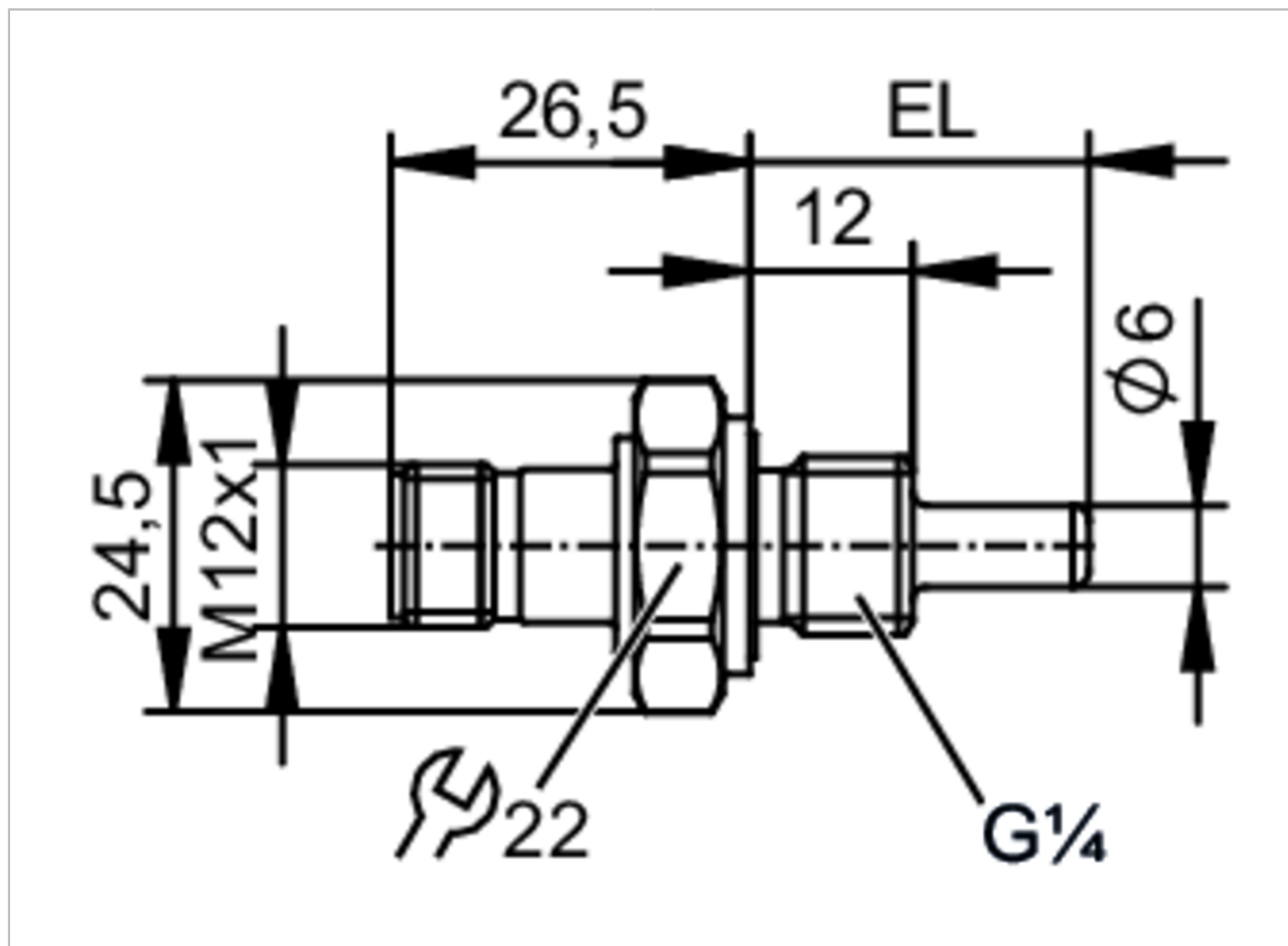


# TM5101



## Temperature sensor with process connection

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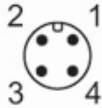
| Product characteristics     |   |              |
|-----------------------------|---|--------------|
| Measuring range             | -40...150 °C                              | -40...302 °F |
| Process connection          | threaded connection G 1/4 external thread |              |
| Installation length EL [mm] | 25  |              |
| Application                 |   |              |
| System                      | gold-plated contacts                      |              |
| 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]                | ± (0,15 K + 0,002 x t )                   |              |

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| 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 | K004   |
| Mechanical data   |                    |  |
| Weight  | [g]                | 45.7   |
| Housing   |                    | tubular  |
| Dimensions  | [mm]               | Ø 24.5 / L = 51.5  |
| Material  |                    | stainless steel (1.4404 / 316L)  |
| Materials (wetted parts)  |                    | stainless steel (1.4404 / 316L); FKM   |
| Tightening torque   | [Nm]               | 35   |
| Process connection  |                    | threaded connection G 1/4 external thread  |
| Probe diameter  | [mm]               | 6  |
| Installation length EL  | [mm]               | 25   |
| Remarks   |                    |  |
| Remarks   |                    | cULus - Class 2 source required<br>The values for accuracy apply to flowing water. |
| Pack quantity   |                    | 1 pcs.   |
| Electrical connection   |                    |  |
| Connector: 1 x M12; coding: A; Contacts: gold-plated                                |                    |  |
|  |                    |  |

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## Temperature sensor with process connection

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### Connection

