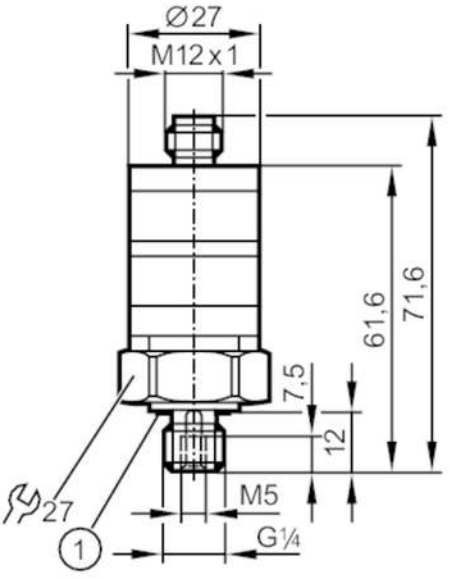
PK6524

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...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. bursting pressure		300 bar	4350 psi
Pressure rating		25 bar	362 psi
Type of pressure		relative pressure	
MAWP (for applications according to CRN)		25 bar	362 psi
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	

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Output function		complementary	
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
Reset point rP		0.3...9.8 bar	5...142 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 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 EN 60068-2-27	50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6	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	
Materials		PBT; PC; FKM; stainless steel (1.4404 / 316L)	
Materials (wetted parts)		stainless steel (1.4404 / 316L); 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



Connection

