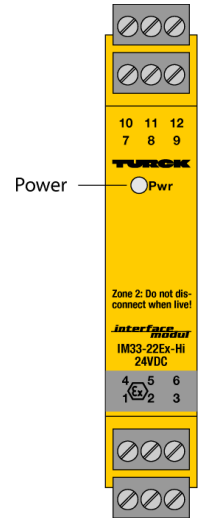
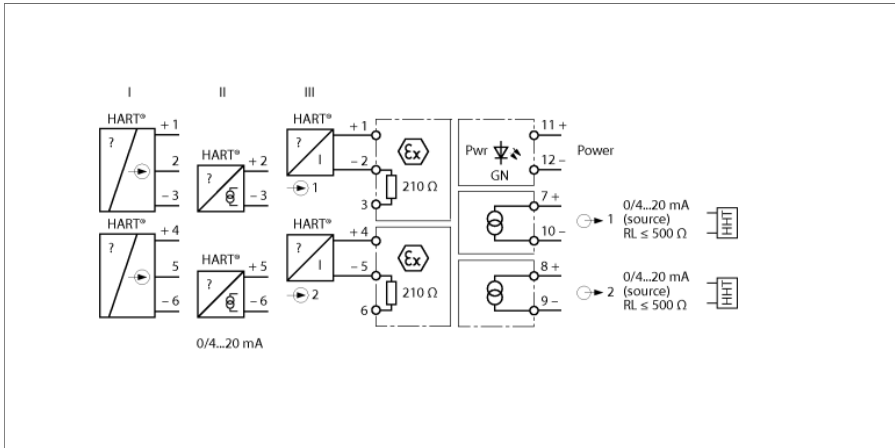


**Isolating transducer
2-channel
IM33-22EX-HI/24VDC**



The 2-channel HART[®] isolating transducer IM33-22EX-HI/24VDC is designed to operate intrinsically safe HART[®] 2-wire transducers (III) in the Ex area and to transmit the measured signals 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 0/4...20 mA input and output circuits. A green LED indicates operational readiness.

The input signals are transmitted 1:1 without interference and made available at the outputs in the non-Ex area.

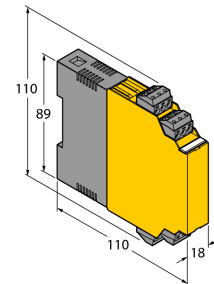
The removable terminal blocks feature test sockets (Ø 2 mm) for connection of a HART[®] handheld.

- Power supply of 2-wire measuring transducers with HART communication as well as connection to active 2-wire and passive 3-wire transmitters
- Input circuits: 0/4...20 mA
- Output circuits: 0/4...20 mA
- SIL2
- Removable terminal blocks, screwable, with 2 mm test socket
- Complete galvanic isolation
- Input reverse-polarity protected

**Isolating transducer
2-channel
IM33-22EX-HI/24VDC**

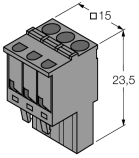
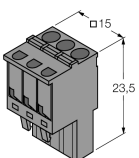
Type designation	IM33-22EX-HI/24VDC
Ident no.	7506441
Nominal voltage	24 VDC
Operating voltage range	19...29 VDC
Power consumption	≤ 3.2 W
Transmitter connection	
Supply voltage	≥ 17 V / 20 mA
Input current	0/4...20 mA
Input resistance (current)	≤ 250 Ω
Output circuits	
Output current	0/4...20 mA
Load 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 18 ATEX 230812 X
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 [jc 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
Indication	
Operational readiness	green
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature (min.)	-25 °C
Ambient temperature (max.)	70 °C
Storage temperature	-25 ... +60 °C für UL, FM, TIIS
Relative humidity	-40...+80 °C
Dimensions	≤ 95 %
Weight	110 x 18 x 110 mm
Mounting instructions	197 g
Housing material	DIN rail (NS35) or panel
Electrical connection	Polycarbonate/ABS
Terminal cross-section	4 × 3-pin removable terminal blocks with test socket, reverse polarity protected, screw terminal
Tightening torque	1 x 2.5 mm ² / 2 x 1.5 mm ²
	0.5 Nm

Dimensions



**Isolating transducer
2-channel
IM33-22EX-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.	 <p>Technical drawing of a 3-pin cage clamp terminal block. The drawing shows a perspective view of the component. Dimension lines indicate a width of 15 mm and a height of 23.5 mm.</p>
IM-CC-3X2BU/2BK	-	Spring-type 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.	 <p>Technical drawing of a 3-pin spring-type terminal block. The drawing shows a perspective view of the component. Dimension lines indicate a width of 15 mm and a height of 23.5 mm.</p>