

TM5411



Temperature sensor with process connection

TM-050KCBR12-

/US/



Product characteristics

Measuring range	-40...150 °C	-40...302 °F
Process connection	threaded connection G 1/2	
Installation length EL [mm]	50	

Application

System	gold-plated contacts	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Pressure rating [bar]	160	
Minimum installation depth [mm]	15	

Electrical data

Protection class	III
------------------	-----

Measuring/setting range

Probe length L	[mm]	36	
Measuring range		-40...150 °C	-40...302 °F

Accuracy / deviations

Accuracy [K]	± (0,15 K + 0,002 x t)
--------------	-------------------------

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	10 g (10...2000 Hz)
MTTF [years]	22831	
UL approval	UL approval number	K004

Mechanical data

Weight	[g]	127.5
Material		stainless steel (1.4404 / 316L)

TM5411



Temperature sensor with process connection

TM-050KCBR12- /US/

Materials (wetted parts)	stainless steel (1.4404 / 316L); FKM
Tightening torque [Nm]	45
Process connection	threaded connection G 1/2
Probe diameter [mm]	6
Installation length EL [mm]	50

Remarks	
Remarks	cULus - Class 2 source required The values for accuracy apply to flowing water.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

