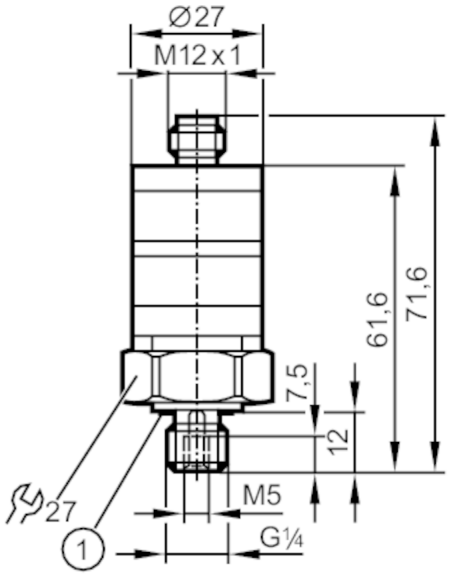
PK5524

Pressure switch with intuitive switch point setting

PK-010-RFG14-PSPKG/US/ /W



1 Sealing

Product characteristics			
Number of inputs and outputs	Number of digital outputs: 1		
Measuring range	0...10 bar	0...145 psi	
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. burst pressure	300 bar	4350 psi	30 MPa
Pressure rating	25 bar	362 psi	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: 1		
Outputs			
Total number of outputs	1		
Output signal	switching signal		
Electrical design	PNP		
Number of digital outputs	1		
Output function	normally open		

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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...145 psi
Set point SP	0.5...10 bar	7.5...145 psi
Hysteresis	0.2 bar	2.9 psi
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 ring	
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]	576	
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	
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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; Contacts: 4



Connection

