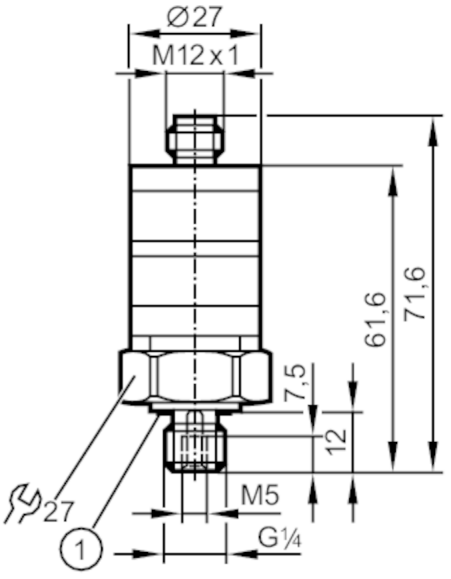
PK6524

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. burst pressure	300 bar	4350 psi	30 MPa
Pressure rating	25 bar	362 psi	2.5 MPa
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
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; Contacts: 4



Connection

