



Temperature sensor with process connection

TM-050KFER12-

/US/



L = probe length corresponds to installation length EL



EC 1935/2004 EHEDG Certified



Application

Measuring element	1 x Pt 100; (to DIN EN 60751, class A)
Media	liquids and gases
Pressure rating [bar]	160
Note on pressure rating	sensor
Minimum installation depth [mm]	When mounted in adapters the specifications of the adapter data sheet apply. 15

Electrical data

Protection class	III
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Measuring/setting range

Probe length L [mm]	50
Measuring range	-40...150 °C -40...302 °F

Accuracy / deviations

Accuracy [K]	$\pm (0,15 K + 0,002 \times t)$
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Response times

Dynamic response T05 / T09 [s]	1 / 3; (to DIN EN 60751)
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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]	22831.05	



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Mechanical data

Weight	[g]	135.6
Materials		stainless steel (1.4404 / 316L)
Materials (wetted parts)		stainless steel (1.4404 / 316L) electropolished
Tightening torque	[Nm]	30...50
Process connection		threaded connection G 1/2 sealing cone
Surface characteristics Ra/Rz of the wetted parts		Ra: < 0.8
Probe diameter	[mm]	6
Installation length EL	[mm]	50

Remarks

Remarks	operating voltage "supply class 2" according to cULus
	The values for accuracy apply to flowing water.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection

