

### Description

The transmitters series PI are proposed for signal conversion from resistive temperature sensors Pt100, Pt500, Pt1000, Ni1000, Ni10000, resistive sensors OV100 (0 to 100 Ω), OV105 (5 to 105 Ω) and OV1000 (0 to 1000 Ω) and voltage input 0 to 10V to the standard current signal 4 to 20mA or 0 to 20mA. The output signal has got a linear temperature or resistance dependence. The transmitters are supplied by 24 Vdc. The transmitters are not equipped with galvanic separation between input and output signals. The given degree of ingress protection and possibility of fitting on the mounting bar DIN TS 35 determine the transmitters for use in the distribution cases, boards and panels.

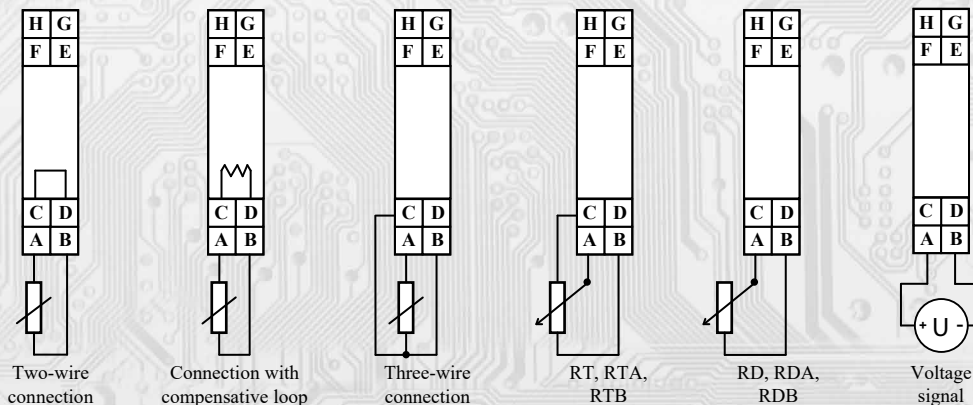
### Summary of types

TYPE	INPUT	TYPE	INPUT
PI-1P	Pt100	PI-1RT	OV100 3-wire connection
PI-1PA	Pt1000	PI-1RD	OV100 2-wire connection
PI-1PB	Pt500	PI-1RTA	OV105 3-wire connection
PI-1L	Ni1000/5000 ppm	PI-1RDA	OV105 2-wire connection
PI-1S	Ni1000/6180 ppm	PI-1RTB	OV1000 3-wire connection
PI-1J	Ni891/6371 ppm	PI-1RDB	OV1000 2-wire connection
PI-1SA	Ni10000/6180 ppm	PI-1RU3	0 + 10V

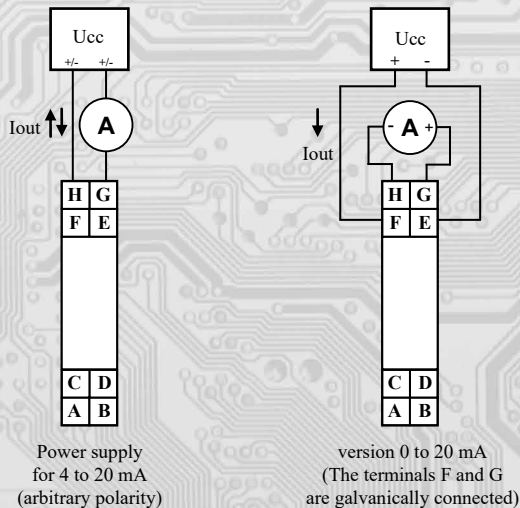
### Technical parameters

Power supply	11 ÷ 35 Vss	Ambient temperature	-20 ÷ 60°C
Load resistance R <sub>Z</sub>	< (U <sub>cc</sub> - 11) x 50 [Ω]	Storage temperature	-20 ÷ 80°C
Sensing element short	< 3 mA	Relative humidity	< 80 %
Sensing element break	> 24 mA	Terminal board	max. diameter 1,5 mm <sup>2</sup>
Measurement error	< 0,8 %	Dimension	18 x 62 x 64 mm

### Wiring - inputs signals



### Wiring diagram of output signals



Power supply for 4 to 20 mA (arbitrary polarity)

version 0 to 20 mA (The terminals F and G are galvanically connected)

