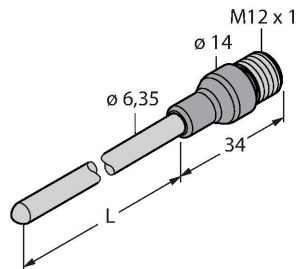


# TP-206.35A-CF-H1141-L500

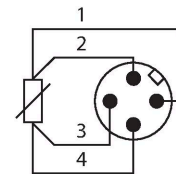
## Temperature Detection – Probe



### Features

- Max. temperature connector: 120°C
- Connection mode: 4-wire connection
- Probe with ¼ inch outside diameter

### Wiring diagram



### Technical data

Type	TP-206.35A-CF-H1141-L500
ID	9910824
<b>Temperature range</b>	
Measuring range	-50...500 °C
	-58...932 °F
Accuracy	±0.15 K + 0.002 •  t  (-30...300 °C)
Self-heating	0.4 K/mW at 0 °C
Measuring element	Pt100, 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	6.35 mm
Protection 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
Core cross-section	4 mm <sup>2</sup>
<b>Reference conditions acc. to IEC 61298-1</b>	
Temperature	15...+25 °C

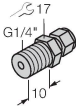
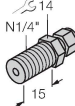
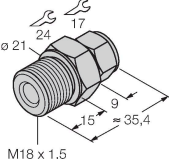
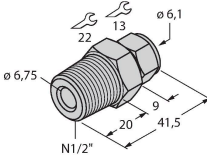
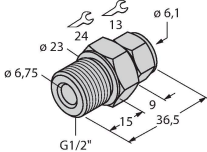
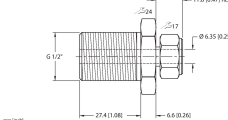
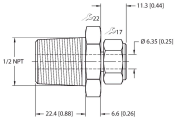

### Functional principle

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

Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.
Auxiliary power	24 VDC
Tests/approvals	
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C

Accessories

CF-M-6-G1/4-A4	9910483	CF-M-6-N1/4-A4	9910484
	Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection G1/4" male thread		Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/4" NPT male thread
CF-M-6-M18-A4	9910525	CF-M-6-N1/2-A4	9910529
	Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection M18 x 1 male thread		Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/2" NPT male thread
CF-M-6-G1/2-A4	9910530	CF-M-6.35-G1/2-A4	100027547
	Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection G1/2" male thread		Compression fitting for direct mounting of temperature probes; probe diameter 6.35 mm; G1/2" process connection, male thread
CF-M-6.35-N1/2-A4	100027548	CF-M-3-N1/8-A4	9910406
	Compression fitting for direct mounting of temperature probes; probe diameter 6.35 mm; N1/2" process connection, male thread		Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/8" NPT male thread