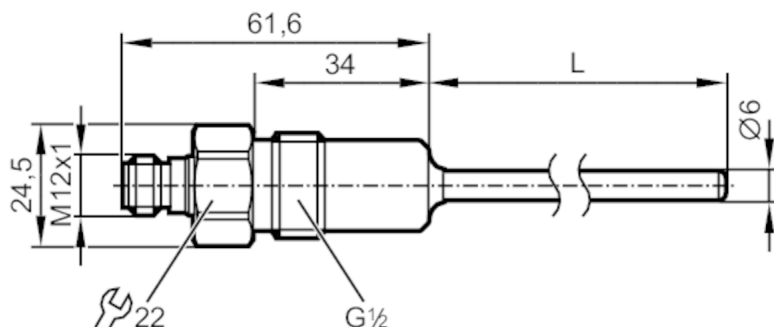




Temperature sensor with process connection

TM-100KFER12-

/US/



L = probe length corresponds to installation length EL



Product characteristics

| | | |
|-----------------------------|--|--------------|
| Measuring range | -40...150 °C | -40...302 °F |
| Process connection | threaded connection G 1/2 sealing cone | |
| Installation length EL [mm] | 100 | |

Application

| | | |
|--|--|-----|
| Special feature | Gold-plated contacts | |
| Measuring element | 1 x Pt 100; (to DIN EN 60751, class A) | |
| Media | liquids and gases | |
| Pressure rating | [bar] | 160 |
| Note on pressure rating | sensor | |
| When mounted in adapters the specifications of the adapter data sheet apply. | | |
| Minimum installation depth | [mm] | 15 |

Electrical data

| | | |
|------------------|-----|--|
| Protection class | III | |
|------------------|-----|--|

Measuring/setting range

| | | |
|---------------------|--------------|--------------|
| Probe length L [mm] | 100 | |
| 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 60068-2-27 | 50 g (11 ms) |
| Vibration resistance | DIN EN 60068-2-6 | 10 g (10...2000 Hz) |
| MTTF [ANN] | 22831.05 | |

Mechanical data

| | | |
|------------|-----|--|
| Weight [g] | 142 | |
|------------|-----|--|

TM4531



Temperature sensor with process connection

TM-100KFER12- /US/

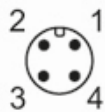
| | |
|---|---|
| Materials | stainless steel (1.4404 / 316L) |
| Materials (wetted parts) | stainless steel (1.4404 / 316L) electropolished |
| Tightening torque [Nm] | 30...50 |
| Process connection | threaded connection G 1/2 sealing cone |
| Surface characteristics Ra/Rz of the wetted parts | Ra: < 0.8 |
| Probe diameter [mm] | 6 |
| Installation length EL [mm] | 100 |

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

