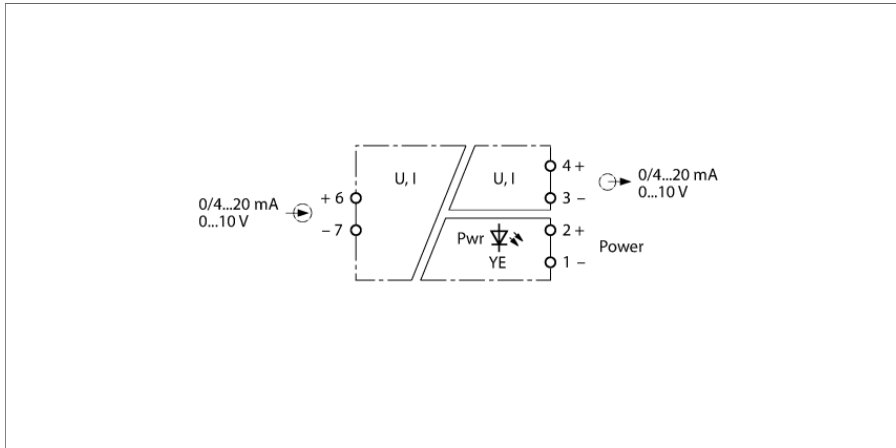


# Analog signal isolator

## 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
<b>Nominal voltage</b>	
Nominal voltage	24 VDC
Operating voltage $U_s$	16.8...30 VDC
Power consumption	$\leq 0.312$ W
Residual ripple	$\leq 5$ mV <sub>ss</sub>
<b>Voltage input</b>	
Voltage input	0/2...10 VDC
Input resistance (voltage)	$\geq 330$ k $\Omega$
Input current	0/4...20 mA
Input resistance (current)	$\leq 100$ $\Omega$
<b>Output circuits</b>	
Output current	0/4...20 mA
Output voltage	0...10 V
Load resistance voltage output	$\geq 1$ k $\Omega$
Load resistance current output	$\leq 0.4$ k $\Omega$
<b>Response characteristic</b>	
Rise time (10...90 %)	$\leq 10$ ms
Fall time (90...10 %)	$\leq 10$ ms
Measuring accuracy (including linearity, hysteresis and repeatability)	$\leq 0.1$ % of full scale
Temperature drift	$\leq 0.00015$ % of full scale/K
<b>Galvanic isolation</b>	
Test voltage	1.5 kV
<b>Displays/Operating elements</b>	
Operational readiness	Yellow
<b>Mechanical data</b>	
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	Plastic, Polycarbonate/ABS
Electrical connection	Screw terminals
Terminal cross-section	2.5 mm <sup>2</sup>
Tightening torque	0.5 Nm

