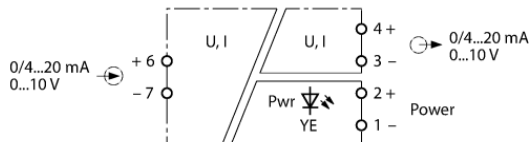


Analog signal isolator 1-channel IMS-AI-UNI/24V



Standard active voltage or current signals are transmitted galvanically isolated and converted to other signal types via the 1-channel universal analog signal isolator IMS-AI-UNI/24VDC.

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

The transmission characteristic (for input and output signal type) is adjusted via side-mounted DIP switches. The input signals are transmitted according to the setting 1:1 and made available to the outputs.

A yellow LED indicates operational readiness.

With a width of 6.2 mm, the device is galvanically isolated up to 1.5 kV.

- Input circuit: 0/4...20 mA or 0...10 V
- Output circuit: 0/4...20 mA or 0...10 V
- Type of input and output signal adjusted via DIP switch
- Accuracy < 0.1 % of full scale
- Complete galvanic isolation
- Input reverse-polarity protected
- 6.2 mm width
- UL: Class1, Div 2, Group A, B, C, D; GOST



Dimensions

Type	IMS-AI-UNI/24V
ID	7504009
Nominal voltage	24 VDC
Operating voltage	16.8...30 VDC
Power consumption	≤ 0.312 W
Residual ripple	≤ 5 mV _{ss}
Voltage input	0/2...10 VDC
Input resistance (voltage)	≥ 330 kΩ
Input current	0/4...20 mA
Input resistance (current)	≤ 100 Ω
Output circuits	
Output current	0/4...20 mA
Output voltage	0...10 V
Load resistance voltage output	≥ 1 kΩ
Load resistance current output	≤ 0.4 kΩ
Response characteristic	
Rise time (10...90 %)	≤ 10 ms
Fall time (90...10 %)	≤ 10 ms
Measuring accuracy (including linearity, hysteresis and repeatability)	≤ 0.1 % of full scale
Temperature drift	≤ 0.00015 % of full scale/K
Galvanic isolation	
Test voltage	1.5 kV
Displays/Operating elements	
Operational readiness	Yellow
Mechanical data	
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	-20...+60 °C
Storage temperature	-40...+80 °C
Dimensions	114.5 x 6.2 x 90 mm
Weight	60 g
Mounting instructions	DIN rail (NS35)
Housing material	Polycarbonate/ABS
Electrical connection	Screw terminals
Terminal cross-section	2.5 mm ²
Tightening torque	0.5 Nm

