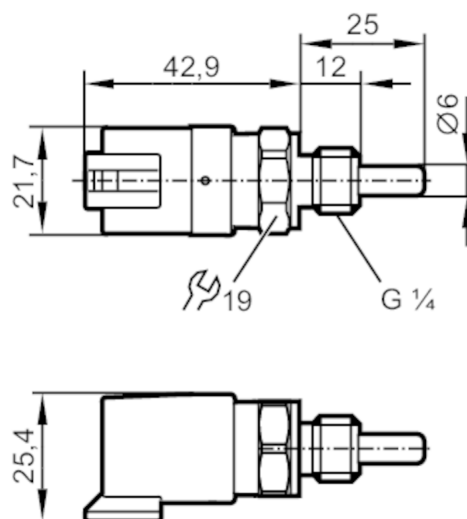


# TM6101



## Temperature sensor with process connection

TM-025KCBR14- /DE/



### 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

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

### 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 | K017                |

# TM6101



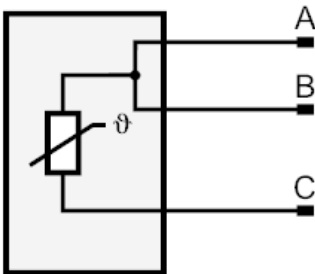
## Temperature sensor with process connection

TM-025KCBR14- /DE/

| Mechanical data          |      |                                              |
|--------------------------|------|----------------------------------------------|
| Weight                   | [g]  | 82                                           |
| Housing                  |      | tubular                                      |
| Dimensions               | [mm] | Ø 25.4 / L = 67.9                            |
| Material                 |      | stainless steel (1.4404 / 316L); PPS; FKM    |
| Materials (wetted parts) |      | stainless steel (1.4404 / 316L); Gasket: FKM |
| Process connection       |      | threaded connection G 1/4 external thread    |
| Probe diameter           | [mm] | 6                                            |
| Installation length EL   | [mm] | 25                                           |

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

| Electrical connection |  |
|-----------------------|--|
| Connection            |  |



Connector: 1 x DEUTSCH connector (DT04-3P)