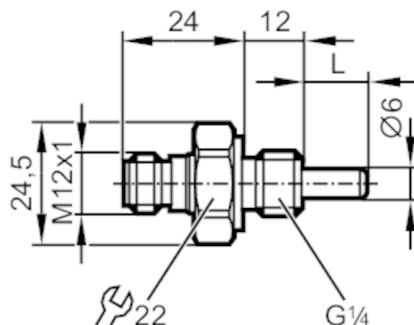




## Temperature sensor with process connection

TM-025KCBR14-

/US/



### Product characteristics

|                             |                                           |              |
|-----------------------------|-------------------------------------------|--------------|
| Measuring range             | -40...150 °C                              | -40...302 °F |
| Process connection          | threaded connection G 1/4 external thread |              |
| Installation length EL [mm] | 25                                        |              |

### 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] | 400                                     |  |

### Electrical data

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

### Measuring/setting range

|                     |              |              |
|---------------------|--------------|--------------|
| Probe length L [mm] | 12           |              |
| Measuring range     | -40...150 °C | -40...302 °F |

### Accuracy / deviations

|              |                             |  |
|--------------|-----------------------------|--|
| Accuracy [K] | $\pm (0,15 K + 0,002 x t )$ |  |
|--------------|-----------------------------|--|

### 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  | 20 g (10...2000 Hz) |
| MTTF [years]         | 22831             |                     |
| UL approval          | UL Approval no.   | K004                |

### Mechanical data

|                 |                 |  |
|-----------------|-----------------|--|
| Weight [g]      | 45.7            |  |
| Housing         | cylindrical     |  |
| Dimensions [mm] | Ø 24.5 / L = 48 |  |

# TM5101



## Temperature sensor with process connection

TM-025KCBR14- /US/

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Materials                   | stainless steel (316L/1.4404)             |
| Materials (wetted parts)    | stainless steel (316L/1.4404); FKM        |
| Tightening torque [Nm]      | 35                                        |
| Process connection          | threaded connection G 1/4 external thread |
| Probe diameter [mm]         | 6                                         |
| Installation length EL [mm] | 25                                        |

### Remarks

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

### Electrical connection

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



### Connection

