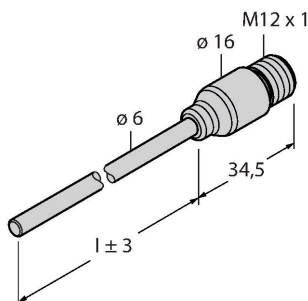


# TPS-206A-CF-H1141-L100

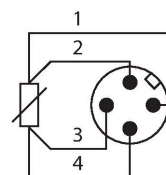
## Temperature Detection – Probe, Stainless Steel



### Features

- Pt-100 probe acc. to DIN EN 60751
- Vibration and shock-resistant
- Class A for temperatures < 350 °C
- Class B for temperatures > 350 °C
- Can be connected to TS, TTM, IM34, BL20, BL67 and excom
- Max. temperature connector: 120°C
- Connection mode: 4-wire connection
- Process connection via compression fitting or thermowell.

### Wiring diagram



### Technical data

Type	TPS-206A-CF-H1141-L100
ID	9910638
<b>Temperature range</b>	
Measuring range	-50...500 °C
	-58...932 °F
Accuracy	±0.15 K + 0.002 •  t  (-30...300 °C)
Measuring element	Pt100, DIN EN 60751, class A; connection mode: 4-wire connection
Self-heating	0.4 K/mW at 0 °C
Response time	t 0.5 = 6 s / t 0.9 = 15 s in water at 0.2 m/s
Immersion depth (L)	100 mm
Process Pressure	100 bar
Short-circuit/reverse polarity protection	yes
<b>Mechanical data</b>	
Housing material	Stainless steel, 1.4404 (AISI 316L)
Process connection	For compression fittings, thermowell or direct mounting
Electrical connection	Connector, M12 × 1
Protection class	IP67
<b>Environmental conditions</b>	
Ambient temperature	-40...+120 °C
Storage temperature	-40...+85 °C

### Functional principle

Resistance thermometers are used everywhere where temperatures must be captured and monitored for the control and optimization of processes.

Typical applications are process plants, manufacturing facilities and units, as well as air-conditioning systems. The core element of the temperature transmitters is a Pt 100 measuring resistor in 4-wire technology.

## Technical data

<b>Tests/approvals</b>	
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
<b>Technical data</b>	
Type	TPS-206A-CF-H1141-L100
ID	9910638
<b>Temperature range</b>	
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
Immersion depth L	100 mm
Outer diameter	6 mm
Short-circuit/reverse polarity protection	yes
Protection class	IP67
<b>Environmental conditions</b>	
Ambient temperature	-40...+120 °C
Storage temperature	-40...+85 °C
<b>Mechanical data</b>	
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
Process Pressure	100 bar
Electrical connection	Connector, M12 × 1
Core cross-section	4 mm <sup>2</sup>
<b>Reference conditions acc. to IEC 61298-1</b>	
Temperature	15...+25 °C
Atmospheric pressure	860...1060 hPa abs.
Humidity	45...75 % rel.

Technical data

Auxiliary power	24 VDC
Tests/approvals	