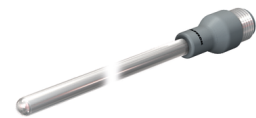


TP-206A-CF-H1141-L500

Temperature Detection – Probe



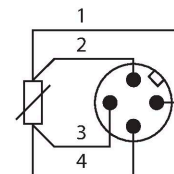
Technical data

Type	TP-206A-CF-H1141-L500
ID	9910491
Temperature range	
Measuring range	-50...500 °C
Measuring range	-58...932 °F
Accuracy	±0.15 K + 0.002 • t (-30...300 °C)
Self-heating	0.4 K/mW at 0 °C
Measuring element	Pt-100 probe, DIN EN 60751, class A, connection mode: 4-wire connection
Response time	t 0.5 = 6 s / t 0.9 = 15 s in water at 0.2 m/s
Immersion depth (L)	500 mm
Outer diameter	6 mm
Protection type and class	IP67
Environmental conditions	
Ambient temperature	-40...+120 °C
Storage temperature	-40...+85 °C
Mechanical data	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Sensor material	Stainless steel, 1.4404 (AISI 316L)
Process connection	For compression fittings, thermowell or direct mounting
Pressure resistance	100 bar
Electrical connection	Connector, M12 × 1
Reference conditions acc. to IEC 61298-1	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.

Features

- Pt 100 probe according to DIN EN 60751
- Resistant to vibrations and shocks
- Connectable to TS, TTM, IM34, BL20, BL67
- Max. temperature connector: 120°C
- Connection mode: 4-wire connection

Wiring diagram



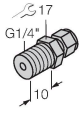
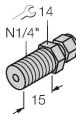
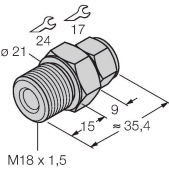
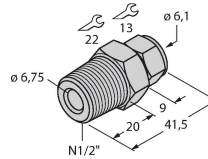
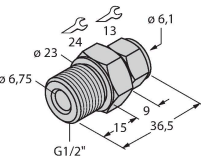
Functional principle

Resistance thermometers are used for the detection and monitoring of temperatures to optimize and control a process. Typical applications are in machine and plant construction as well as in the process industry. The core element of the temperature probe is a temperature-dependent resistor.

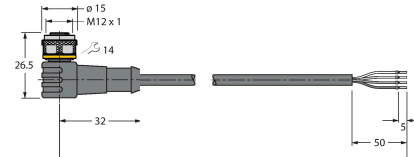
Technical data

Humidity	45...75 % rel.
Auxiliary power	24 VDC
Tests/approvals	
Approvals	cULus
UL registration number	E345414
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C

Accessories

<p>CF-M-6-G1/4-A4 9910483</p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection G1/4" male thread</p>  <p>Technical drawing showing a G1/4" male thread fitting with a sensor diameter of 6 mm. Dimensions include a length of 10 mm and a thread diameter of 17 mm.</p>	<p>CF-M-6-N1/4-A4 9910484</p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/4" NPT male thread</p>  <p>Technical drawing showing a 1/4" NPT male thread fitting with a sensor diameter of 6 mm. Dimensions include a length of 15 mm and a thread diameter of 14 mm.</p>
<p>CF-M-6-M18-A4 9910525</p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection M18 x 1 male thread</p>  <p>Technical drawing showing an M18 x 1 male thread fitting with a sensor diameter of 6 mm. Dimensions include a length of 35.4 mm, a thread diameter of 21 mm, and a sensor diameter of 6.1 mm.</p>	<p>CF-M-6-N1/2-A4 9910529</p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/2" NPT male thread</p>  <p>Technical drawing showing a 1/2" NPT male thread fitting with a sensor diameter of 6 mm. Dimensions include a length of 41.5 mm, a thread diameter of 22 mm, and a sensor diameter of 6.1 mm.</p>
<p>CF-M-6-G1/2-A4 9910530</p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection G1/2" male thread</p>  <p>Technical drawing showing a G1/2" male thread fitting with a sensor diameter of 6 mm. Dimensions include a length of 36.5 mm, a thread diameter of 23 mm, and a sensor diameter of 6.1 mm.</p>	

Accessories

Dimension drawing	Type	ID	
 <p>Technical drawing of a cable with an angled M12 female connector. Dimensions include a connector length of 26.5 mm, a cable length of 32 mm, and a total length of 50 mm.</p>	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval

Dimension drawing	Type	ID	
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval