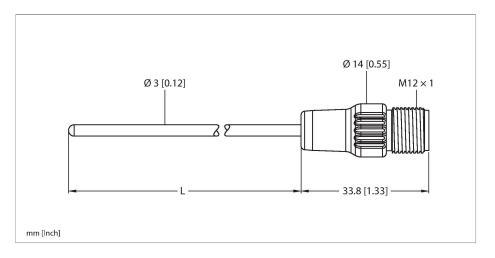


TP-203A-CF-H1141-L250 Temperature Detection – Probe





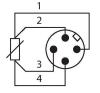
Туре	TP-203A-CF-H1141-L250		
ID	9910404		
Temperature range			
Measuring range	-50500 °C		
Measuring range	-58932 °F		
Accuracy	±0.15 K + 0.002 • t (-30300 °C)		
Self-heating	0.4 K/mW at 0 °C		
Measuring element	Pt-100 probe, DIN EN 60751, class A, connection mode: 4-wire connection		
Response time	t 0.5 = 1.5 s / t 0.9 = 6.0 s in water at 0.2 m/s		
Immersion depth (L)	250 mm		
Outer diameter	3 mm		
Protection type and 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	For compression fittings, thermowell or direct mounting		
Pressure resistance	100 bar		
Electrical connection	Connector, M12 × 1		
Reference conditions acc. to IEC 61298-1			
Temperature	15+25 °C		
Atmospheric pressure	8601060 hPa abs.		



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

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

CF-M-3-G1/8-A4

9910405

Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection G1/8" male thread

CF-M-3-N1/8-A4

9910406

Compression fitting for direct mounting of temperature sensors; sensor diameter 6 mm; process connection 1/8" NPT male thread

CF-M-3-G1/4-A4 9910407 CF-M-3-N1/4-A4 9910408

Compression fitting for direct Compression fitting for direct

mounting of temperature sensors; sensor diameter 3 mm; process connection G1/4" male thread

Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection 1/4" NPT male thread

Accessories

Dimension drawing	Туре	ID	
0 15 M12x1 265 14 265 	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12x1 o 15 14 14 115 115 115 115 115 115 115 11	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval



Dimension drawing	Туре	ID	
M12x1 015 50 14	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
015 M12x1 26.5 32	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval