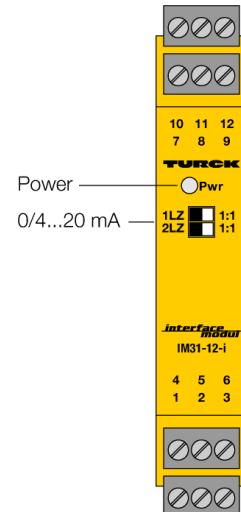
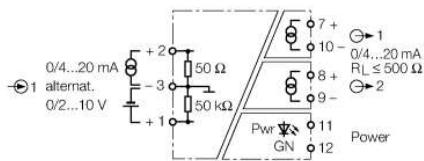


Analog signal isolator

1-channel

IM31-12-I



Standard active voltage or current signals are galvanically separated and transferred 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.

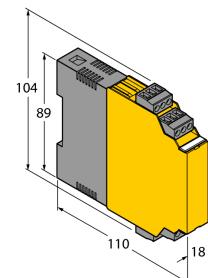
The transfer characteristic is adjusted via a DIP switch at the front. In "1:1" switch position, the input signal is transferred unattenuated to the outputs. In "LZ" switch position, a dead-zero signal at the input (0...10 V / 0...20 mA) is converted and provided as a live-zero signal at the output (4...20 mA).

The green LED indicates operational readiness.

- Transfer of standard analog signals
- Input circuit: 0/2...10 V or 0/4...20 mA
- Output circuit: 2 x 0/4 0...20 mA
- Removable terminal blocks
- Complete galvanic separation

Analog signal isolator
1-channel
IM31-12-I

Type code	IM31-12-I
Ident no.	7506324
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
Current input	0/4...20 mA
Input resistance (current)	50 Ω
Output circuits	
Output current	0/4...20 mA
Load resistance current output	≤ 0.5 kΩ
Limit frequency	≤ 30 Hz
Rise time (10-90%)	≤ 50 ms
Dropout time (90...10%)	≤ 50 ms
Measuring accuracy	≤ 0.2 % of full scale
Reference temperature	23 °C
Temperature drift	≤ 0.005 % / K
Galvanic separation	
Test voltage	2.5 kV
Rated voltage	250 V
MTTF	100 years acc. to SN 29500 (Ed. 99) 40 °C
Indication	
Operational readiness	green
Protection class	IP20
Ambient temperature	-25...+70 °C
Storage temperature	-40...+80°C
Relative humidity	≤ 95%
Dimensions	104x 18x 110 mm
Weight	131 g
Mounting instruction	For mounting on DIN rail or mounting panel
Housing material	Polycarbonate/ABS
Electrical connection	4 x 3-pole removable terminal blocks, 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

Dimensions

Accessories

Type code	Ident no.	Description	Dimension drawing
IM-CC-3X2BK/2BK	7541218	Cage clamps for IM modules (non-Ex devices, width 18 mm): 4 black, 3-pin, included in delivery	