

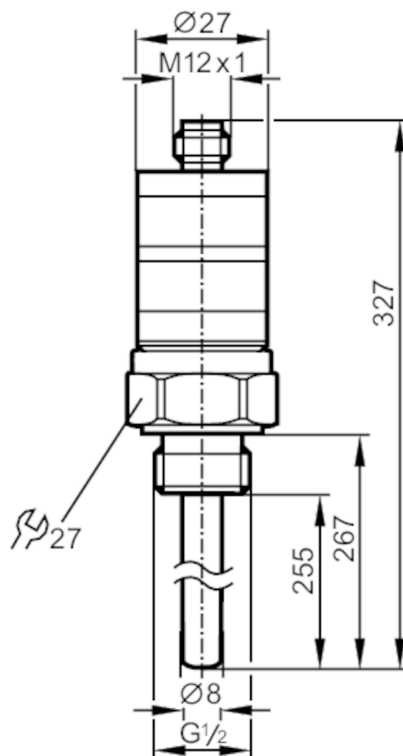
Temperature switch with intuitive switch point setting

TK7255CLFG12-QKPKG / US

phase-out article

Alternative articles: TK7460

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2	
Measuring range	-25...140 °C	-13...284 °F
Process connection	threaded connection G 1/2 external thread	
Installation length EL [mm]	267	

Application

Special feature	Gold-plated contacts	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class B)	
Media	liquids and gases	
Medium temperature [°C]	-25...125; (145 max. 1 h)	
Pressure rating [bar]	300	
Minimum installation depth [mm]	15	

Electrical data

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



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Power-on delay time	[s]	0.5
Inputs / outputs		
Number of inputs and outputs		Number of digital outputs: 2
Outputs		
Total number of outputs		2
Output signal		switching signal
Electrical design		PNP
Number of digital outputs		2
Output function		normally open / normally closed
Max. voltage drop switching output DC	[V]	2
Permanent current rating of switching output DC	[mA]	500
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes
Measuring/setting range		
Probe length L	[mm]	255
Measuring range		-25...140 °C -13...284 °F
Set point SP		-20...140 °C -4...284 °F
Accuracy / deviations		
Temperature drift per 10 K	[K]	0.1
Repeatability	[K]	± 0,1
Setting accuracy	[K]	± 3
Hysteresis	[K]	5; (fixed)
Response times		
Dynamic response T05 / T09	[s]	1 / 3; (to DIN EN 60751)
Software / programming		
Adjustment of the switch point		setting rings
Operating conditions		
Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...100
Protection		IP 67
Tests / approvals		
EMC	DIN EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	DIN 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	[ANN]	485
Mechanical data		
Weight	[g]	155.5



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Materials	stainless steel (1.4404 / 316L); PC; PBT; FKM
Materials (wetted parts)	stainless steel (1.4404 / 316L); FKM
Tightening torque [Nm]	45
Process connection	threaded connection G 1/2 external thread
Installation length EL [mm]	267

Displays / operating elements

Display	switching status	2 x LED, yellow
With scale		yes

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; coding: A; Contacts: gold-plated



Connection

