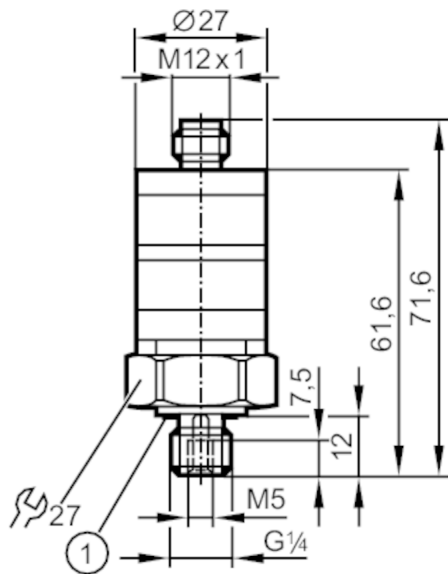


PK7520



Pressure switch with intuitive switch point setting

PK-400-SFG14-QSPKG/US/ IW



1 sealing



Product characteristics			
Number of inputs and outputs	Number of digital outputs: 2		
Measuring range	0...400 bar	0...5800 psi	
Process connection	threaded connection G 1/4 external thread Internal thread:M5		
Application			
Application	for industrial applications		
Media	liquids and gases		
Medium temperature	-25...80		
Min. bursting pressure	1600 bar	23200 psi	160 MPa
Pressure rating	600 bar	8700 psi	60 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	normally open		



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PK-400-SFG14-QSPKG/US/ /W

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		yes (non-latching)
Overload protection		yes

Measuring/setting range

Measuring range	0...400 bar	0...5800 psi
Set point SP	12...400 bar	174...5800 psi
Hysteresis	8 bar	116 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
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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]	668	
Pressure equipment directive	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight	[g]	94.5
Housing		tubular
Dimensions	[mm]	Ø 27 / L = 71.6
Material		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
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	Switching status	2 x LED, yellow
With scale		yes

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

