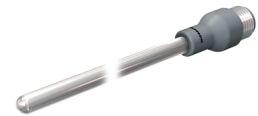
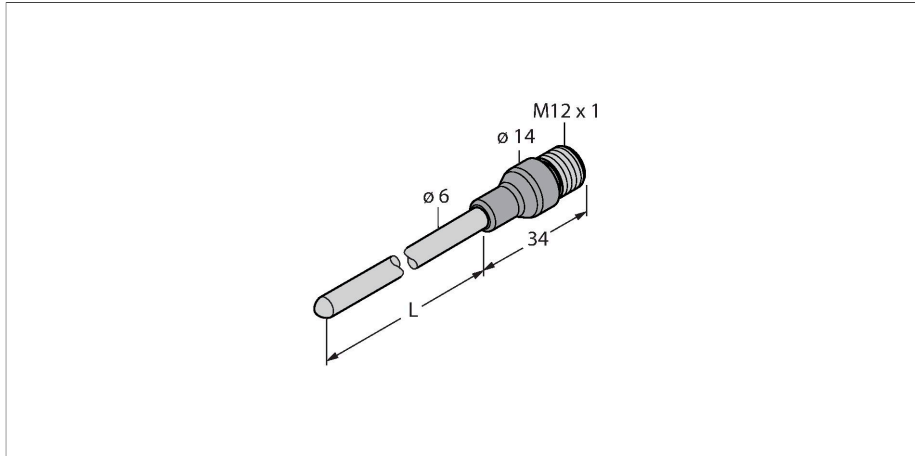


# TP-206A-CF-H1141-L600

## Temperature Detection – Probe



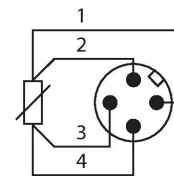
### Technical data

Type	TP-206A-CF-H1141-L600
ID	9910492
<b>Temperature range</b>	
Measuring range	-50...500 °C
Measuring range	-58...932 °F
Accuracy	$\pm 0.15 \text{ K} + 0.002 \cdot  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	$t_{0.5} = 6 \text{ s} / t_{0.9} = 15 \text{ s}$ in water at 0.2 m/s
Immersion depth (L)	600 mm
Outer diameter	6 mm
Protection type and class	IP67
<b>Environmental conditions</b>	
Ambient temperature	-40...+120 °C
Storage temperature	-40...+85 °C
<b>Mechanical data</b>	
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
<b>Reference conditions acc. to IEC 61298-1</b>	
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



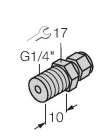
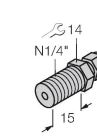
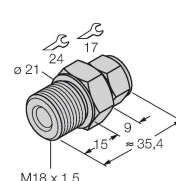
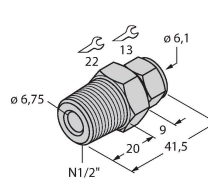
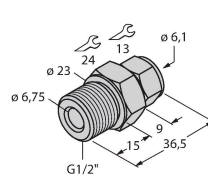
### Functional principle

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.

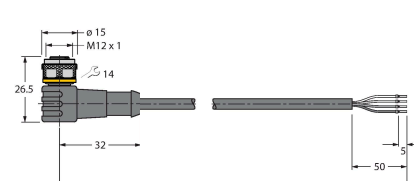
**Technical data**

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

**Accessories**

<p><b>CF-M-6-G1/4-A4</b></p> 	<p><b>9910483</b></p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection G1/4" male thread</p>	<p><b>CF-M-6-N1/4-A4</b></p> 	<p><b>9910484</b></p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/4" NPT male thread</p>
<p><b>CF-M-6-M18-A4</b></p> 	<p><b>9910525</b></p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection M18 x 1 male thread</p>	<p><b>CF-M-6-N1/2-A4</b></p> 	<p><b>9910529</b></p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/2" NPT male thread</p>
<p><b>CF-M-6-G1/2-A4</b></p> 	<p><b>9910530</b></p> <p>Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection G1/2" male thread</p>		

**Accessories**

Dimension drawing	Type	ID	
	<p>WKC4.4T-2/TEL</p>	<p>6625025</p>	<p>Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval</p>

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