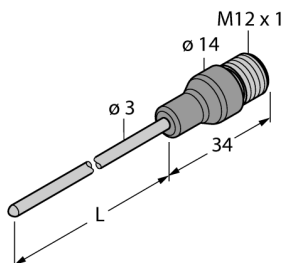


# Temperature Detection

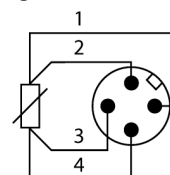
## Probe

### TP-203A-CF-H1141-L050



- 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

#### Wiring Diagram



#### General description

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.

<b>Type designation</b>	TP-203A-CF-H1141-L050
Ident-No.	9910645
<b>Ident. no.</b>	9910645
<b>Temperature range</b>	
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)	50 mm
<b>Protection type and class</b>	IP67
<b>Ambient conditions</b>	
Ambient temperature	-40...+85 °C
Storage temperature	-40...+85 °C
<b>Housing</b>	
Housing material	Stainless steel, V4A (1.4404)
Sensor material	Stainless steel, 1.4404 (316L)
Process connection	For compression fittings, thermowell or direct mounting
Electrical connection	Connector, M12 × 1
Process Pressure	100 bar
<b>Reference conditions acc. to IEC 61298-1</b>	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.
Auxiliary power	24 VDC
<b>MTTF</b>	2283 years acc. to SN 29500 (Ed. 99) 20 °C

# Temperature Detection Probe TP-203A-CF-H1141-L050

## Accessories

Type code	Ident-No.	Description	Dimension drawing
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	Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection G1/4" male thread	
CF-M-3-N1/4-A4	9910408	Compression fitting for direct mounting of temperature sensors; sensor diameter 3 mm; process connection 1/4" NPT male thread	