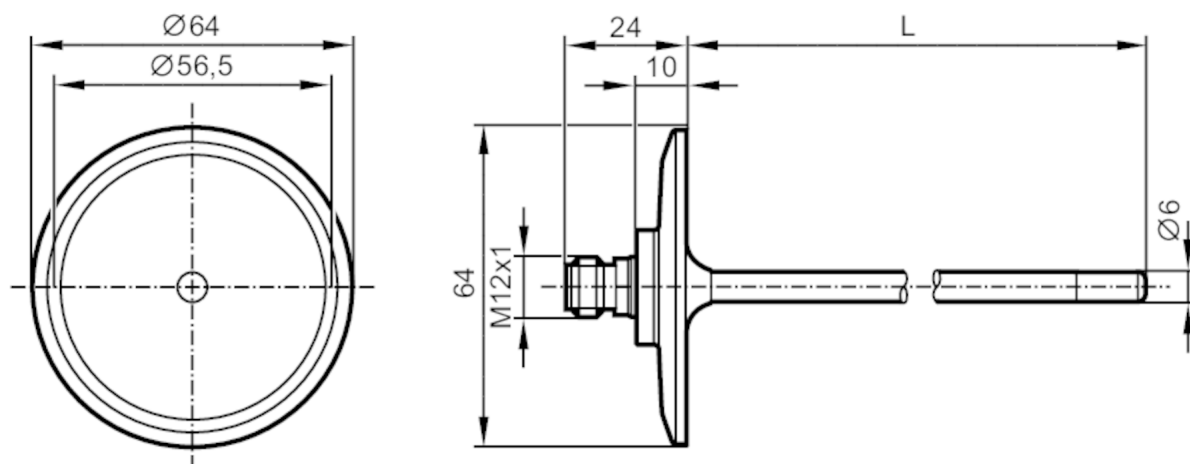




## Temperature sensor with process connection

TM-100KFEC02-

/US/



L = probe length corresponds to installation length EL



EC 1935/2004 EHEDG Certified FCM FDA

### Product characteristics

|                             |                                      |              |
|-----------------------------|--------------------------------------|--------------|
| Measuring range             | -40...150 °C                         | -40...302 °F |
| Process connection          | Clamp DN50 (2") DIN 32676 (ISO 2852) |              |
| Installation length EL [mm] | 100                                  |              |

### Application

|                                 |                                        |  |
|---------------------------------|----------------------------------------|--|
| Special feature                 | Gold-plated contacts                   |  |
| Measuring element               | 1 x Pt 100; (to DIN EN 60751, class A) |  |
| Application                     | hygienic systems                       |  |
| Media                           | liquids and gases                      |  |
| Pressure rating [bar]           | 25                                     |  |
| 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] | $\pm (0,15 K + 0,002 x t )$ |
|--------------|-----------------------------|

### 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 60068-2-2-27 | 50 g (11 ms)        |
| Vibration resistance | DIN EN 60068-2-6    | 10 g (10...2000 Hz) |

TM4931



Temperature sensor with process connection

TM-100KFEC02- /US/

|      |         |       |
|------|---------|-------|
| MTTF | [years] | 22831 |
|------|---------|-------|

| Mechanical data                                   |      |                                               |
|---------------------------------------------------|------|-----------------------------------------------|
| Weight                                            | [g]  | 234.5                                         |
| Materials                                         |      | stainless steel (316L/1.4404)                 |
| Materials (wetted parts)                          |      | stainless steel (316L/1.4404) electropolished |
| Process connection                                |      | Clamp DN50 (2") DIN 32676 (ISO 2852)          |
| 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<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

