

### Description:

The surface contact sensor is used for temperature detection on piping and tubes (e.g. cold-water or hot-water), or on heating sections for heating system control. The head of sensor is made of polycarbonate, cover is provided with quick-locking screws. The converter temperature - current or temperature - voltage, which is positioned in the transducer head, is not provided with a galvanic separation.

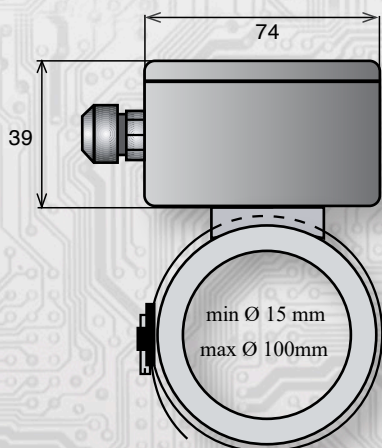
### Basic technical parameters

Sensor	Pt1000	
Measurement error	< 0,6 %	
	(P14I)	(P14U)
Output signal	$4 \div 20 \text{ mA}$	$0 \div 10 \text{ V}$
Power supply $U_{cc}$	$11 \div 35 \text{ VDC}$	$18 \div 30 \text{ VDC}$
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	$-30 \div 80 \text{ }^\circ\text{C}$	
Relative humidity	< 80%	
Material	material polycarbonat, blue colour (grey on request)	
Protection type	IP 30	
Terminal board	COB 5/2, wire cross section $0,35 \div 2,5 \text{ mm}^2$	

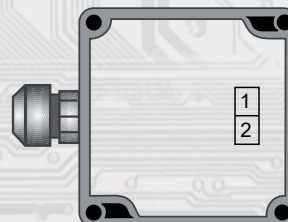
### Temperature range

$-30 \div 60 \text{ }^\circ\text{C}$
$0 \div 35 \text{ }^\circ\text{C}$
$0 \div 50 \text{ }^\circ\text{C}$
$0 \div 100 \text{ }^\circ\text{C}$
$0 \div 150 \text{ }^\circ\text{C}$

### Dimensions

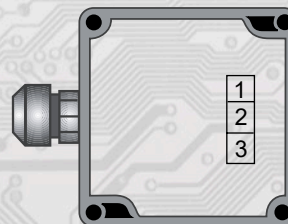


### Wiring diagram for P13I



1,2: current loop  
arbitrary polarity

### Wiring diagram for P13U



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