

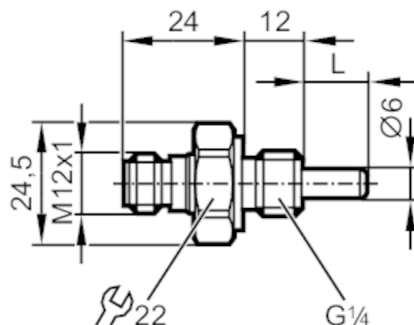
# TM5101



## 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 |              |
| Installation length EL [mm] | 25                        |              |

### Application

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

### Reaction times

|                                |                                    |
|--------------------------------|------------------------------------|
| Dynamic response T05 / T09 [s] | 1 / 3; (according 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 number | K004                |

### Mechanical data

|                          |                                      |
|--------------------------|--------------------------------------|
| Weight [g]               | 45.7                                 |
| Material                 | stainless steel (1.4404 / 316L)      |
| Materials (wetted parts) | stainless steel (1.4404 / 316L); FKM |

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|                        |      |                           |
|------------------------|------|---------------------------|
| Tightening torque      | [Nm] | 35                        |
| Process connection     |      | threaded connection G 1/4 |
| Probe diameter         | [mm] | 6                         |
| Installation length EL | [mm] | 25                        |

### Remarks

|               |                                                 |
|---------------|-------------------------------------------------|
| Remarks       | cULus - Class 2 source required                 |
|               | The values for accuracy apply to flowing water. |
| Pack quantity | 1 pcs.                                          |

### Electrical connection

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



### Connection

