

Description

The resistance temperature sensors series **P10x** and **RK-x** are redesigned for temperature measuring in the interior applications. Sensors are provided with degree of protection IP30. The series **RK-x** 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.

RK-x



P10x

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) RK-x – 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 RK-x – CPP, max. diameter 1 mm ² |
| Variants | P10x, RK-x -(one sensing element) 2P10x, 2RK-x -(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 RK-H are non-linear, we recommended max. power loss 10 mW

Dimensions

