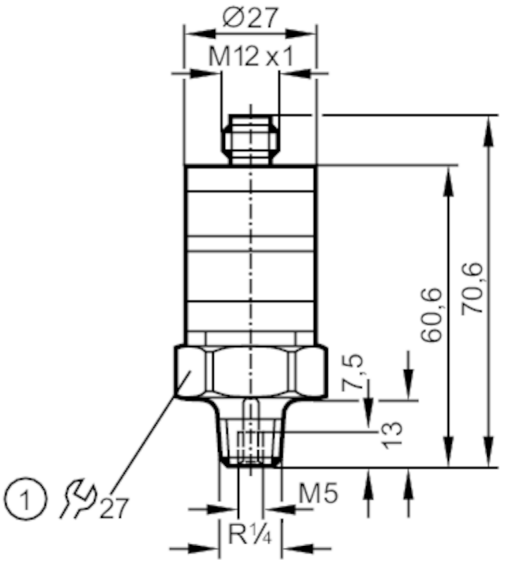
PK8734

Pressure switch with intuitive switch point setting

PK-010-RFP14-HCNKG/US/ /W



1 Tightening torque 25 Nm

Product characteristics			
Number of inputs and outputs		Number of digital outputs: 2	
Measuring range	0...10 bar	0...1000 kPa	0...1 MPa
Process connection		threaded connection R 1/4 external thread internal thread:M5	
Application			
Application		for industrial applications	
Media		liquids and gases	
Medium temperature	[°C]	-25...80	
Min. bursting pressure	300 bar	30 MPa	
Pressure rating	25 bar	2.5 Mpa	
Type of pressure		relative pressure	
Electrical data			
Operating voltage	[V]	9.6...32 DC	
Current consumption	[mA]	< 25	
Min. insulation resistance	[MΩ]	100; (500 V DC)	
Protection class		III	
Reverse polarity protection		yes	
Inputs / outputs			
Number of inputs and outputs		Number of digital outputs: 2	
Outputs			
Total number of outputs		2	
Output signal		switching signal	
Electrical design		NPN	
Number of digital outputs		2	
Output function		complementary	

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Max. voltage drop switching output DC	[V]	2		
Permanent current rating of switching output DC	[mA]	500		
Switching frequency DC	[Hz]	100		
Short-circuit protection		yes		
Type of short-circuit protection		pulsed		
Overload protection		yes		
Measuring/setting range				
Measuring range		0...10 bar	0...1000 kPa	0...1 MPa
Set point SP		0.5...10 bar	0.05...1 MPa	
Reset point rP		0.3...9.8 bar	0.03...0.98 MPa	
Accuracy / deviations				
Switch point accuracy [% of the final value]		< ± 2,5; (Setting accuracy)		
Repeatability [% of the final value]		< ± 0,5; (with temperature fluctuations < 10 K)		
Characteristics deviation [% of the final value]		< ± 1,5 (BFSL) / < ± 2,5 (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)		
Temperature drift per 10 K		< ± 0.5		
Software / programming				
Adjustment of the switch point		setting rings		
Operating conditions				
Ambient temperature	[°C]	-25...80		
Storage temperature	[°C]	-40...100		
Protection		IP 67		
Tests / approvals				
EMC		DIN EN 61000-6-2		
		DIN EN 61000-6-3		
Shock resistance		DIN IEC 68-2-27	50 g (11 ms)	
Vibration resistance		DIN IEC 68-2-6	20 g (10...2000 Hz)	
MTTF	[years]	540		
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data				
Weight	[g]	93		
Materials		PBT; PC; FKM; stainless steel (1.4404 / 316L)		
Materials (wetted parts)		stainless steel (1.4404 / 316L)		
Min. pressure cycles		50 million		
Process connection		threaded connection R 1/4 external thread internal thread:M5		
Restrictor element integrated		no (can be retrofitted)		
Displays / operating elements				
Display		operation	LED, green	
		switching status	LED, yellow	
With scale		yes		

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Remarks

Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection

