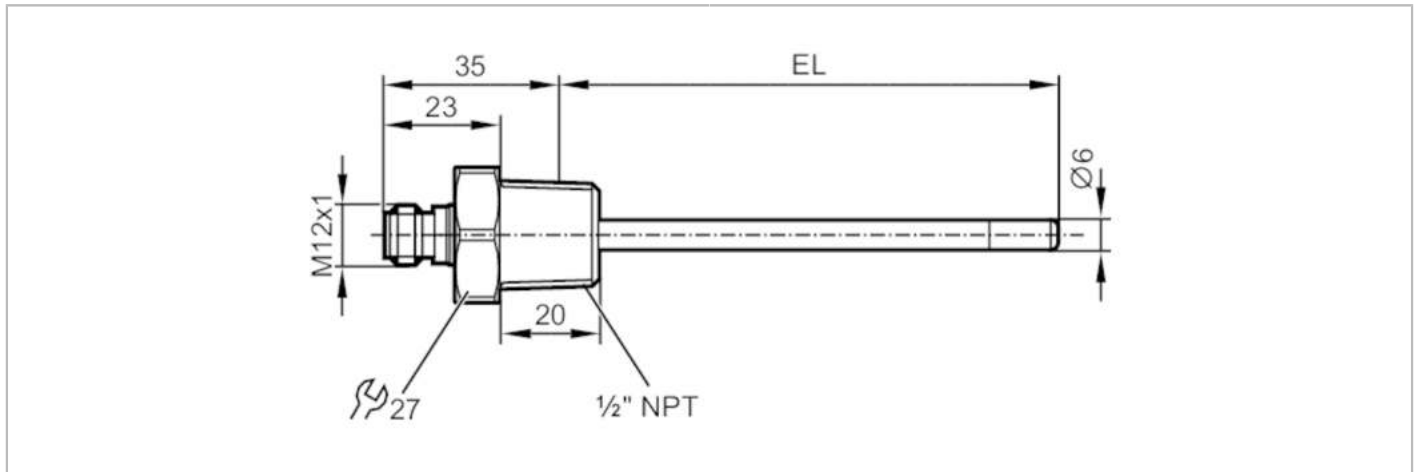


# TM4311



## Temperature sensor with process connection

TM-050KFBN12- /US/



| Product characteristics         |  |                     |
|---------------------------------|--|---------------------|
| Measuring range                 | -40...150 °C                           | -40...302 °F        |
| Process connection              | threaded connection 1/2" NPT           |                     |
| Installation length EL [mm]     | 50                                     |                     |
| 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                                    |                     |
| Minimum installation depth [mm] | 15                                     |                     |
| Electrical data                 |  |                     |
| Protection class                | III                                    |                     |
| Measuring/setting range         |  |                     |
| Probe length L [mm]             | 42                                     |                     |
| 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 60068-2-2-27                    | 50 g (11 ms)        |
| Vibration resistance            | DIN EN 60068-2-6                       | 10 g (10...2000 Hz) |
| MTTF [years]                    | 22831                                  |                     |
| Mechanical data                 |  |                     |
| Weight [g]                      | 138.5                                  |                     |

# TM4311



## Temperature sensor with process connection

TM-050KFBN12- /US/

|                             |                                 |
|-----------------------------|---------------------------------|
| Materials                   | stainless steel (1.4404 / 316L) |
| Materials (wetted parts)    | stainless steel (1.4404 / 316L) |
| Process connection          | threaded connection 1/2" NPT    |
| Probe diameter [mm]         | 6                               |
| Installation length EL [mm] | 50                              |

| 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

