



SBx



P10x

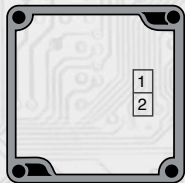
Description:

The resistance temperature transducers series P10x and SBx are designed for temperature measuring in the interior applications. Transducers 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. As the temperature sensor is used Pt1000 resistance element, which is placed in a metal enclosure at the sensors P10I and SBI. The converter temperature - current or temperature - voltage is not provided with a galvanic separation.

Basic technical parameters

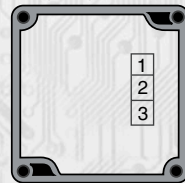
Sensor	Pt1000	
Measurement error	< 0,6 %	
	(P10I - SBI)	(P10U - SBU)
Output signal	4 ÷ 20 mA	0 ÷ 10 V
Power supply U _{cc}	11 ÷ 35 VDC	18 ÷ 30 VDC
Load resistance	R _z < (U _{cc} -11) x 50 [Ω]	R _z > 50 kΩ
Sensing element break	I _z > 24 mA	U _v > 12 V
Sensing element short	I _z < 3 mA	U _v ~ 0 V
Ambient temperature	-30 ÷ 80 °C	
Relative humidity	< 80%	
Material	P10x-ABS, grey colour (on request white)	
	SBx-ABS, white colour	
Protection type	IP 30	
Terminal board	P10x-COB5/2, diameter 0,35 ÷ 2,5 mm ²	
	SBx-CPP, max. diameter 1 mm ²	

Wiring diagram for P10I



1,2: current loop arbitrary polarity

Wiring diagram for P10U

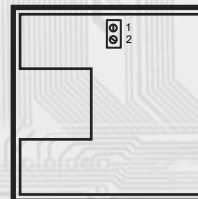


1: positive pole of the supply source
2: negative pole of the supply source
3: 0 to 10 V output

Temperature range

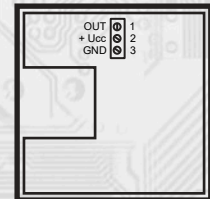
-30 ÷ 60°C
0 ÷ 35°C
0 ÷ 50°C
0 ÷ 100°C

SBI 4-20mA



1,2: current loop arbitrary polarity

SBU 0-10V



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

Dimensions

