

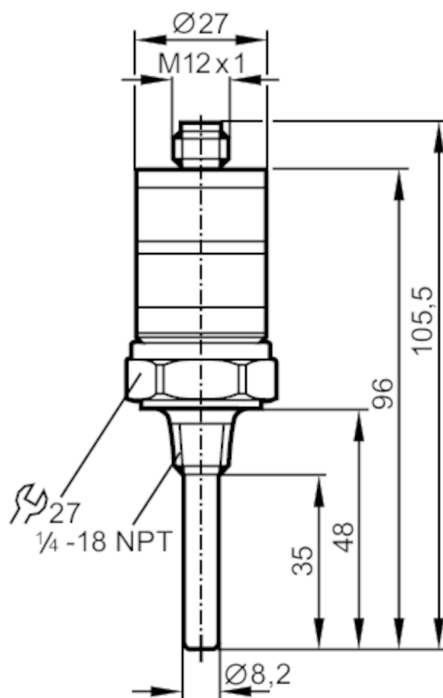
Temperature switch with intuitive switch point setting

TK7035CLFN14-QKPKG / US

phase-out article

Alternative articles: TK7310

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 1/4" NPT	
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	
Current consumption [mA]	< 30	
Protection class	III	
Reverse polarity protection	yes	
Power-on delay time [s]	0.5	



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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	
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]		35	
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]		102.5	
Materials		stainless steel (316L/1.4404); PC; PBT; FKM	

TK7330



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Materials (wetted parts)	stainless steel (316L/1.4404)
Process connection	threaded connection 1/4" NPT
Installation length EL [mm]	39

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

