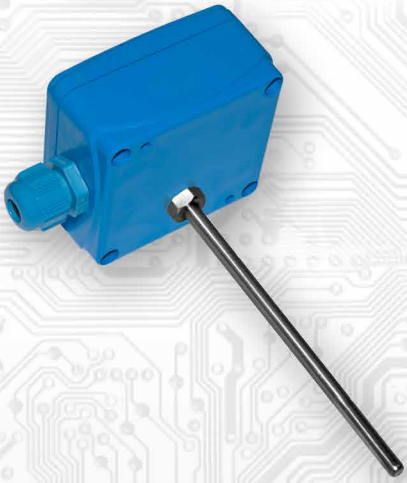
Duct temperature sensor - plastic head

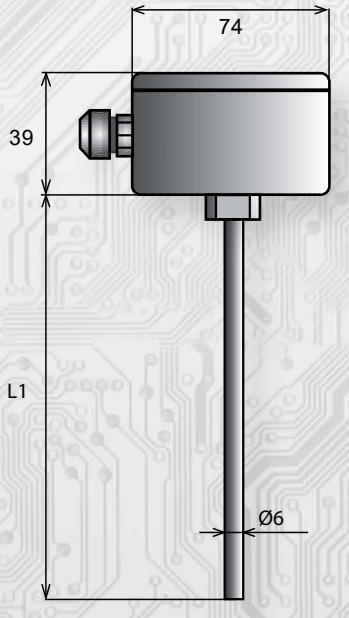


Description

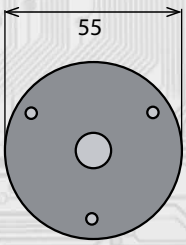
The resistance temperature sensors are designed for general - purpose application in control and regulation systems for the temperature measurement in airflows, and for the detection temperatures in gaseous media, e.g. in ventilation and in air conditioning ducts. The sensing element is located in the stem. The head of sensor is made of the plastic material, cover is provided with quick-locking screws, the stem is made of stainless steel (DIN 1.4301). The device is delivered with plastic console (central holder type A).

Technical parameters:

Measuring range	-30 ÷ 250 ºC (Pt100, Pt500, Pt1000) -30 ÷ 200 ºC (Ni1000, Ni10000, Ni891, Ni2226) -30 ÷ 150 ºC (NTC 20kΩ)
Sensing element	see the table below
Connection	2 (on request 3 or 4) wiring
Accuracy	class B, IEC 751 (Pt100, Pt 500, Pt1000) class B, DIN 43760 (Ni1000, Ni10000, Ni891, Ni2226) ± 1 ºC (NTC20kΩ)
Head	material polycarbonat, blue colour (grey on request) surrouding´s temperature -30 ÷ 80 ºC
Stem	stainless steel, DIN 1.4301, Ø = 6 mm, length of stem L1: see the table below
Insulation resistance	> 100 MΩ at 25 ºC (500 V DC)
Protection type	IP 65 (EN 60529)
Relative humidity	< 95 %
Terminal board	COB 5/2, wire cross section 0,35 ÷ 2,5 mm²
Cable gland	PG9, wire diameter 4 ÷ 8 mm
Versions	P12x - L1 (one sensing element) 2P12x - L1 (two sensing elements) x = P,PA, PB, S, L, J, SA, H or N



Central holder

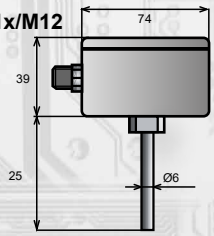


3 holes of ⁴ 4,5mm diameter

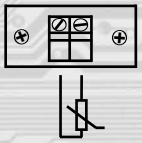
Standard length

L1 (mm)
120
180
240
300
360
420

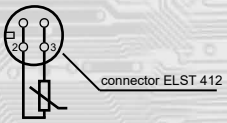
P11x/M12



Wiring



wiring



Summary

Sensor	P12P	P12PA	P12PB	P12S	P12L	P12J	P12SA	P12H	P12N
Sensing element	Pt100	Pt1000	Pt500	Ni1000/6180	Ni1000/5000	Ni891	Ni10000/6180	NTC 20kΩ	Ni2226
Recommended measurement current	1 mA	0,1 mA	0,7 mA	0,1 mA	0,1 mA	0,1 mA	0,01 mA	*	0,1 mA
Max. measurement current	5mA	1 mA	3 mA	1 mA	1 mA	1 mA	0,5 mA	*	0,7 mA

On the request sensors can be supplied with two measuring elements or sensors with other types of measuring elements such as NTC, PTC, KTY etc

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