

TK7480

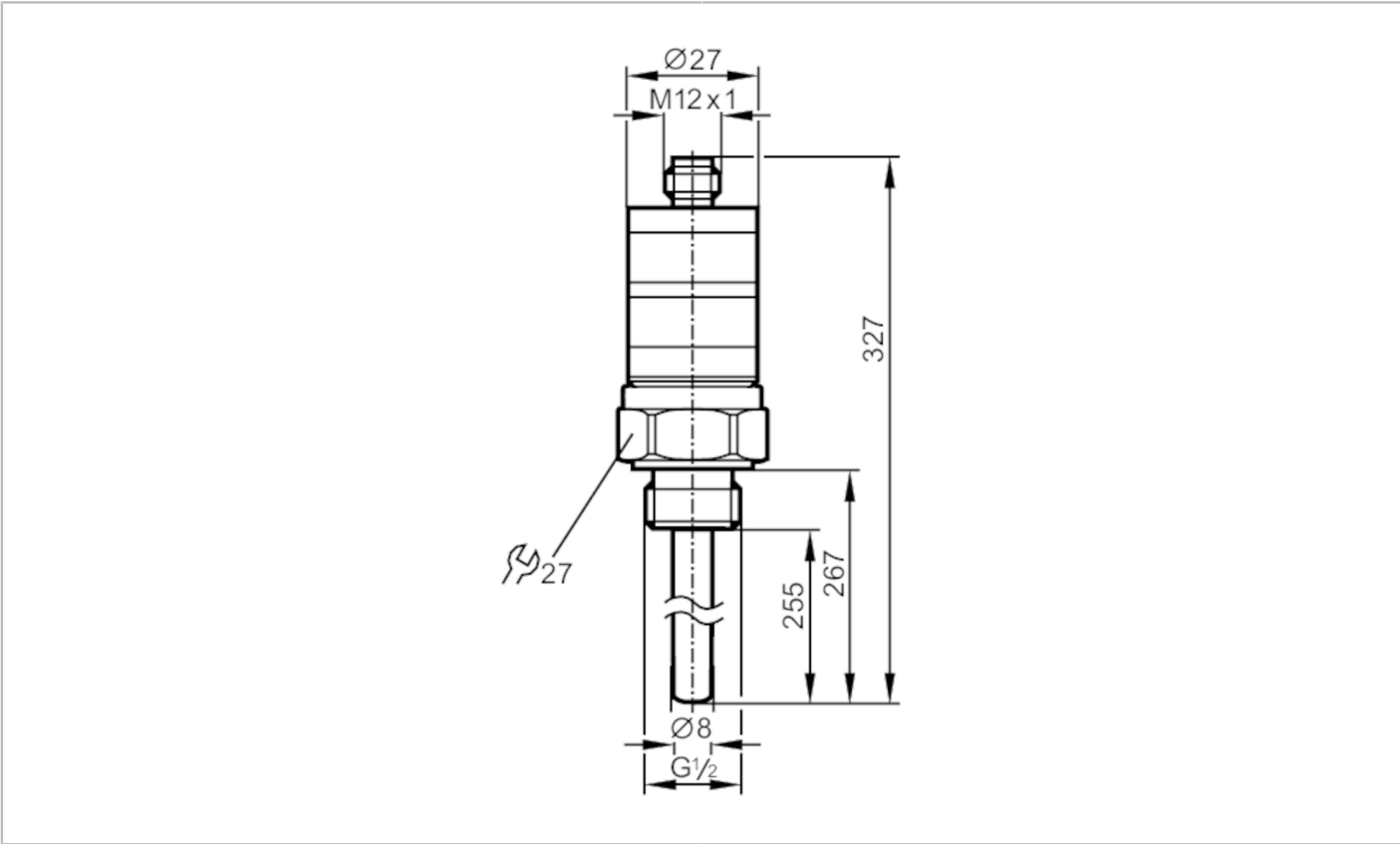


Temperature switch with intuitive switch point setting

TK7255CLFG12-QKPKG / US

Article to be discontinued

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		
System	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	



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Electrical data			
Operating voltage	[V]	9.6...32 DC	
Current consumption	[mA]	< 30	
Protection class		III	
Reverse polarity protection		yes	
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 / 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		yes (non-latching)	
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)	
Reaction times			
Dynamic response T05 / T09	[s]	1 / 3; (according 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	

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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	[years]	485

Mechanical data		
Weight	[g]	155.5
Material	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	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



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Connection

