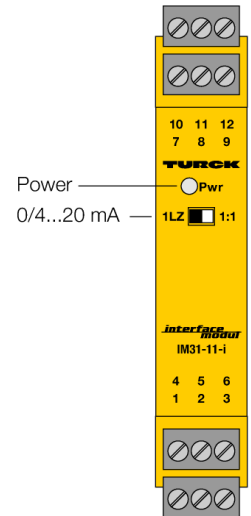
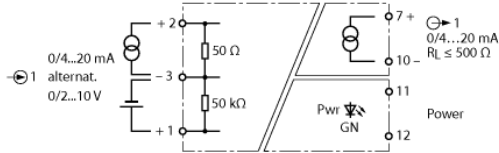


Analog signal isolator 1-channel IM31-11-I



Normalized active voltage or current signals are transmitted galvanically isolated via the 1-channel analog signal isolator IM31-11-I.

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

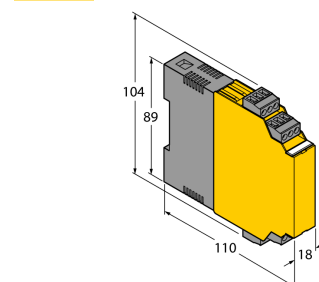
The transmission characteristic is adjusted via a DIP switch on the front. In switch position 1:1 the input signal is transmitted without interference and made available at the output. In "LZ" switch position, a dead-zero signal at the input (0...10 V or 0...20 mA) is converted and provided as a live-zero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

A green LED indicates operational readiness.

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

Analog signal isolator 1-channel IM31-11-I

Dimensions



Type designation	IM31-11-I
Ident-No.	7506323
Nominal voltage	Universal voltage supply unit
Operating voltage	20...250 VAC
Frequency	40...70 Hz
Operating voltage range	20...125 VDC
Power consumption	≤ 2.2 W
Voltage input	0/2...10 VDC
Input resistance (voltage)	≥ 50 kΩ
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 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
Indication	
Operational readiness	green
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80 °C
Relative humidity	≤ 95 %
Dimensions	104 x 18 x 110 mm
Weight	134 g
Mounting instructions	DIN rail (NS35) or panel
Housing material	Polycarbonate/ABS
Electrical connection	4 × 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

Analog signal isolator
1-channel
IM31-11-I

Accessories

Type code	Ident-No.	Description	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	