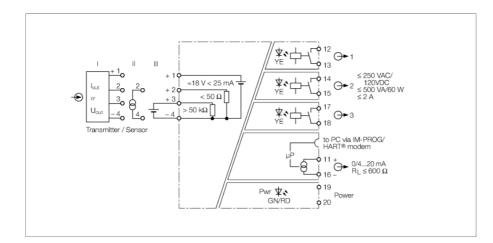


Isolating transducer 1-channel IM43-14-CDRI



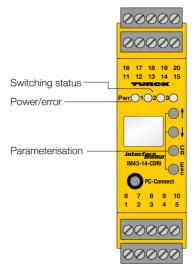
The 1-channel IM43-14-CDRI isolating transducer is designed to operate 2-wire transducers (III) and to galvanically isolate and transmit the measured signals. Alternatively, active 2-wire transmitters (II) and passive 3-wire transmitters (I) can also be operated.

The three limit values are set via teach buttons at the front.

The device is equipped with an analog output of 0/4...20 mA; In addition, three relay outputs for limit values are available. The unit of the measured value is freely selectable and indicated on a 2-line display. A green LED indicates operational readiness, 3 yellow LEDs indicate the switching status of the individual channels. At each of the three outputs a predefined setpoint value can be monitored according to overshoot/undershoot. The switching hysteresis is defined by programming the switch-on and switch-off point. Furthermore, a switch-off delay can be set individually for each output.

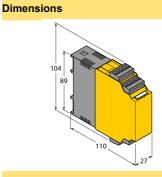
The measured value is permanently written to a ring buffer with space for 8000 values. The writing process is stopped with a predefined trigger event, like for example "excess of limit value". After that, the stored signal sequence can be read out.

The device can be parametrized and configured via PC (FDT / DTM). For this, connect the device to the PC via the 3.5 mm jack on the front (the matching transmission cable IM-PROG III can be ordered separately from TURCK). In addition, a basic scope of parameters can be set via buttons and display on the front as well as via the HART[®] capable power interface



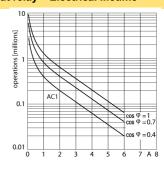
- Input circuit: 0/4...20 mA; 0/2...10 V
- Output circuit: 0/4...20 mA, 3 independent limit value relays
- Universal operating voltage
- Monitors over and underrange of analog values and window limits
- Connection of passive 2-wire and active 3wire transmitters
- Parameterized via PC (FDT / DTM), frontpanel switch and HART®
- Many diagnostic functions
- Ring buffer for up to 8000 measured values
- Display
- Complete galvanic isolation
- Input reverse-polarity protected
- TR CU

Туре	IM43-14-CDRI	
ID	7540045	
Nominal voltage	Universal voltage supply unit	
Operating voltage	20250 VAC	
Frequency	4070 Hz	
Operating voltage U _B	20250 VDC	
Power consumption	3 W	
Power dissipation, typical	≤ 1.7 W	
Residual ripple	\leq 10 mV _{ss}	
	C	
Transmitter connection	١	
Supply voltage	17 V/20 mA typ.	
Current	25 mA	
Voltage input	0/210 VDC	
Input current	0/420 mA	
· · ·		
Output circuits		
Output current	0/420 mA	
Fault current	0 / 22 mA adjustable	
Output circuits (digital)	3 x relays (NO)	
Output switching voltage relay	≤ 30 VDC / ≤ 250 VAC	
Switching current per output	< 2 A	
Switching capacity per output	≤ 500 VA/60 W	
Switching frequency	≤ 10 Hz	
Response characteristic		
Measuring accuracy (including linearity, hysteresis and	≤ 0.05 % of full scale	
repeatability)		
Reference temperature	23 °C	
Temperature drift analog output	0.0025 %/K	
Galvanic isolation		
Test voltage	2.5 kV RMS	
Displays/Operating elements		
Operational readiness	Green	
Switching state	Yellow	
Error indication	red	
Mechanical data		
Protection class	IP20	
Flammability class acc. to UL 94	V-0	
Ambient temperature	-25+70 °C	
Storage temperature	-40+80 °C	
Dimensions	-40+80 C	
Weight	245 g	
Mounting instructions	DIN rail (NS35) or panel	
Housing material	Plastic, Polycarbonate/ABS	
Electrical connection		
	4 x 5-pin removable terminal blocks reverse polarity	
	4 × 5-pin removable terminal blocks, reverse polarity protected, screw terminal	
Terminal cross-section	protected, screw terminal	
Terminal cross-section		



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Output relay – Load curve





Accessories

Type code	Ident-No.		Dimension drawing
IM-PROG III	7525111	USB-compatible programming adapter for the FDT/DTM- based parametrization of HART-capable Turck devices; gal- vanic separation between the device to be parametrized and the PC	0 3.5
IM-CC-5X2BK/2BK	7541219	Cage clamp terminals for IM modules (Ex-devices with 27 mm overall width); includes: 4 pcs. of 5-pin black terminals	15 22,5 1 8,3 1 1 1

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