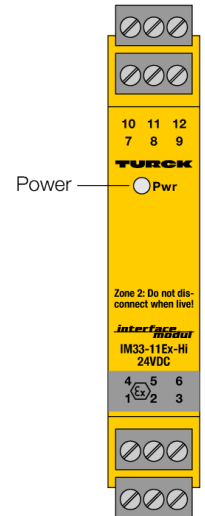
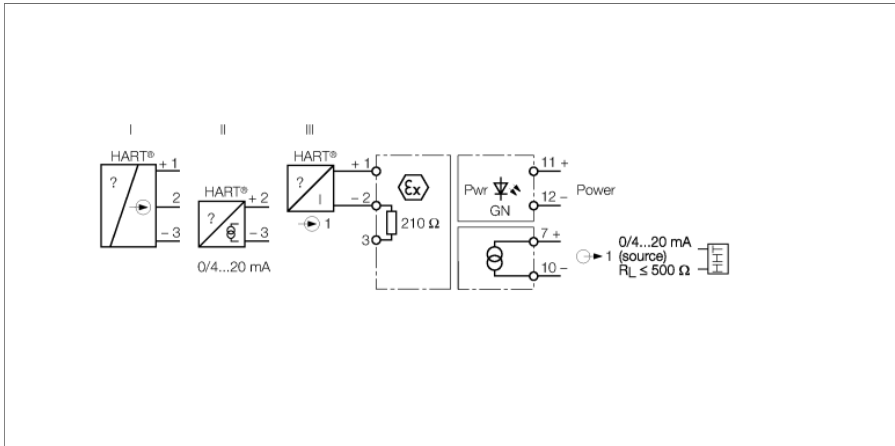


**Ex-HART® Isolating transducer
1-channel
IM33-11EX-HI/24VDC**



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 transfer the measured signal to the non-Ex area. In addition to the analog signals, also digital HART® communication signals can be transferred 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, for 0/4...20 mA. The green LED indicates operational readiness.

The input signal is transferred unattenuated 1:1 to the output in the non-Ex area.

Due to the 1:1 transmission characteristic, wire-break or short-circuit of in the measuring transducer circuit are indicated as currents of 0 mA resp. > 22.5 mA.

The removable cage clamp terminals feature test sockets (Ø 2 mm) for connection of a HART® handheld.

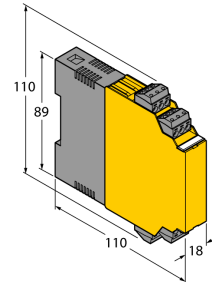
Other device variants are available on request.

- ATEX, IECEx, FM, UL, GOST
- Installation in zone 2
- Power supply of 2-wire measuring transducers via 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

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

Type code	IM33-11EX-HI/24VDC									
Ident no.	7506440									
Flammability class acc. to UL 94	V-0									
Nominal voltage	24 VDC									
Operating voltage range	19...29 VDC									
Power consumption	≤ 2.2 W									
Transmitter connection										
supply current	≥ 17 V									
Current	25 mA									
Current input	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									
Dropout time (90...10%)	≤ 50 ms									
Measuring accuracy	≤ 0.1 % of full scale									
Reference temperature	23 °C									
Temperature drift	≤ 0.005 % / K									
Galvanic isolation										
Test voltage	2.5 kV									
Ex approval acc. to conformity certificate	TÜV 00 ATEX 1595									
Application area	II (1) GD									
Protection type	[EEx ia] IIC									
Max. values:	terminal connection 1...3									
Max.output voltage U _o	≤ 21.9 V									
Max. output current I _o	≤ 95 mA									
Max. output power P _o	≤ 747 mW									
Characteristic	Trapezoidal									
Max. input voltage U _i	≤ 40 V									
Max. input power P _i	≤ 650 mW									
Rated voltage	250 V									
External inductance/capacitance L _e /C _e	<table border="1"> <thead> <tr> <th>Ex ia</th> <th>IIC</th> <th>IIB</th> </tr> </thead> <tbody> <tr> <td>Lo [mH]</td> <td>2.8</td> <td>11</td> </tr> <tr> <td>Co [μF]</td> <td>0.057</td> <td>0,370</td> </tr> </tbody> </table>	Ex ia	IIC	IIB	Lo [mH]	2.8	11	Co [μF]	0.057	0,370
Ex ia	IIC	IIB								
Lo [mH]	2.8	11								
Co [μF]	0.057	0,370								
Ex approval acc. to conformity certificate	TÜV 06 ATEX 552977 X									
Application area	II 3 G									
Protection type	Ex nA [nL] IIC/IIB T4									
Max. values:	terminal connection 1...3									
Max.output voltage U _o	≤ 21.9 V									
Max. output current I _o	≤ 95 mA									
Characteristic	trapezoidal									
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Ex nL	IIC	IIB								
Lo [mH]	3	10.0								
Co [μF]	0.12	0.81								
Internal resistance R _i	331 Ω									
Approval	SIL 2 acc. to EXIDA FMEDA									
MTTF	125 years acc. to SN 29500 (Ed. 99) 40 °C									
Indication										
Operational readiness	green									

Dimensions



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

Protection class	IP20
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80°C
Relative humidity	≤ 95%
Dimensions	110 x 18 x 110 mm
Weight	146 g
Mounting instruction	For mounting on DIN rail or mounting panel
Housing material	polycarbonate/ABS
Electrical connection	4 x 3-pole removable terminal blocks with test socket, reverse polarity protected, screw connection
Terminal cross-section	1 x 2.5 mm ² / 2 x 1.5 mm ²
Tightening torque	0.5 Nm

Accessories

Type code	Ident no.	Description	Dimension drawing
IM-CC-3X2BU/2BK	6900475	Cage clamp terminals for IM modules (Ex devices; width 18 mm); 2 blue/2 black, 3-pin, included in delivery.	