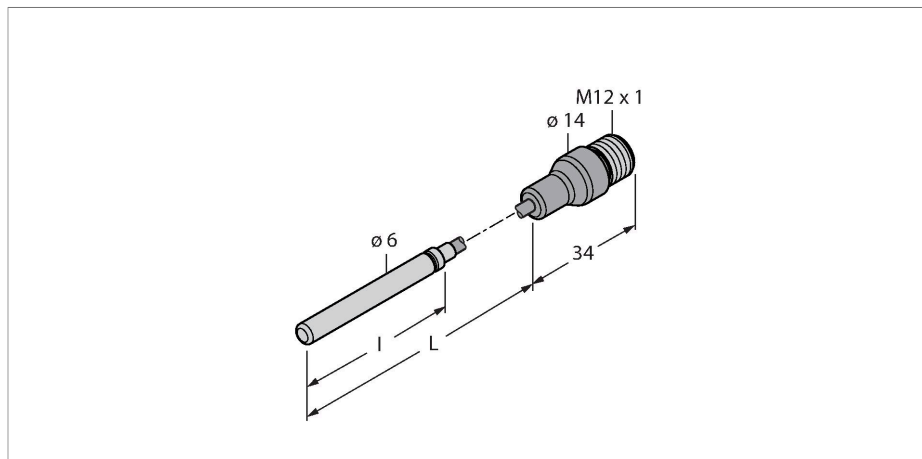


# TP-306A-CF-H1141-L2000

## Temperature Detection – Probe



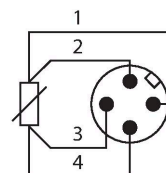
### Technical data

Type	TP-306A-CF-H1141-L2000
ID	9910480
<b>Temperature range</b>	
Measuring range	-50...105 °C
Measuring range	-58...221 °F
Accuracy	0.15 °C + 0.002 • t  (-30...350 °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 = 8 s / t 0.9 = 20 s in water at 0.2 m/ s
Immersion depth (L)	2000 mm
Length sleeve (I)	50 mm
Protection type and class	IP67
<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, for direct mounting
Electrical connection	Connector, M12 × 1
<b>Reference conditions acc. to IEC 61298-1</b>	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.

### Features

- Pt100 probe according to DIN EN 60751
- Resistant to vibrations and shocks
- Can be connected 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

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