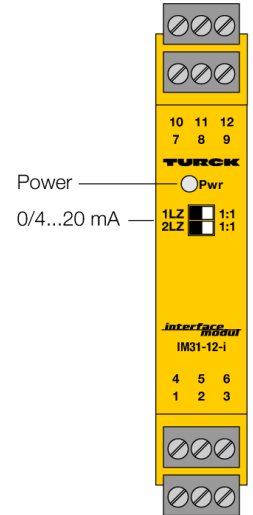
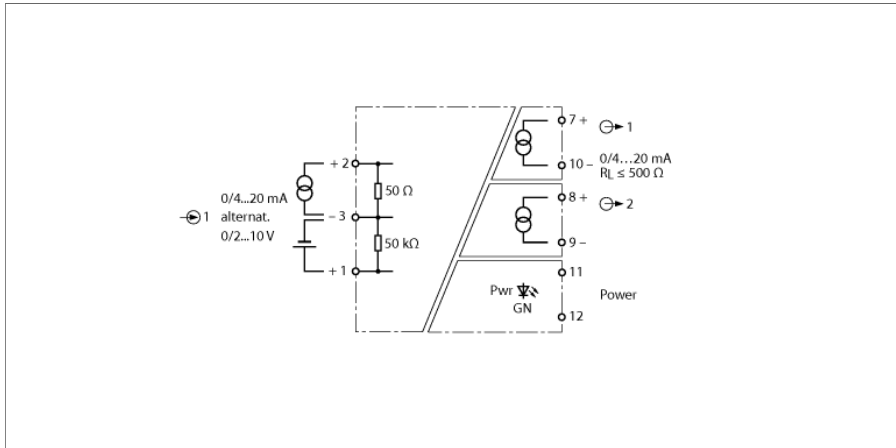


Analog signal isolator

1-channel

IM31-12-I



Normalized active voltage or current signals are transmitted galvanically isolated via the 1-channel analog signal isolator IM31-12-I. The signal is duplicated and provided at both outputs.

The device is equipped with one input circuit of 0/2...10 V or 0/4...20 mA and two short-circuit proof output circuits of 0/4...20 mA.

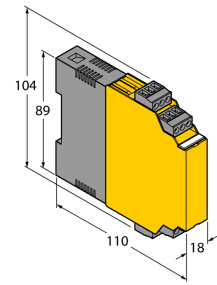
The transmission characteristic is adjusted via a DIP switch on the front. In switch position 1:1 the input signal is transmitted without interference and made available at the outputs. In "LZ" switch position, a dead-zero signal at the input (0...10 V or 0...20 mA) is converted and provided as a live-zero signal at the output (4...20 mA).

A green LED indicates operational readiness.

- Transmission of normalized analog signals
- Input circuit: 0/2...10 V or 0/4...20 mA
- Output circuit: 2 × 0/4 0...20 mA
- Complete galvanic isolation
- Input reverse-polarity protected
- TR CU

Dimensions

Type	IM31-12-I
ID	7506324
Nominal voltage	
Nominal voltage	Universal voltage supply unit
Operating voltage	20...250 VAC
Frequency	40...70 Hz
Operating voltage U_s	20...125 VDC
Power consumption	≤ 2.2 W
Voltage input	
Voltage input	0/2...10 VDC
Input resistance (voltage)	≥ 50 k Ω
Input current	0/4...20 mA
Input resistance (current)	≤ 50 Ω
Output circuits	
Output current	0/4...20 mA
Load resistance current output	≤ 0.5 k Ω
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
Displays/Operating elements	
Operational readiness	Green
Mechanical data	
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80 °C
Dimensions	104 x 18 x 110 mm
Weight	136 g
Mounting instructions	DIN rail (NS35) or panel
Housing material	Plastic, Polycarbonate/ABS
Electrical connection	4 x 3-pin removable terminal blocks, 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



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	