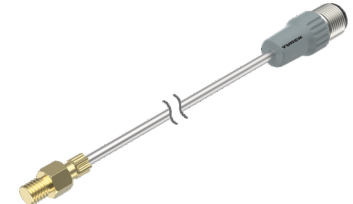
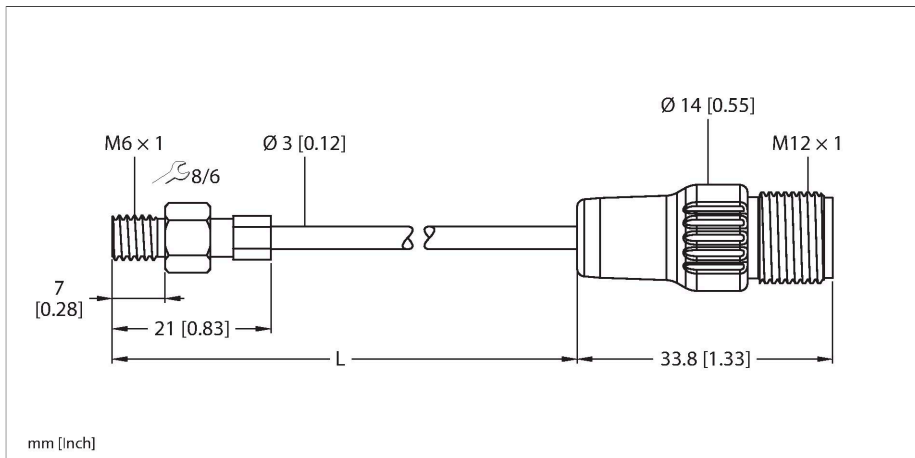


TP-203A-M6-H1141-L100-I7

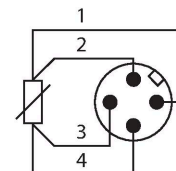
Temperature Detection – Probe



Features

- Pt 100 probe according to DIN EN 60751
- Resistant to vibrations and shocks
- Connectable to TS, TTM, IM34, BL20, BL67
- Max. temperature connector: 120 °C
- Connection mode: 4-wire connection
- Process connection: M6 × 1 male thread at probe tip

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

Type	TP-203A-M6-H1141-L100-I7
ID	100041106
Temperature range	
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
Bar length (L)	100 mm
Immersion length (l)	7 mm
Outer diameter	3 mm
Protection class	IP67
Environmental conditions	
Ambient temperature	-40...+120 °C
Storage temperature	-40...+85 °C
Mechanical data	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Sensor material	Stainless steel, 1.4404 (AISI 316L)
Process connection	M6 × 1 male thread
Pressure resistance	100 bar
Electrical connection	Connector, M12 × 1
Core cross-section	4 mm ²

Technical data

Reference conditions acc. to IEC 61298-1	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % 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

Dimension drawing	Type	ID	
	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval