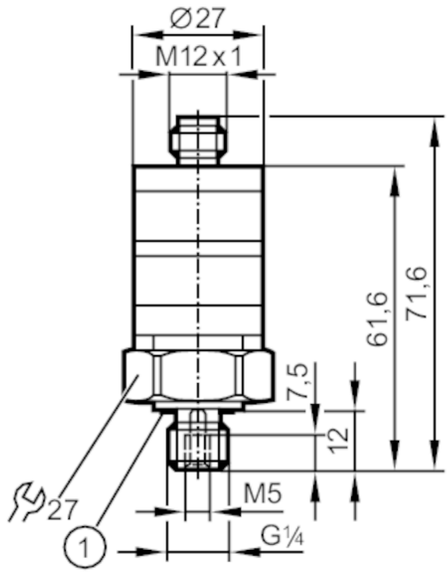
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PK6534

Pressure switch with intuitive switch point setting

PK-010-RFG14-HCPKG/US/ /W



1 Sealing

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 G 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		PNP		
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]	500		
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request		
Mechanical data			
Weight [g]	92.5		
Housing	cylindrical		
Dimensions [mm]	Ø 27 / L = 71.6		
Materials	PBT; PC; FKM; stainless steel (316L/1.4404)		
Materials (wetted parts)	stainless steel (316L/1.4404); FKM		
Min. pressure cycles	50 million		
Tightening torque [Nm]	25		
Process connection	threaded connection G 1/4 external thread internal thread:M5		
Restrictor element integrated	no (can be retrofitted)		

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Displays / operating elements		
Display	operation	LED, green
	switching status	LED, yellow
With scale	yes	

Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection

