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Transducer for measurement DC current or voltage

- measured and galvanically isolated the input DC current or voltage signal
- allows bipolar input and output signal
- directly current measurements up to 10A, voltage up to 1000V DC
- ability to measure absolute values and inverted signal
- isolation input-output-power supply: 4000Vef
- universal auxiliary power supply 19 – 300V DC and 90 – 250V AC
- conversion accuracy 0,1%
- response time < 50ms, include transmission delay 8ms
- compact design
- designed for DIN 35 rail mounting

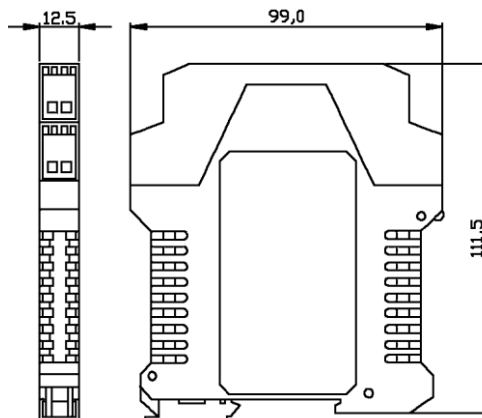
The transducer is used to measure and galvanic isolation of input signals from shunt resistors, voltage dividers and other sources of DC signal. After processing the input signal via A / D converter, the signal is optically transmitted to the output amplifier. The converter output is an analog signal is active galvanically isolated from the input and the auxiliary power supply.



Electrical specifications:

- operating temperature range: -25 ... +70°C
 - storage temperature range: -40 ... +80°C
 - supply voltage: universal 19 – 300V DC and 90 – 250V AC to order 20 – 60V AC
 - consumption: max. 1,5VA
 - protection: resettable thermal cut-out in primary circuit
 - input signal ranges: from ±50uA to ± 10A, from±10mV to ±1000V
 - impedance voltage input: min. 100kohm, max.13Mohm
 - current input voltage drop: 0,54V for 20mA
about 5mV for 10A
4-20mA, 0-20mA, 0-10V,
other after agreement
 - output: 15V / Iout (ohm)
 - maximum burden of current loop: max. 10mA
 - maximum current of voltage output: 30mA
 - output current cut off: <0,1%
 - maximum transmission error: <0,05%
 - linearity error: < 50ppm/°C
 - temperature induced error: < 5mV RMS
 - output residual ripple: 4000Vrms
 - test voltage: < 50ms
 - response time: 90g
 - weight: IP30
 - protection housing: IP20
 - protection terminal board: pollution level2
 - working environment: isolation level:
 - max.working voltage across isolation
overvoltage category instalation
- | | |
|----------|------------|
| basic | reinforced |
| up 1000V | up 1000V |
| up 1000V | up 600V |
| up 600V | up 300V |

Dimensional drawing:



Terminals:

- 1... minus pole input signal GND
- 2... plus pole input current
- 3... plus pole input voltage
- 5,6..output signal (6 is +)
- 7,8..auxiliary power supply without polarity

7	8
5	6+
ISOL 200/DC	
3+	4+
1	2+

Ordering example:

3pcs ISOL200/DC
-60..0..+60mV/4..20mA

Type test:

Basic type test: in compliance with ČSN EN 60770-1 ed.2
EMC: in compliance with ČSN EN 61326-1
Safety: in compliance with ČSN EN 61010-1

Ordering instructions:

Your order should include:
- transducer type
- input range
- output range
- quantity (No. of pieces)

Installation:

The terminals accept wires up to 2,5 mm². We recommend using a cable with a cross section of 0,5mm². Mechanically, the transducers are mounted on 35 mm DIN rail. After hanging to the rail has to be the bottom of the unit pushed to the rail. The latch on the bottom of the unit snaps it to the rail. Demounting is done with a screwdriver. After releasing the latch you can removed unit from the rail.



Likvidaci po ukončení životnosti provést odděleným sběrem.
Rawet s.r.o. je členem sdružení RETELA www.retela.cz

rev.2