

### Description:

The quick-acting temperature sensors are designed for general-purpose application in control and regulation systems for the temperature measurement in the pipeline in systems with high demands on speed of response. The temperature element is located in the stem. The head of sensor is made of polycarbonate, cover is provided with quick-locking screws, material of the stem is stainless steel (DIN 1.4601). The converter temperature - current or temperature - voltage, which is positioned in the transducer head, is not provided with a galvanic separation.

### Basic technical parameters

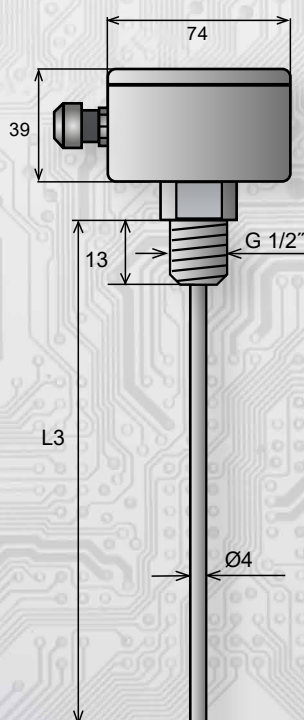
Sensing element	Pt1000	
Measurement error	< 0,6 %	
	(P16I)	(P16U)
Output signal	4 ÷ 20 mA	0 ÷ 10 V
Power supply $U_{cc}$	11 ÷ 35 VDC	18 ÷ 30 VDC
Load resistance	$R_z < (U_{cc} - 11) \times 50 [\Omega]$	$R_z > 50 \text{ k}\Omega$
Sensing element break	$I_z > 24 \text{ mA}$	$U_v > 12 \text{ V}$
Sensing element short	$I_z < 3 \text{ mA}$	$U_v \sim 0 \text{ V}$
Ambient temperature	-30 ÷ 80 °C	
Response velocity	$\tau_{63} < 8 \text{ s}$	
Relative humidity	< 80%	
Material	material polycarbonat, blue colour (grey on request)	
Protection type	IP 30	
Terminal board	COB 5/2, wire cross section 0,35 ÷ 2,5 mm <sup>2</sup>	

### Temperature ranges

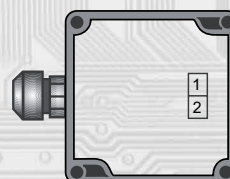
-30 ÷ 60 °C
0 ÷ 35 °C
0 ÷ 50 °C
0 ÷ 100 °C
0 ÷ 150 °C

L3 = 100 or 160 mm

### Dimensions

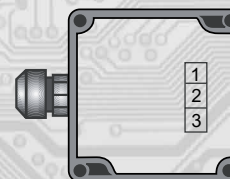


Wiring diagram - P13I



1,2: current loop arbitrary polarity

Wiring diagram - P13U



1: positive pole of the supply source  
2: negative pole of the supply source  
3: 0 to 10 V output