

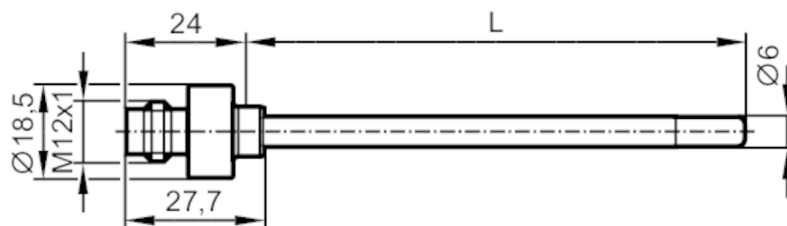
# TT1291



## Temperature probe sensor

TT-150KFED06-

/US/



L = probe length corresponds to installation length EL



EC 1935/2004 FCM FDA

### Product characteristics

|                             |              |              |
|-----------------------------|--------------|--------------|
| Measuring range             | -40...150 °C | -40...302 °F |
| Process connection          | Ø 6 mm       |              |
| Installation length EL [mm] | 150          |              |

### 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]           | 160                                    |  |
| Minimum installation depth [mm] | 15                                     |  |

### Electrical data

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

### Measuring/setting range

|                     |              |              |
|---------------------|--------------|--------------|
| Probe length L [mm] | 150          |              |
| 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             |                     |

### Mechanical data

|                 |                                 |  |
|-----------------|---------------------------------|--|
| Weight [g]      | 38.2                            |  |
| Dimensions [mm] | Ø 6                             |  |
| Materials       | stainless steel (1.4404 / 316L) |  |

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Temperature probe sensor

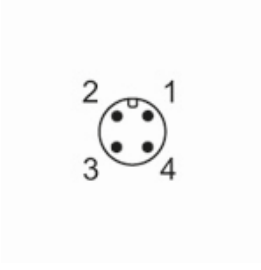
TT-150KFED06- /US/

|                                                   |                                                 |
|---------------------------------------------------|-------------------------------------------------|
| Materials (wetted parts)                          | stainless steel (1.4404 / 316L) electropolished |
| Process connection                                | Ø 6 mm                                          |
| Surface characteristics Ra/Rz of the wetted parts | Ra: < 0.8                                       |
| Probe diameter [mm]                               | 6                                               |
| Installation length EL [mm]                       | 150                                             |

| 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

