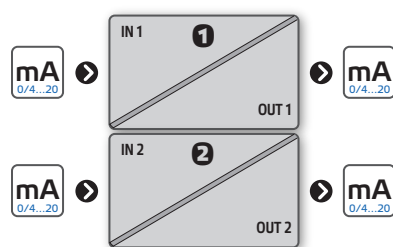


OMX 30PAS

Passive isolated transmitter SEPARATOR



- Input 0/4...20 mA
- Output 0/4...20 mA
- Burden < 1200 Ω
- Galvanic separation 4 kVAC

Option

HART transparent

The compact passive signal converter/isolator is designed for galvanic isolation and transmission of standard current signals 0/4...20 mA in industrial measurement and control systems. It does not require any external power supply.

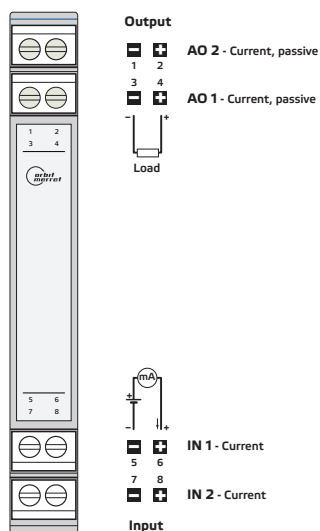
It is available in single-channel or dual-channel versions for DIN rail mounting. Galvanic isolation limits the occurrence of ground loops and increases the measurement system's resistance to interference and differences in ground potentials.

An optional HART-transparent version is also available, which allows bidirectional passage of HART digital communication along with the analog current signal.

The compact design and no need for external power supply enable easy installation in electrical cabinets even in space-constrained applications.

2

Connection



Note

Contactors, high power electric motors, frequency drives and other power devices should not be in a close proximity of the meter. Input signal leads (measured value) should be separated from all power lines and power devices. Even though the device has been designed and tested according to standards for industrial environment, we strongly advise to adhere to the above presented rules.

	0,05...2,5 mm ² 30...12 AWG	
	$\varnothing$ 3,5 mm $\varnothing$ 0.14 in	

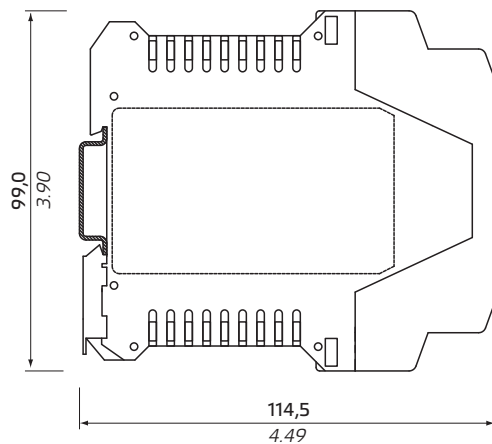
3

Instrument dimensions and installation

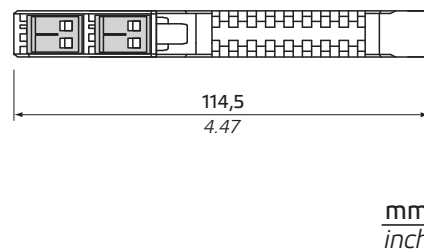
Front view



Side view



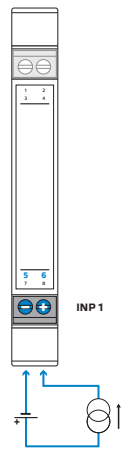
Top view



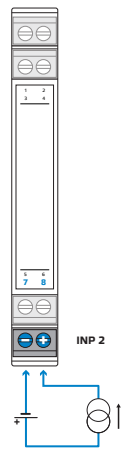
Installation to DIN rail of 35 mm width

Wiring diagram

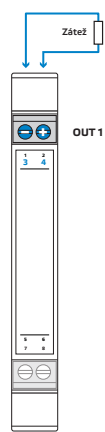
Input 1 - Current [mA]



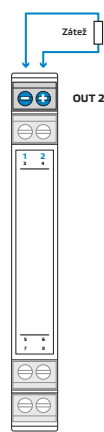
Input 2 - Current [mA]



Output 1 - Current [mA]



Output 2 - Current [mA]



4 Technical data

INPUT

No. of inputs	1 or 2, passive, the range is fixed
PAS Range	0...20 mA <2,8 V 4...20 mA <2,8 V Voltage drop across the device (input-output)
Range HART	0...20 mA <3,2 V 4...20 mA <3,2 V Voltage drop across the device (input-output)
Current	< 100 mA
Voltage	< 28 V

INSTRUMENT SPECIFICATIONS

TC	10 ppm/°C
Accuracy	±0,1% of FS
Rate	continuous measurement
Overload	10x (t < 30 ms), 2x
Calibration	at 25°C and 40 % r.h.

ANALOG OUTPUT

No. of outputs	1 or 2
Type	isolated, passive, fixed configuration
Burden	< 1200 Ω (I < 20 mA) Error < 0,0006 %/Ω
Ripple	< 0,2%
Rate	response to change of value < 1 ms
Range	0...20 mA 4...20 mA Maximum output current corresponds to the input current.

POWER SUPPLY

Loop-powered	3,5...28 VDC Minimum voltage depends on the actual load
Consumption	< 70 mW/channel

MECHANIC PROPERTIES

Material	PA66, incombustible UL 94 V-0, blue
Dimensions	114.5 x 99.0 x 12.5 mm
Installation	to DIN rail 35 mm wide

OPERATING CONDITIONS

Connection	connector terminal blocks, section < 2.5 mm²
Stabilization period	within 5 minutes after switch-on
Working temp.	-20°...60°C
Storage temp.	-20°...85°C
Working humidity	< 95 % r.h., non condensing
Protection	IP20
Construction	safety class I
El. safety	EN 61010-1, A2
Dielectric strength	4 kVAC per 1 min test between input and an. output 3 kVAC per 1 min test between input and an. output Applies to the HART-transparent version.
Insulation resist.*	for pollution degree II, measurement cat. III input, output > 630 V
EMC	EN 61326-1 (Industrial area)
RoHS	EN IEC 63000:2018
Seismic qualification	IEC/IEEE 60980-344 ed. 1.0:2020, par. 6, 9
Mechanical resistance	EN 60068-2-6 ed. 2:2008



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