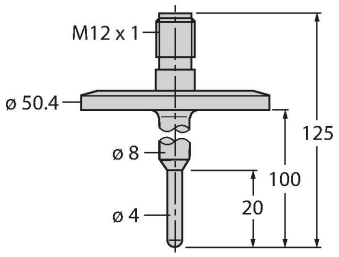
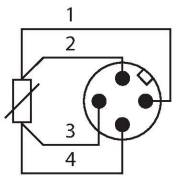
TP-504A-TRI1.5-H1141-L100
Temperature Detection – Probe



Features

- Max. temperature connector: 120°C
- Connection mode: 4-wire connection
- Process connection Tri-Clamp 1 1/2"

Wiring diagram



Technical data

Type	TP-504A-TRI1.5-H1141-L100
ID	9910860
Temperature range	
Measuring range	-50…120 °C
	-58…248 °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 = 3 s / t 0.9 = 10 s in water at 0.2 m/s
Immersion depth L	100 mm
Outer diameter	8 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), R_a ≤ 0.8 µm
Process connection	Tri-Clamp 1 1/2"
Pressure resistance	40 bar
Electrical connection	Connector, M12 × 1
Core cross-section	4 mm^2
Reference conditions acc. to IEC 61298-1	
Temperature	15…+25 °C
Atmospheric pressure	860…1060 hPa abs.

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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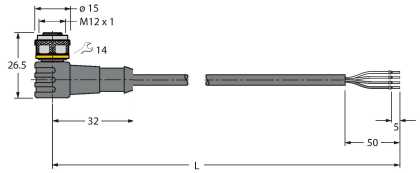
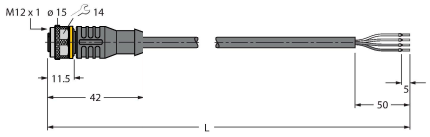
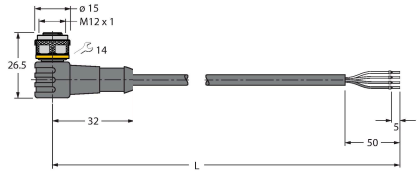
Technical data

Humidity	45…75 % rel.
Auxiliary power	24 VDC
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

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