

Resistor / analog converter WZ102



- Converts a variable resistance into an analog output signal
- Input ranges two-wire: 0-300 / 500 / 1000 Ohm
- Three-wire input ranges: 100 Ohm to 1 MOhm
- Output ranges 0/4 mA to 20 mA, 0/1 VDC to 5 VDC and 0/2 VDC to 10 VDC
- 19 VAC to 28 VAC- / 19 VDC to 40 VDC- Power supply
- 3-fold galvanic isolation supply/input/output

<https://www.wachendorff-prozesstechnik.de/en/WZ102>

Description

The WZ102000 resistor/analog converter converts an ohmic resistor from 0 to 1 KOhm or a potentiometer from 100 Ohm to 1MOhm into an analog output signal from 0/1 VDC to 5 VDC, 0/2VDC to 10 VDC or 0/4 mA to 20 mA. The device is easy to program with its DIP switches. The device is simply snapped onto the top-hat rail for installation.

Product details

Channels:	1 input: Variable resistors (2 wire): 0 Ohm to 300 Ohm (I = 6 mA), 0 Ohm to 500 Ohm (I = 3.6 mA), 0 Ohm to 1 kOhm (I = 1.8 mA). Potentiometer (3 wire) from 100 Ohm to 1 MOhm (Vref = 1.8 VDC). 1 output: Voltage range: 0/2 VDC to 10 VDC or 0/1 VDC to 5 VDC Current range: 0/4 mA to 20 mA
Burden	V > 2 kOhm, A < 600 Ohm
Resolution	12 bit
Accuracy:	20 Hz to 400 Hz sinusoidal: 0.3 % 400 Hz to 1000 Hz sinusoidal: 0.5 %
Linearity:	20 Hz to 400 Hz sinusoidal: 0.1 % 400 Hz to 1000 Hz sinusoidal: 0.2 %
Temperature coefficient	0,02 % / °C
Response time	< 200 ms
Insulation	Galvanic 3-way isolation, Test voltage 1.5 kV (50 Hz, 1 minute)
Supply	19 VDC to 40 VDC, 19 VAC to 28 VAC (50 Hz to 60 Hz), max. 2.5 W
Scaling	Linear
Safety:	EN61010-1:2013-10
EMC:	EN61000-6-2:2006-10 EN61000-4-4:2013-01 EN61000-6-4:2007-11 + A1:2013-01 EN61000-4-5:2015-05 EN61000-4-2:2011-04 EN61000-4-6:2014-09 EN61000-4-3:2007-04 + A1:2009-01 + A2:2011-01 EN61000-4-11:2006-02
Display	LED, operating voltage present
Assembly	35 mm top-hat rail

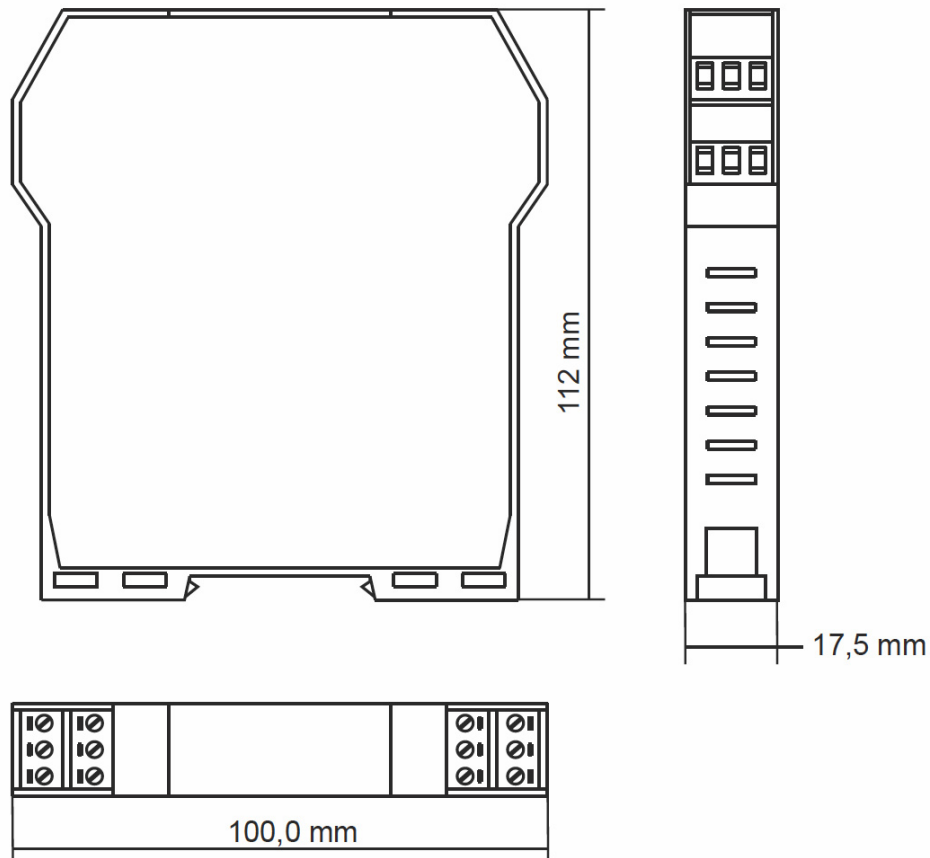
Ambient conditions	Working temperature: 0 to +55 °C Storage temperature: -20 to +70 °C Humidity: 30 to 90 %non-condensing
Dimensions (W x H x D)	17.5 mm x 100 mm x 112 mm
Weight	approx.: 200 g
Manufacturer:	Seneca s.r.l.

Products Order no.

WZ102000	Isolating transformer ohm/current/voltage
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Drawings

Dimensions:



Drawings

Connections:

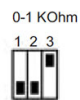
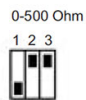
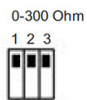
Spannungsversorgung

$19 \div 28 \text{ V} \sim$
 $19 \div 40 \text{ V} =$



Eingang

Veränderlicher Widerstand (2 Draht)

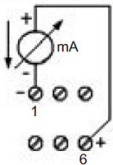


Potentiometer (3 Draht)
100 Ohm bis 1 MOhm

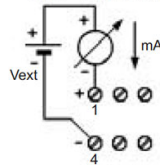


Ausgang

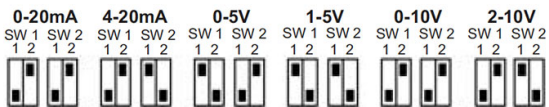
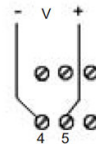
Strom - Aktiver Ausgang



Strom - Passiver Ausgang



Spannung



Anschlüsse

- 1 - Ausgang Strom (aktiv)/+ Ausgang Strom (passiv)
- 2 19 - 28 VAC 50-60 Hz oder 19 -40 VDC
- 3 19 - 28 VAC 50-60 Hz oder 19 -40 VDC
- 4 - Ausgang Spannung/- Ausgang Strom (passiv)
- 5 + Ausgang Spannung
- 6 + Eingang Strom (aktiv)
- 7 Eingang Widerstandssignal
- 8 Eingang Widerstandssignal
- 9 Eingang Widerstandssignal



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