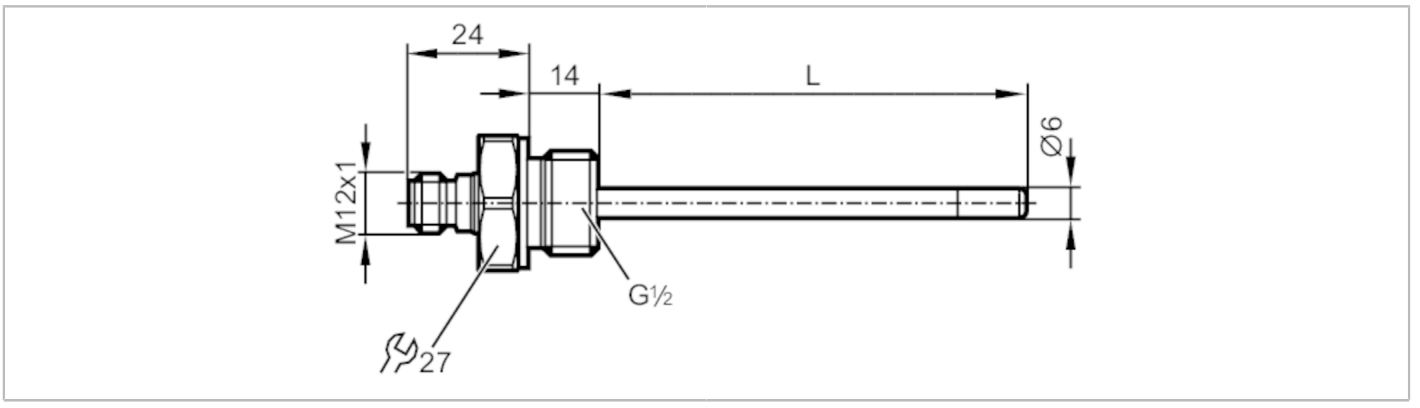
# TM5411

## Temperature sensor with process connection

TM-050KCBR12- /US/




| | | | |
|---|---|---|---|
| **Product characteristics** | | | |
| Measuring range | | -40...150 °C | -40...302 °F |
| Process connection | | threaded connection G 1/2 | |
| Installation length EL | [mm] | 50 | |
| **Application** | | | |
| Special feature | | Gold-plated contacts | |
| Measuring element | | 1 x Pt 1000; (to DIN EN 60751, class A) | |
| Media | | liquids and gases | |
| Pressure rating | [bar] | 160 | |
| Minimum installation depth | [mm] | 15 | |
| **Electrical data** | | | |
| Protection class | | III | |
| **Measuring/setting range** | | | |
| Probe length L | [mm] | 36 | |
| Measuring range | | -40...150 °C | -40...302 °F |
| **Accuracy / deviations** | | | |
| Accuracy | [K] | ± (0,15 K + 0,002 x\|t\|) | |
| **Response times** | | | |
| Dynamic response T05 / T09 | [s] | 1 / 3; (to DIN EN 60751) | |
| **Operating conditions** | | | |
| Ambient temperature | [°C] | -25...80 | |
| Storage temperature | [°C] | -40...100 | |
| Protection | | IP 68; IP 69K | |
| **Tests / approvals** | | | |
| Shock resistance | | DIN EN 60068-2-2-27 | 50 g (11 ms) |
| Vibration resistance | | DIN EN 60068-2-6 | 10 g (10...2000 Hz) |
| MTTF | [years] | 22831 | |
| UL approval | | UL Approval no. | K004 |
| **Mechanical data** | | | |
| Weight | [g] | 127.5 | |
| Materials | | stainless steel (1.4404 / 316L) | |

# TM5411

## Temperature sensor with process connection

TM-050KCBR12- /US/

| | | |
|---|---|---|
| Materials (wetted parts) | | stainless steel (1.4404 / 316L); FKM |
| Tightening torque | [Nm] | 45 |
| Process connection | | threaded connection G 1/2 |
| Probe diameter | [mm] | 6 |
| Installation length EL | [mm] | 50 |

## Remarks

| | |
|---|---|
| Remarks | operating voltage "supply class 2" according to cULus |
| | The values for accuracy apply to flowing water. |
| Pack quantity | 1 pcs. |

## Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated




### Connection

