



SBx



P10x

Description

The resistance temperature sensors series **P10x** and **SBx** are redesigned for temperature measuring in the interior applications. Sensors are provided with degree of protection IP30. The series SBx are suitable for application with higher demands on the aesthetic design. Both versions are intended for the direct mounting on the wall. The sensors can be used with all control systems compatible with the sensing elements listed in the table. Also it is possible to order others type of the sensors such as KTY, Dallas, SMT160-30, NTC etc. The sensors are designed for installation in the areas protected from influence of high humidity.

Technical parameters:

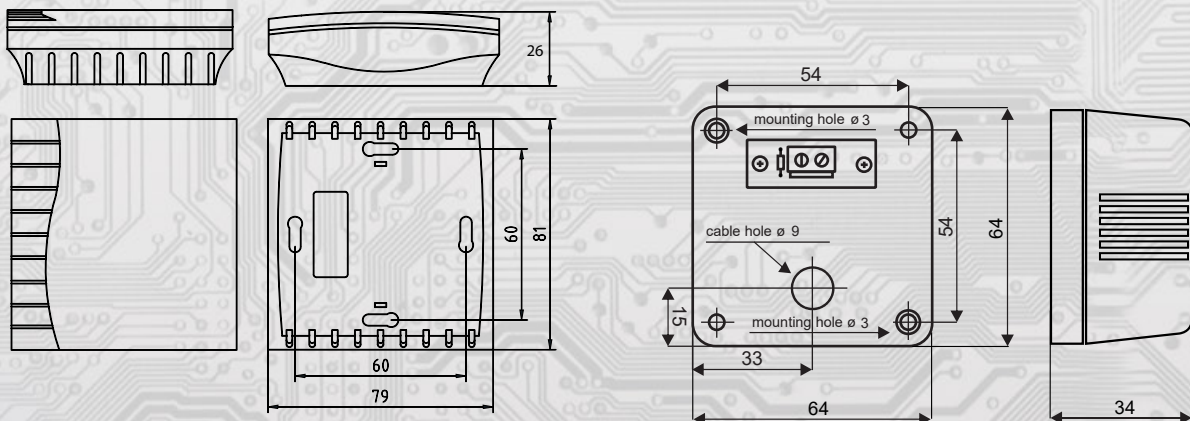
Measuring range	-30 ÷ 70 °C
Sensor	see table
Connection	two wire (on request 3 or 4-wire)
Accuracy	class B, IEC 751 (Pt100, Pt500, Pt1000) class B, DIN 43760 (Ni1000, Ni10000, Ni891, Ni2226) ± 1 °C (NTC20kΩ)
Material	P10x – ABS, grey colour (on request white) SBx – ABS, white colour
Insulance	> 100 MΩ at 25 °C (500 V DC)
Degree of protection	IP 30 (EN 60529)
Terminal board	P10x – COB 5/2, diameter 0,35 ÷ 2,5 mm ² SBx – CPP, max. diameter 1 mm ²
Variants	P10x, SBx - (one sensing element) 2P10x, 2SBx - (two sensing elements) x = P, PA, PB, S, L, J, SA, H or N

Summary of types:

Version	P10P	P10PA	P10PB	P10S	P10L	P10J	P10SA	P10H	P10N
Version	SBP	SBPA	SBPB	SBS	SBL	SBJ	SBSA	SBH	SBN
Sensing element	Pt100	Pt1000	Pt500	Ni1000/6180	Ni1000/5000	Ni891	Ni10000/6180	NTC 20kΩ	Ni2226
Recommended current	1 mA	0,5 mA	0,5 mA	0,5mA	0,5 mA	0,5 mA	0,2 mA	*	0,5 mA
Current max.	5 mA	3 mA	3 mA	3 mA	3 mA	3 mA	0,5 mA	*	1 mA

* the sensors P10H and SBH are non-linear, we recommended max. power loss 10 mW

Dimension



wiring

