

# TT4281



## Temperature probe sensor

TT-200KFBD06- /US/



L = probe length corresponds to installation length EL



### Product characteristics

|                             |                      |              |
|-----------------------------|----------------------|--------------|
| Measuring range             | -40...150 °C         | -40...302 °F |
| Process connection          | clamp adapter Ø 6 mm |              |
| Installation length EL [mm] | 200                  |              |

### Application

|                                 |                                        |  |
|---------------------------------|----------------------------------------|--|
| Special feature                 | Gold-plated contacts                   |  |
| Measuring element               | 1 x Pt 100; (to DIN EN 60751, class A) |  |
| Media                           | liquids and gases                      |  |
| Pressure rating [bar]           | 160                                    |  |
| Pressure rating [MPa]           | 16                                     |  |
| Minimum installation depth [mm] | 15                                     |  |

### Electrical data

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

### Measuring/setting range

|                 |      |              |              |
|-----------------|------|--------------|--------------|
| Probe length L  | [mm] | 200          |              |
| 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 [years]         | 22831             |                     |
| UL approval          | UL Approval no.   | K004                |

### Mechanical data

|            |             |
|------------|-------------|
| Weight [g] | 46.1        |
| Housing    | cylindrical |

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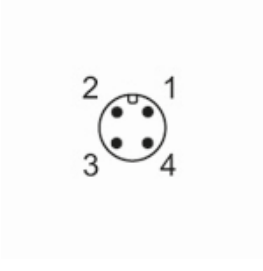
TT-200KFBD06- /US/

|                          |      |                               |
|--------------------------|------|-------------------------------|
| Dimensions               | [mm] | Ø 6 / L = 224                 |
| Materials                |      | stainless steel (316L/1.4404) |
| Materials (wetted parts) |      | stainless steel (316L/1.4404) |
| Process connection       |      | clamp adapter Ø 6 mm          |
| Probe diameter           | [mm] | 6                             |
| Installation length EL   | [mm] | 200                           |

| 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

