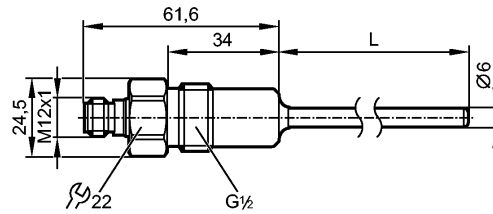


TM4541

TM-150KFER12- /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 $\frac{1}{2}$ with sealing cone

Installation length: 150 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 $\pm (0.15 K + 0.002 \times |t|)$

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: 5 g (10...2000 Hz)

MTTF [Years] 22831.05

Mechanical data

Process connection G $\frac{1}{2}$ with sealing cone

Materials (wetted parts) stainless steel 316L / 1.4404; surface characteristics: Ra < 0.8 / electropolished

Probe diameter [mm] 6

Probe length L [mm] 150

Installation length [mm] 150

Housing materials stainless steel 316L / 1.4404

Tightening torque [Nm] 30...50

TM4541

TM-150KFER12- /US/

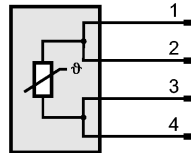
Temperature sensors

Weight	[kg]	0.147
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Electrical connection

Connection	M12 connector; Gold-plated contacts
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Wiring



Remarks

Remarks	<p>cULus - Class 2 source required *) according to DIN EN 60751 **) only applies to the sensor; for installation in adapters the indications in the adapter data sheet shall apply The values for accuracy apply to flowing water.</p>
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Pack quantity	[piece]	1
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