as connection to active 2-wire and passive 3-wire transmitters
- Input circuit: 0/4...20 mA
- Output circuit: 0/4...20 mA
- Removable terminal blocks, screwable, with 2 mm test socket
- Complete galvanic isolation
- Input reverse-polarity protected
- ATEX, IECEx, cFM_{US}, TR CU, INMETRO
- Installation in zone 2

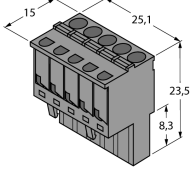


Dimensions



| | |
|--|--|
| Type | IM33-11EX-HI |
| ID | 7506443 |
| Nominal voltage | |
| Nominal voltage | Universal voltage supply unit |
| Operating voltage | 20...250 VAC |
| Frequency | 40...70 Hz |
| Operating voltage | 20...125 VDC |
| Power consumption | ≤ 3 W |
| Transmitter connection | |
| Supply voltage | ≥ 17 V / 20 mA |
| Current | 25 mA |
| Input current | 0/4...20 mA |
| Input resistance (current) | ≤ 250 Ω |
| Output circuits | |
| Output current | 0/4...20 mA |
| Load resistance current output | ≤ 0.5 kΩ |
| Response characteristic | |
| Rise time (10...90 %) | ≤ 50 ms |
| Fall time (90...10 %) | ≤ 50 ms |
| Measuring accuracy (including linearity, hysteresis and repeatability) | ≤ 0.1 % of full scale |
| Reference temperature | 23 °C |
| Temperature drift | ≤ 0.005 % of full scale/K |
| Galvanic isolation | |
| Test voltage | 2.5 kV RMS |
| Important note | |
| | For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply. |
| Ex approval acc. to conformity certificate | TÜV 05 ATEX 2910 |
| Application area | II (1) G; II (1) D |
| Ignition protection category | [Ex ia Ga] IIC; [Ex ia Da] IIIC |
| Ex approval acc. to conformity certificate | TÜV 06 ATEX 2967 X |
| Application area | II 3 G |
| Ignition protection type | Ex nA [ic Gc] IIC T4 Gc |
| Characteristic | trapezoidal |
| Displays/Operating elements | |
| Operational readiness | Green |
| Mechanical data | |
| Protection class | IP20 |
| Flammability class acc. to UL 94 | V-0 |
| Ambient temperature | -25...+70 °C |
| | -25 ... +60 °C für FM |
| Storage temperature | -40...+80 °C |
| Dimensions | 110 x 27 x 110 mm |
| Weight | 216 g |
| Mounting instructions | DIN rail (NS35) or panel |
| Housing material | Polycarbonate/ABS |
| Electrical connection | 4 × 5-pin removable terminal blocks with test socket, reverse polarity protected, screw terminal |
| Terminal cross-section | 1 × 2.5 mm ² /2 × 1.5 mm ² |
| Tightening torque | 0.5 Nm |

Accessories

| Type code | Ident no. | | Dimension drawing |
|-----------------|-----------|--|---|
| IM-CC-5X2BU/2BK | 7504031 | Cage clamp terminals for IM modules (Ex-devices with 27 mm overall width); includes: 2 pcs. 5-pin blue terminals and 2 pcs. 5-pin black terminals. |  |