

The sensors PTC99 can be used with control system Johnson Controls - equivalent to the sensors type A99. The head of sensor is made of polycarbonate, cover is provided with quick-locking screws, all metallic parts are made of class DIN 1.4301 stainless steel. The operation conditions are met by conventional, chemically non aggressive environment, in which neither attendance nor maintenance is required by the sensors.

### Main technical parameters

Measurement error	viz. graf
Teplota okolí hlavice	see table
Relative humidity	< 80%
Krytí	IP 65 *
Current load	$I_{max} < 10mA$
Maximální průřez vodičů	$2,5 mm^2$
Typ svorkovnice	COB 5/2
Doporučený Ø přívod. kabelu	4 až 8 mm

\* Interior sensors - IP30

### Technical description, execution

P10JA, SBJA  
P11JA, PL11JA

- sensor for temperature measuring in interior applications.
- sensor are designed for temperature measuring of outdoor air. They are provided with a plastics console for attaching to a wall;

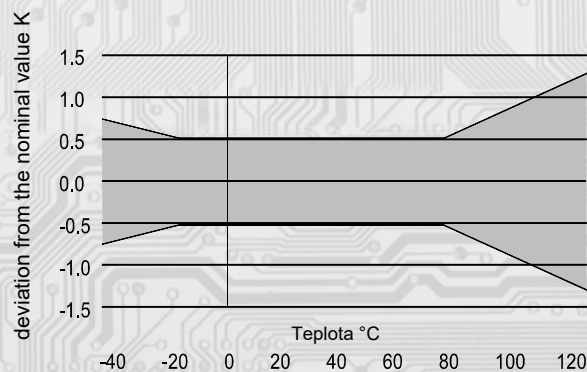
P12JA-L1  
P13JA-L2

- sensor execution for mounting into air conditioning ducts.
- the sensors are designed for measuring operations in pipelines. As an accessory, a part of the sensors a stainless steel well fitted with a thread G 1/2: of length L2 mm, which was tested for pressure of 4,0 MPa.

P14JA, P15JA  
SK2JA-2SS-x, SK2JA-2PS-x

- surface contact sensors
- sensors 6x60mm, stainless steel, x= length of the cable, Silicon cable -SS, PVC cable - PS)

### Accuracy of the sensor



### Method of ordering

State the quantity of pieces and the transducer type in your order.

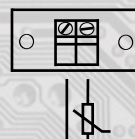
An order example: **5 pieces transducer** P13JA-100

Transducer type

Well length



### wiring

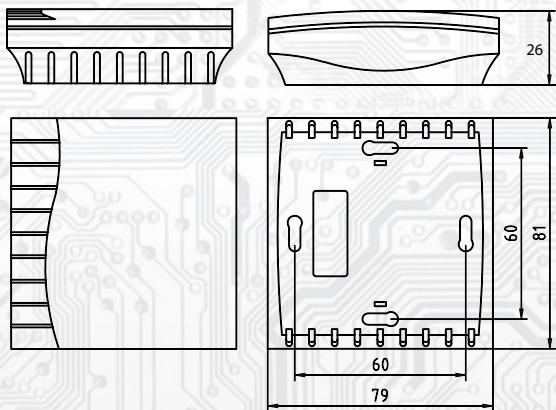


### Standard lengths L1 and L2

L1 (mm)	L2 (mm)
120	100
180	160
240	220
300	280
360	340
420	400

### Dimensions and accessories

#### SBJA

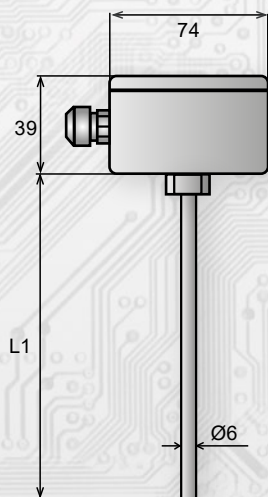


### The relationship between sensor temperature and resistance

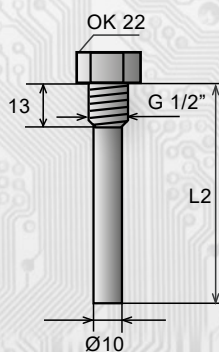
Teplota (°C)	Odpor (Ω)
-40	613
-35	640
-30	668
-25	697
-20	727
-15	758
-10	789
-5	822
0	855
5	889
10	924
15	960
20	997
25	1035
30	1074
35	1113

Teplota (°C)	Odpor (Ω)
40	1153
45	1194
50	1236
55	1279
60	1323
65	1368
70	1413
75	1459
80	1506
85	1554
90	1602
95	1652
100	1702
105	1753
110	1805
115	1857
120	1909

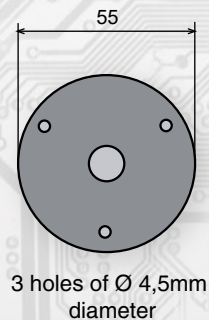
#### P12JA



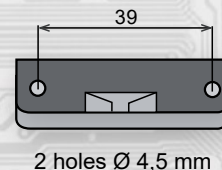
#### Thermowell



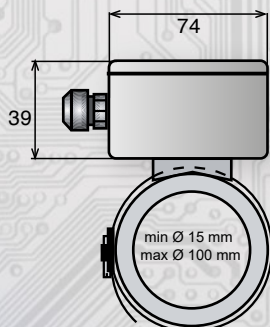
#### Central holder for - P12JA



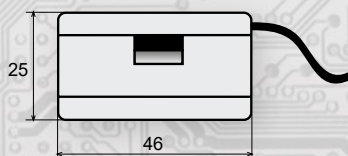
#### Side holder A - for P11JA



#### Strap - Mount with head - P14JA



#### Contact sensor with a cable - P15JA



Maximum temperature of the measured surface  $t_p < 120^\circ\text{C}$

#### Interior type - P10JA

