

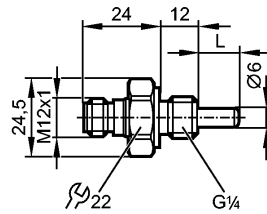


TM5101

TM-025KCBR14- /US/



Temperature sensors



Product characteristics

Temperature sensor for connection to a control monitor with a max. operating voltage of 32 V

Quick disconnect

Process connection: G 1/4

Installation length EL: 25 mm

gold-plated contacts

Connection to control monitor TP / TR

Measuring range: -40...150 °C / -40...302 °F

Measuring element: 1 x Pt 1000, to DIN EN 60751, class A

Application

Application liquids and gases

Pressure rating [bar] 400

Minimum installation depth [mm] 15

Electrical data

Connection to control monitor TP / TR

Protection class III

Measuring / setting range

Measuring range -40...150 °C -40...302 °F

Accuracy / deviations

Accuracy $\pm (0.15 \text{ K} + 0.002 \times |t|)$

Reaction times

Dynamic response T05 / T09 [s] 1 / 3 *)

Environment

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)

UL approval number K004

Mechanical data

Process connection G 1/4

Materials (wetted parts) stainless steel 316L / 1.4404; FPM (Viton)

Probe diameter [mm] 6

Probe length L [mm] 12

Installation length EL [mm] 25

Housing materials stainless steel 316L / 1.4404



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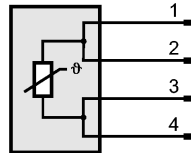
Temperature sensors

Weight [kg] 0.046

Electrical connection

Connection M12 connector; gold-plated contacts

Wiring



Remarks

Remarks cULus - Class 2 source required
*) according to DIN EN 60751
The values for accuracy apply to flowing water.

Pack quantity [piece] 1