

PY-Series - Polymer Surface Pt Temperature Sensor

Temperature range -20 °C to +110 °C

Performance Characteristics

- Ideal surface contact sensor
- Robust polymer housing
- Abrasion resistant jacketed cable
- Ease of mounting by through hole
- Highly resistant against most chemicals
- According to DIN EN 60751

Application Examples

- PV module management
- HVAC
- Data logging
- General purpose surface sensing

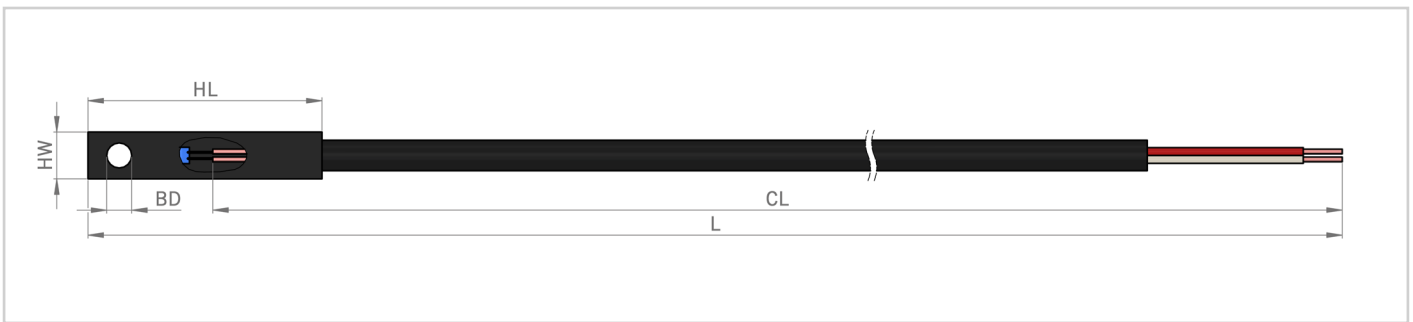


Image for illustration purposes only

Dimensions and Materials

No.	Product Type	Element Resistance R_0 [Ω]	Dimensions and Tolerances (mm)					Conductor			Order Number
			HL	HW	CL	BD	L	Core (AWG)	Insulation	Color	
1	PY3060-S-B32	Pt100 / F 0.3	30 ± 0.1	6 ± 0.1	2514 ± 8	3.2 ± 0.1	2530 ± 10	24/07 Cu	PVC/PVC	White/ Red	31600393
2	PY3060-S-B32	Pt1000 / F 0.3	30 ± 0.1	6 ± 0.1	2514 ± 8	3.2 ± 0.1	2530 ± 10	24/07 Cu	PVC/PVC	White/ Red	30504002
3	PY3060-S-B32	Pt100 / F 0.3	30 ± 0.1	6 ± 0.1	3014 ± 8	3.2 ± 0.1	3030 ± 10	24/07 Cu	PVC/PVC	White/ Red	5145162

PY-Series - Polymer Surface Pt Temperature Sensor

Temperature range -20 °C to +110 °C

Performance Data

No.	Temperature Range	Response Time Water ($v = 0.4 \text{ m/s}$)		Conductor Resistance [Ω/m]	Application
		T0.5 [s]	T0.9 [s]		
1	-20 °C to +110 °C	11.5	32	0.08 \pm 10 %	Multi-Purpose
2	-20 °C to +110 °C	11.5	32	0.08 \pm 10 %	Multi-Purpose
3	-20 °C to +110 °C	11.5	32	0.08 \pm 10 %	Multi-Purpose

Temperature Coefficient

TCR = 3850 ppm/K

Measuring Current

Pt100 Ω : 0.3 to 1.0 mA

Pt1000 Ω : 0.1 to 0.3 mA

(self-heating has to be considered)

Self-Heating (Sensor Element)

0.4 K/mW at 0 °C

Customization Options

- Sensor element (type and resistance)
- Cable material (core and insulation)
- Cable dimensions (length and diameter)
- Connectors
- Certifications (e.g. IMDS, PPAP, IP rating)

Need more information?
Check out our
Sensor Academy!



RoHS
compliant

The information provided in this data sheet describes certain technical characteristics of the product, but shall not be qualified or construed as quality guarantee (Beschaffenheitsgarantie) in the meaning of sections 443 and 444 German Civil Code. The information provided in this data sheet regarding measurement values (including, but not limited to, response time, long-term stability, vibration and shock resistance, insulation resistance and self-heating) are average values that have been obtained under laboratory conditions in tests of large numbers of the product. Product results or measurements achieved by customer or any other person in any production, test, or other environment may vary depending on the specific conditions of use. YAGEO Nexensos does not recommend the use of standard catalogue products or automotive grades for aerospace applications or manned space flight. The customer is solely responsible to determine whether the product is suited for the customer's intended use; in this respect YAGEO Nexensos cannot assume any liability. The sale of any products by YAGEO Nexensos is exclusively subject to the General Terms of Sale and Delivery of YAGEO Nexensos in their current version at the time of purchase, which is available under www.yageo-nexensos.com/tc or may be furnished upon request. This data sheet is subject to changes without prior notice.