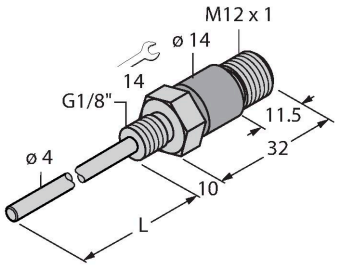
TP-104A-G1/8-H1141-L035
Temperature Detection – Probe



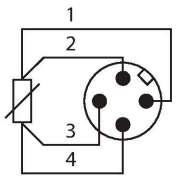
Technical data

Type	TP-104A-G1/8-H1141-L035
Ident. no.	9910840
Temperature range	
Measuring range	-50…120 °C
Temperature operating range	-58…248 °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
Response time	t 0.5 = 1.5 s/t 0.9 = 6.0 s in water at 0.2 m/s
Immersion depth (L)	35 mm
Protection type and class	IP67
Output function	4-wire
Ambient conditions	
Ambient temperature	-40…+120 °C
Housing	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Sensor material	Stainless steel, 1.4404 (AISI 316L)
Process connection	G1/8" male thread
Electrical connection	Connector, M12 × 1
Reference conditions acc. to IEC 61298-1	
Temperature	15…+25 °C
Atmospheric pressure	860…1060 hPa abs.

Features

- Pt-100 probe acc. to DIN EN 60751
- Vibration and shock-resistant
- Connectable to TS, TTM, IM34, BL20, BL67
- Max. temperature connector: 120°C
- 4-wire connection technology
- 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.

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Technical data

Humidity	45…75 % rel.
Auxiliary power	24 VDC
MTTF	2283 years acc. to SN 29500 (Ed. 99) 20 °C

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