



## Temperature sensors

TCT-1PAP40253LZ



**Model Name** > [TCT-1PAP40253LZ](#)  
**Part No.** > [6043272](#)



### At a glance

- Pt100 element, accuracy class A according to IEC 60751
- Measuring ranges -50 °C ... 150 °C and -50 °C ... 250 °C
- Wetted parts made from corrosion resistant stainless steel 316L
- Output signal Pt100 (4-wire)
- Various mechanical adaptations and insertion lengths, also available with thermowell
- Circular connector M12x1 (IP 67) or L-connector according to DIN EN 175301-803 A (IP 65)

### Your benefits

- Reliable operation through rugged design and high-quality materials
- Good long-term stability, accuracy and linearity
- Quick and safe installation
- Convenient system integration through compact dimensions and industry-standard output signals
- Optimal solutions for individual requirements



### Features

|                  |                   |
|------------------|-------------------|
| Measuring range: | -50 °C ... 150 °C |
| Sensor element:  | Pt100             |
| Output signal:   | Pt100, 4-wire     |

### Performance

|                             |                                |
|-----------------------------|--------------------------------|
| Accuracy of sensor element: | Class A according to IEC 60751 |
|-----------------------------|--------------------------------|

### Mechanics/electronics

|                                                        |                                                                 |
|--------------------------------------------------------|-----------------------------------------------------------------|
| Process connection:                                    | Compression fitting 1/4" NPT, PTFE ferrule                      |
| Insertion length/diameter of probe:                    | 25 mm/3 mm                                                      |
| Housing material:                                      | Stainless steel 1.4571                                          |
| Wetted parts:                                          | Stainless steel 1.4571                                          |
| Electrical connection/enclosure rating <sup>1)</sup> : | L-connector (DIN EN 175301-803 A), 4 pin, IP 65                 |
| Measuring current:                                     | 0.3 mA ... 1 mA                                                 |
| Electrical safety:                                     | Protection class: III, dielectric strength: 500 V               |
| Weight:                                                | Ca. 145 g (depending on configuration)                          |
| Supply voltage:                                        | 10 V DC ... 36 V DC for variant with transmitter 4 mA ... 20 mA |
| Protection class III:                                  | ✓                                                               |
| CE-conformity:                                         | 2004/108/EC, EN 61326-2-3                                       |

Pressure resistance:

Max. 40 bar with supplied compression fitting with PTFE ferrule

<sup>1)</sup> Enclosure rating IP per IEC 60529. The enclosure rating classes specified only apply while the pressure transmitter is connected with female connectors that provide the corresponding enclosure rating.

#### Ambient data

Ambient temperature: -40 °C ... 85 °C

Storage and transport temperature: -40 °C ... 85 °C

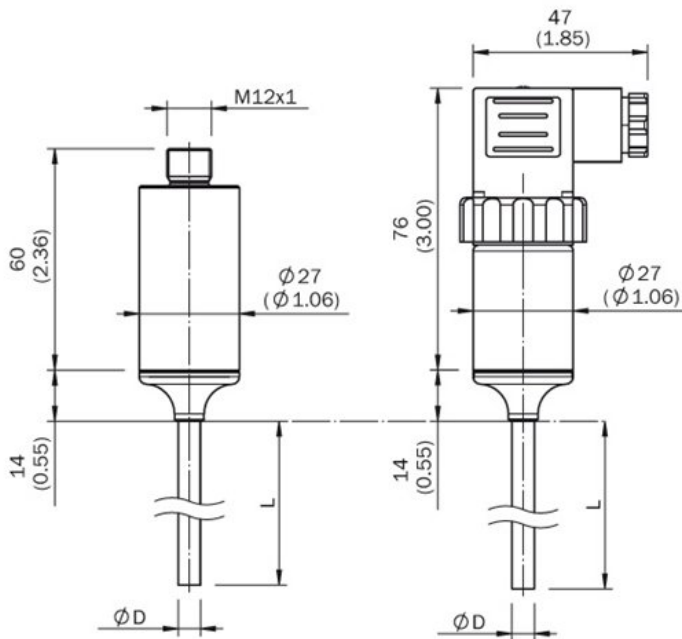
Shock resistance according to IEC 60751: 500 g

Vibration resistance according to IEC 60751: 3 g

#### Dimensional drawing housing

With circular connector M12x1

With L-connector (DIN EN 175301-803 A)

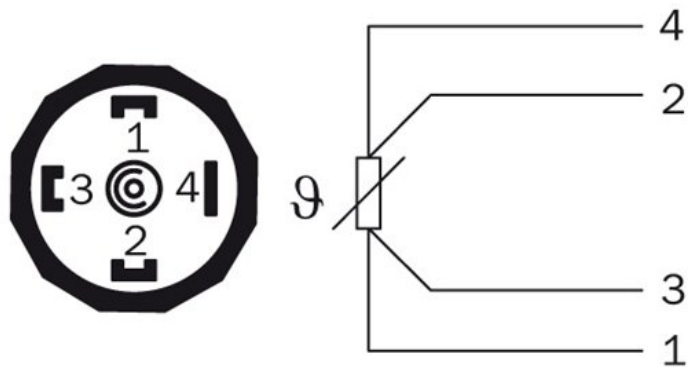


All dimensions in mm (inch)

Dimensional drawing process connection



Connection type



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