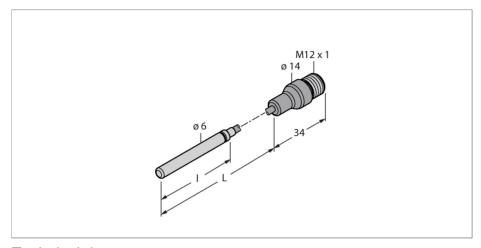


TP-306A-CF-H1141-L5000 Temperature Detection – Probe



Technical data

Туре	TP-306A-CF-H1141-L5000
ID	9910481
Temperature range	
Measuring range	-50105 °C
	-58221 °F
Accuracy	±0.15 K + 0.002 • t (-30300 °C)
Measuring element	Pt100, DIN EN 60751, class A; connection mode: 4-wire connection
Self-heating	0.4 K/mW at 0 °C
Response time	t 0.5 = 8 s / t 0.9 = 20 s in water at 0.2 m/ s
Immersion depth (L)	5000 mm
Mechanical data	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Process connection	For compression fittings, for direct mounting
Electrical connection	Connector, M12 × 1
Protection class	IP67
Tests/approvals	
UL registration number	E345414
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 °C
Atmospheric pressure	8601060 hPa abs.
Humidity	4575 % rel.

Features

■ 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
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C
Technical data	
Туре	TP-306A-CF-H1141-L5000
ID	9910481
Temperature range	
Measuring range	-50105 °C
	-58221 °F
Accuracy	±0.15 K + 0.002 • t (-30300 °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 = 8 s / t 0.9 = 20 s in water at 0.2 m/ s
Immersion depth L	5000 mm
Outer diameter	6 mm
Length sleeve (I)	50 mm
Protection class	IP67
Mechanical data	
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
Core cross-section	4 mm²
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 °C
Atmospheric pressure	8601060 hPa abs.
Humidity	4575 % rel.
Auxiliary power	24 VDC
Tests/approvals	
Approvals	cULus
UL registration number	E345414
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C