PK6731

Pressure switch with intuitive switch point setting

PK-250-SFP14-HCPKG/US/ /W

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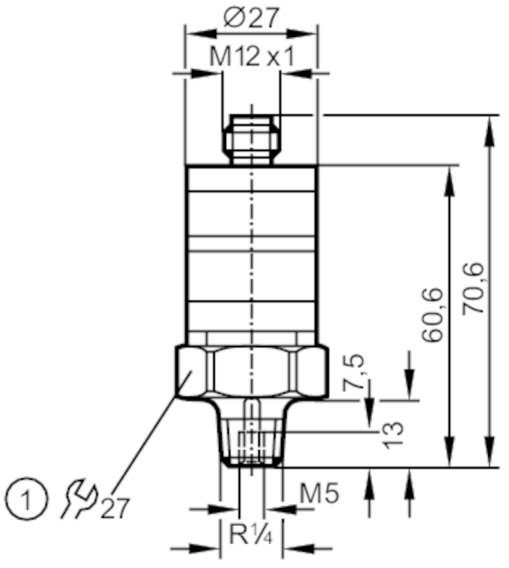

1 Tightening torque 25 Nm

Product characteristics			
Number of inputs and outputs		Number of digital outputs: 2	
Measuring range		0...250 bar	0...25 MPa
Process connection		threaded connection R 1/4 external thread internal thread:M5	
Application			
Application		for industrial applications	
Media		liquids and gases	
Medium temperature	[°C]	-25...80	
Min. bursting pressure		1000 bar	100 MPa
Pressure rating		400 bar	40 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	

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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...250 bar	0...25 MPa
Set point SP		12.5...250 bar	1.25...25 MPa
Reset point rP		7.5...245 bar	0.75...24.5 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	
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		EN 61000-4-2 ESD	4 kV CD / 8 kV AD
		EN 61000-4-3 HF radiated	10 V/m
		EN 61000-4-4 Burst	2 kV
		EN 61000-4-6 HF conducted	10 V
Shock resistance		DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance		DIN IEC 68-2-6	20 g (10...2000 Hz)
Mechanical data			
Materials		PBT; PC; FKM; stainless steel (316L/1.4404)	
Materials (wetted parts)		stainless steel (316L/1.4404)	
Min. pressure cycles		50 million	
Process connection		threaded connection R 1/4 external thread internal thread:M5	
Restrictor element integrated		no (can be retrofitted)	
Displays / operating elements			
Display		operation	LED, green
		switching status	LED, yellow

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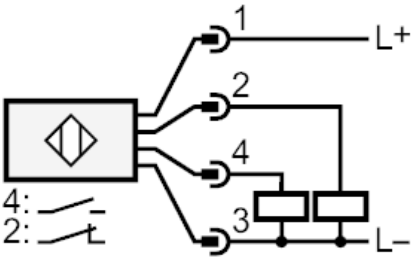
Remarks

Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A

Connection