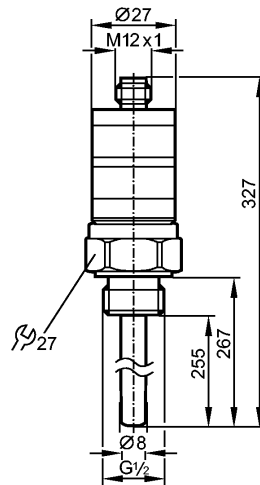


TK7480

TK7255CLFG12-QKPKG / US

Temperature sensors



Product characteristics

Electronic temperature sensor
Process connection: G 1/2 A
Installation length EL: 267 mm
2 switching outputs
OUT1: normally open / OUT2: normally closed
Hysteresis
5 K
fixed
Measuring range: -25...140 °C / -13...284 °F
Measuring element: 1 x Pt 1000, to DIN EN 60751, class B

Application

Application	liquids and gases
Pressure rating [bar]	300
Medium temperature [°C]	-25...125 (145 max. 1 h)
Minimum installation depth [mm]	15

Electrical data

Electrical design	DC PNP
Operating voltage [V]	9.6...32
Current consumption [mA]	< 30
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	1 x normally open / 1 x normally closed
Current rating [mA]	500
Voltage drop [V]	< 2
Short-circuit protection	pulsed
Overload protection	yes

Measuring / setting range

Measuring range	-25...140 °C	-13...284 °F
Setting range		

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Temperature sensors

Set point, SP	-20...140 °C	-4...284 °F
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Accuracy / deviations

Temperature drift (/ 10 K)		0.1
Setting accuracy	[K]	± 3
Repeatability	[K]	± 0.1

Reaction times

Power-on delay time	[s]	0.5
Dynamic response	T05 / T09 [s]	1 / 3 *)

Software / programming

Adjustment of the switch point	setting rings
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Environment

Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...100
Protection		IP 67

Tests / approvals

EMC	EN 61000-4-2 ESD:	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated:	10 V/m
	EN 61000-4-4 Burst:	2 kV
	EN 61000-4-6 HF conducted:	10 V
Shock resistance	DIN IEC 68-2-27:	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF	[Years]	485

Mechanical data

Process connection	G ½ A
Materials (wetted parts)	stainless steel 316L / 1.4404; FPM (Viton)
Probe length L	[mm] 255
Installation length EL	[mm] 267
Housing materials	stainless steel 316L / 1.4404; PC (Makrolon); PBT (Pocan); FPM (Viton)
Weight	[kg] 0.144

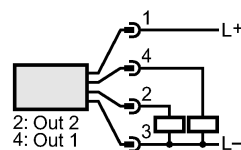
Displays / operating elements

Display	Switching status 2 x LED yellow
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Electrical connection

Connection	M12 connector; Gold-plated contacts
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Wiring



Remarks

Remarks	cULus - Class 2 source required *) according to DIN EN 60751 The values for accuracy apply to flowing water.
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Pack quantity	[piece]	1
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Temperature sensors