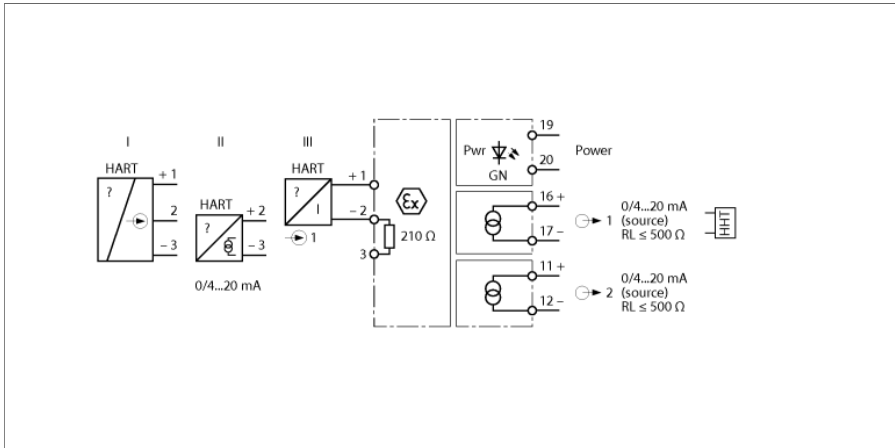


Isolating transducer 1-channel IM33-12EX-HI



The 1-channel HART[®]isolating transducer IM33-12EX-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.

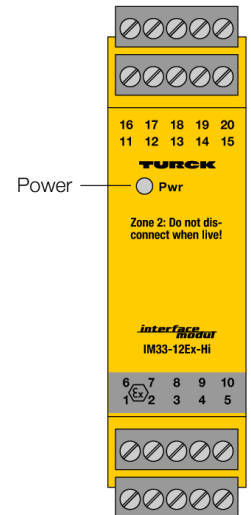
Alternatively, active 2-wire HART[®]transmitters (II) and passive 3-wire HART[®]transmitters (I) can be operated.

The device features 1 input and 2 output circuits laid out for 0/4...20 mA. A green LED indicates operational readiness.

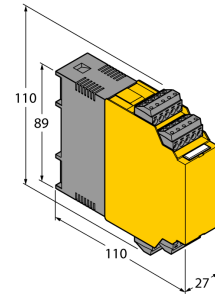
The input signal is transmitted 1:1 without interference and made available at the output in the non-Ex area. The HART[®]signal is transmitted to output 1.

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, NEPSI
- Installation in zone 2



Dimensions



Type	IM33-12EX-HI
ID	7506444
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
Residual ripple	≤ 10 mV _{eff}
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	210 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.	