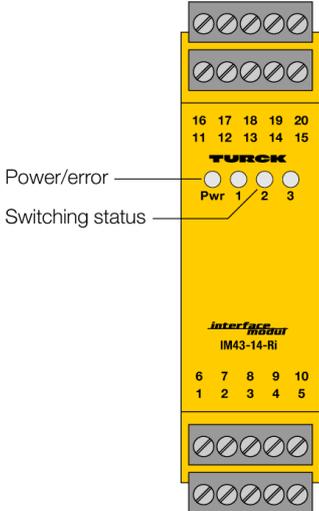
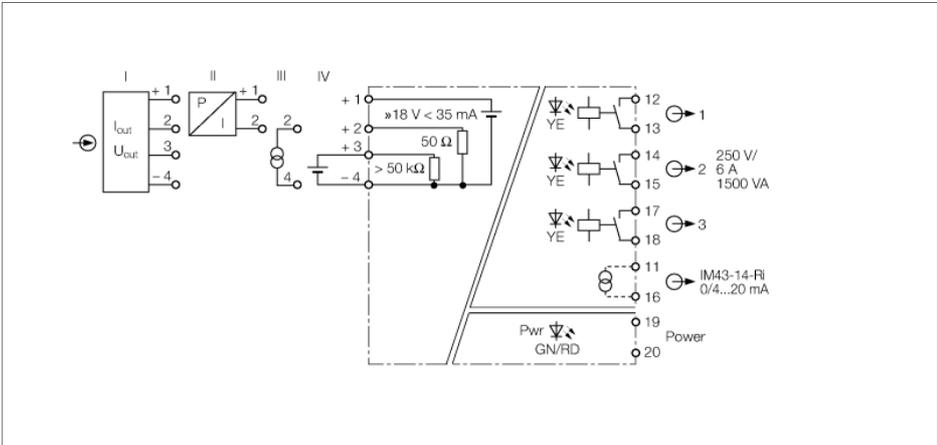


**Limit value indicator
1-channel
IM43-14-RI**



The limit value monitor IM43-14-RI is a single-channel devices and alternatively monitors measuring currents of 0/4...20 mA or measuring voltages of 0/2...10 V.

The three limit values are set via the lateral coded rotary switches.

Additionally 18 V (max. 35 mA) are provided for transmitters rep. sensors.

The green LED indicates operational readiness. Three yellow LEDs indicate the switching status of the corresponding output.

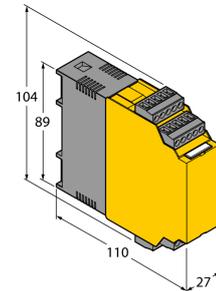
The output mode and hysteresis are adjusted via DIP switches.

A galvanically isolated analog current output is provided for transmission to other devices. The conversion of live-zero to dead-zero signals and vice versa is set with a DIP switch. In live-zero mode the range between 4 ...20 mA is monitored. Outside this range (< 3.6 mA or > 24 mA) an error message is signalled. In this case the Power LED will illuminate red, the relays are de-energized and an error current of 0 or > 22 mA is output. If a faulty transmitter causes a short circuit, the relays are de-energized and an error current of 0 or > 22 mA is output.

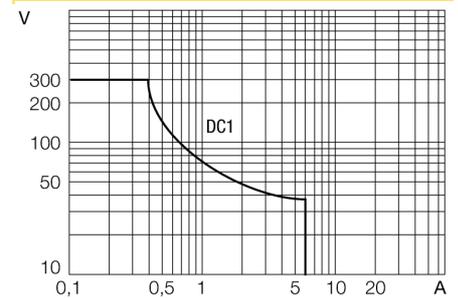
- **Input: 0/4...20 mA, 0/2...10 VDC, 2- or 3-wire transmitters/sensor**
- **Output: 0/4..20 mA, three independent configurable limit value relays**
- **Parameterization via coded rotary switch**
- **Removable terminal blocks**
- **Galvanic separation of input circuits, output circuits and power supply**

**Limit value indicator
1-channel
IM43-14-RI**

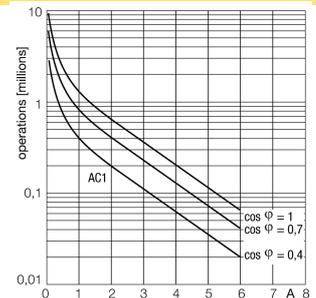
Dimensions



Load curve



Output relay electrical lifetime



Type	IM43-14-RI
Ident-No.	7540042
Nominal voltage	Universal voltage supply unit
Operating voltage	20...250 VAC
Frequency	40...70 Hz
Operating voltage range	20...250 VDC
Power consumption	≤ 5 W
Transmitter connection	
Supply voltage	18 VDC
Current	35 mA
Voltage	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	≤ 0.6 kΩ
Output circuits (digital)	3 x relays (NO)
Relay switching voltage	≤ 250 VAC/120 VDC
Switching current per output	≤ 6 A
Switching capacity per output	≤ 1500 VA
Switching frequency	≤ 10 Hz
Contact quality	AgNi, 3μ Au
Reference temperature	23 °C
Temperature drift	≤ 0.00075 % / K
Galvanic separation	
Test voltage	2.5 kV
Rated voltage	250 V
Indication	
Operational readiness	green
Switching state	yellow
Error indication	red
Protection class	IP20
Ambient temperature	-25...+70 °C
Storage temperature	-40...80 °C
Dimensions	104 x 27 x 110 mm
Weight	179 g
Mounting instruction	For mounting on DIN rail or mounting panel
Housing material	Polycarbonate/ABS
Electrical connection	4 x 5-pole removable terminal blocks, reverse polarity protected, screw connection
Terminal cross-section	1 x 2.5 mm ² / 2 x 1.5 mm ²

Accessories

Type code	Ident-No.	Short text	Dimension drawing
IM-CC-5X2BK/2BK	7541219	Cage clamps for IM modules (non-Ex devices, width 27 mm): 4 black, 5-pin, included in delivery	