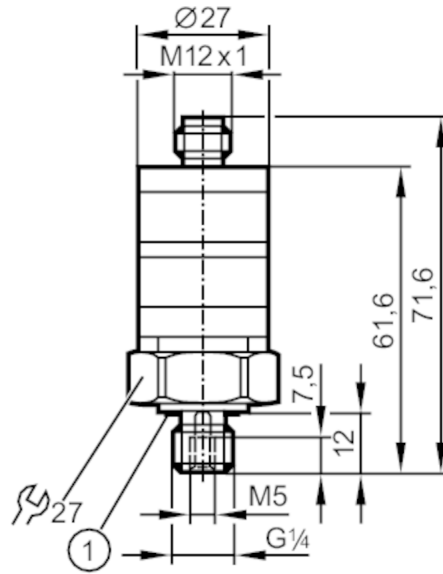


PK8530



Pressure switch with intuitive switch point setting

PK-400-SFG14-HCNKG/US/ IW



1 Sealing



Application		
Media	liquids and gases	
Medium temperature [°C]	-25...80	
Pressure rating	600 bar	60 MPa
Min. bursting pressure	1600 bar	160 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	
Outputs		
Total number of outputs	2	
Output signal	switching signal	
Electrical design	NPN	
Number of digital outputs	2	
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	

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Measuring/setting range		
Measuring range	0...400 bar	0...40 MPa
Set point SP	20...400 bar	2...40 MPa
Reset point rP	12...392 bar	1.2...39.2 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	
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 61000-4-2 ESD	4 kV CD / 8 kV AD
	DIN EN 61000-4-3 HF radiated	10 V/m
	DIN EN 61000-4-4 Burst	2 kV
	DIN EN 61000-4-6 HF conducted	10 V
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]	540
Mechanical data		
Weight	[g]	95.8
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
Process connection	threaded connection G 1/4 external thread internal threadM5	
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		

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Connection

