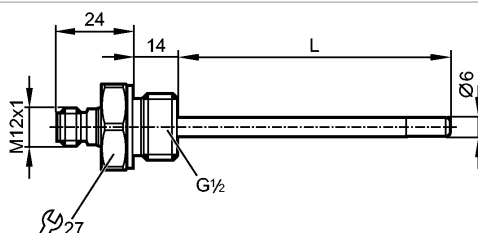


TM4431

TM-100KFBR12- /US/

Temperature sensors



Made in Germany

Product characteristics

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

Connector

Process connection: G ½

Installation length: 100 mm

Gold-plated contacts

Connection to control monitor TP / TR

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

Measuring element: 1 x Pt 100, to DIN EN 60751, class A

Application

Application liquids and gases

Minimum installation depth [mm] 15

Electrical data

Connection to control monitor TP / TR

Protection class III

Measuring / setting range

Measuring range [°C/°F] -40...150 / -40...302

Accuracy / deviations

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

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

Environment

Pressure rating [bar] 160

Ambient temperature [°C] -25...80

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

Process connection G ½

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

Probe diameter [mm] 6

Probe length L [mm] 86

Installation length [mm] 100

Housing materials stainless steel 316L / 1.4404

Weight [kg] 0.13

TM4431

TM-100KFBR12- /US/

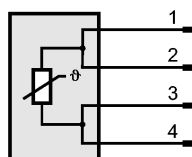
Temperature sensors

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