

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



The 1-channel HART[®]isolating transducer IM33-11-HI/24VDC is designed to operate HART[®]2-wire transducers (III) and to transmit galvanically isolated signals. 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, each with 0/4...20 mA. A green LED indicates operational readiness.

The input signals are transmitted 1:1 without interference and made available at the output.

The removable terminal blocks feature test sockets (\emptyset 2 mm) for connection of a HART^{\circ}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
- SIL2
- Removable terminal blocks, screwable, with 2 mm test box
- Complete galvanic isolation
- Input reverse-polarity protected
- TR CU



ID 7506447 Nominal voltage 24 VDC Operating voltage 19...29 VDC Power consumption \leq 2.2 W Transmitter connection \geq 17 V / 20 mA Supply voltage Current 25 mA Input current 0/4...20 mA Input resistance (current) \leq 250 Ω Output circuits Output current 0/4...20 mA Load resistance current output \leq 0.5 k Ω Response characteristic Rise time (10...90 %) \leq 50 ms Fall time (90...10 %) \leq 50 ms ≤ 0.1 % of full scale Measuring accuracy (including linearity, hysteresis and repeatability) Reference temperature 23 °C Temperature drift ≤ 0.005 % of full scale/K Galvanic isolation Test voltage 2.5 kV RMS 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. SIL 2 acc. to EXIDA FMEDA Approval Use in SIL safety circuits SIL 2 acc. to IEC 61508 Displays/Operating elements Operational readiness Green Mechanical data IP20 Protection class Flammability class acc. to UL 94 V-0 Ambient temperature -25...+70 °C Storage temperature -40...+80 °C 110 x 18 x 110 mm Dimensions 161 g Weight DIN rail (NS35) or panel Mounting instructions Housing material Polycarbonate/ABS Electrical connection 4 × 3-pin removable terminal blocks with test socket, reverse polarity protected, screw terminal Terminal cross-section 1 × 2.5 mm²/2 × 1.5 mm²

0.5 Nm

IM33-11-HI/24VDC

Dimensions



Tightening torque

Туре



Accessories

Type code	Ident no.		Dimension drawing
IM-CC-3X2BK/2BK	7541218	Cage clamp terminals for IM modules (Ex-devices with 18 mm overall width); includes: 4 pcs. of 3-pin black terminals	23.5

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