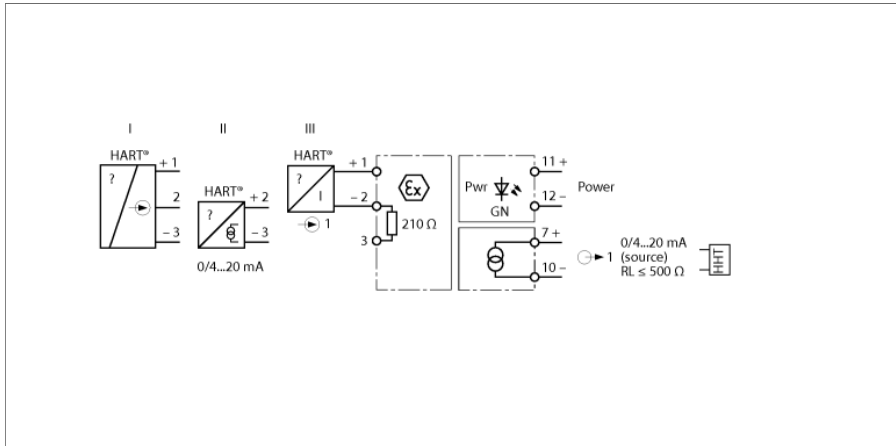


**Isolating transducer
1-channel
IM33-11EX-HI/24VDC**



The 1-channel HART[®] isolating transducer IM33-11EX-HI/24VDC 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.

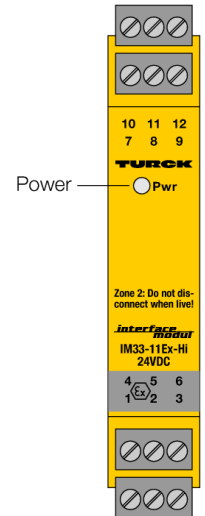
Alternatively, passive 2-wire HART[®] transmitters (II) and active 3-wire HART[®] transmitters (I) can be operated.

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 output in the non-Ex area.

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

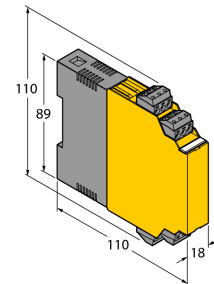
- ATEX, IECEx, UL, cFM_{us}, TR CU, CCEO, Kosha
- Installation in zone 2
- Power supply of 2-wire measuring transducers with HART[®] communication as well as connection to active 2-wire and passive 3-wire transmitters
- Input circuit: 0/4...20 mA
- Output circuit: 0/4...20 mA
- SIL2
- Removable terminal blocks, screwable, with 2 mm test box
- Complete galvanic isolation
- Input reverse-polarity protected



**Isolating transducer
1-channel
IM33-11EX-HI/24VDC**

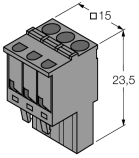
| | |
|--|---|
| Type designation | IM33-11EX-HI/24VDC |
| Ident-No. | 7506440 |
| Nominal voltage | 24 VDC |
| Operating voltage range | 19...29 VDC |
| Power consumption | ≤ 2.2 W |
| Transmitter connection | |
| Supply voltage | ≥ 17 V / 20 mA |
| Current | 25 mA |
| Input current | 0/4...20 mA |
| Input resistance (current) | ≤ 250 Ω |
| Output circuits | |
| Output current | 0/4...20 mA |
| Load resistance, current output | ≤ 0.5 kΩ |
| 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 |
| 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 00 ATEX 1595 |
| 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 552977 X |
| Application area | II 3 G |
| Ignition protection type | Ex nA [ic Gc] IIC T4 Gc |
| Characteristic | trapezoidal |
| Important note | If the device is used in applications to achieve functional safety according to IEC 61508, the safety manual must be used. Information in the data sheet are not valid for functional safety. |
| Approval | SIL 2 acc. to EXIDA FMEDA |
| Use in SIL safety circuits | SIL 2 acc. to IEC 61508 |
| Approval | SIL 2 acc. to EXIDA FMEDA |
| Indication | |
| Operational readiness | green |
| Protection class | IP20 |
| Flammability class acc. to UL 94 | V-0 |
| Ambient temperature | -25...+70 °C |
| | -25 ... +60 °C für UL, FM, TIIS |
| Storage temperature | -40...+80 °C |
| Relative humidity | ≤ 95 % |
| Dimensions | 110 x 18 x 110 mm |
| Weight | 168 g |
| Mounting instructions | DIN rail (NS35) or panel |
| Housing material | Polycarbonate/ABS |
| Electrical connection | 4 × 3-pin removable terminal blocks with test socket, reverse polarity protected, screw terminal |
| Terminal cross-section | 1 x 2.5 mm ² / 2 x 1.5 mm ² |
| Tightening torque | 0.5 Nm |

Dimensions



**Isolating transducer
1-channel
IM33-11EX-HI/24VDC**

Accessories

| Type code | Ident-No. | Description | Dimension drawing |
|-----------------|-----------|--|---|
| IM-CC-3X2BU/2BK | 6900475 | Cage clamp terminals for IM modules (Ex-devices with 18 mm overall width); includes: 2 pcs. 3-pin blue terminals and 2 pcs. 3-pin black terminals. |  |