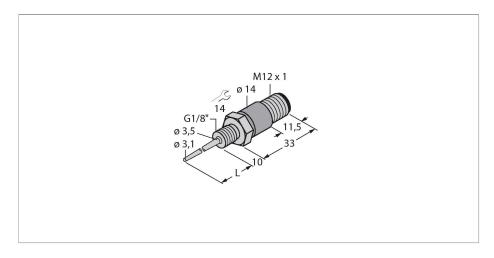


# TP-103A-G1/8-H1141-L013 Temperature Detection – Probe



# Technical data

Туре	TP-103A-G1/8-H1141-L013
ID	9910400
Temperature range	
Measuring range	-50120 °C
	-58248 °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 = 1.5 s / t 0.9 = 6.0 s in water at 0.2 m/s
Immersion depth L	13 mm
Outer diameter	3 mm
Protection class	IP67
Environmental conditions	
Ambient temperature	-40+120 °C
Mechanical data	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Sensor material	Stainless steel, 1.4404 (AISI 316L)
Process connection	G 1/8" male thread
Pressure resistance	100 bar
Electrical connection	Connector, M12 × 1
Core cross-section	4 mm <sup>2</sup>
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 °C
Atmospheric pressure	8601060 hPa abs.

### **Features**

- ■Max. temperature connector: 120°C
- Connection mode: 4-wire connection
- Process connection G1/8" male thread
- Electrical connection rotatable by 360°

# 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	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

## Accessories

