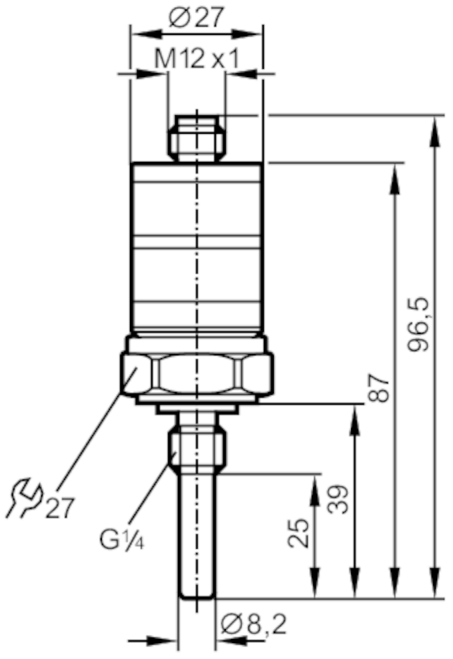
TK7130

Temperature switch with intuitive switch point setting

TK7025CLFR14-QSPKG / US

phase-out article

Alternative articles: TK7110
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 1/4 external thread	
Installation length EL	[mm]	39	
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; ("supply class 2" to cULus)	
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	

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Outputs			
Total number of outputs		2	
Output signal		switching signal	
Electrical design		PNP	
Number of digital outputs		2	
Output function		normally open	
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]	25	
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	[years]	485	
Mechanical data			
Weight	[g]	102	
Materials		stainless steel (1.4404 / 316L); PC; PBT; FKM	
Materials (wetted parts)		stainless steel (1.4404 / 316L); FKM	
Tightening torque	[Nm]	35	

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Displays / operating elements

Display	switching status	2 x LED, yellow
With scale		yes

Remarks

Remarks	The values for accuracy apply to flowing water.
Pack quantity	1 pcs.

Electrical connection

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



Connection

