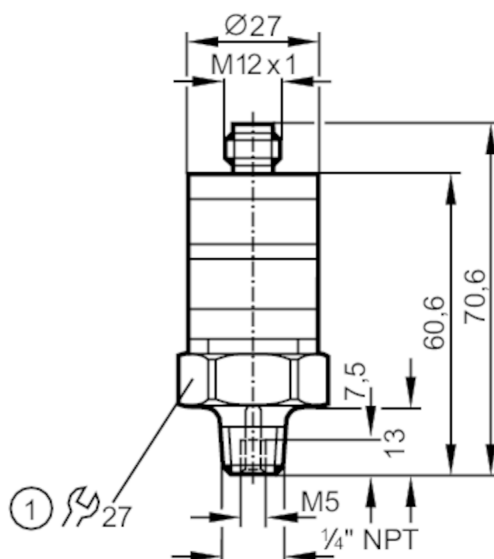




Pressure switch with intuitive switch point setting

PK-250-SFN14-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...3625 psi
Process connection	threaded connection 1/4" NPT external thread internal thread:M5	

Application

Application	for industrial applications	
Media	liquids and gases	
Medium temperature [°C]	-25...80	
Min. bursting pressure	1000 bar	14500 psi
Pressure rating	400 bar	5800 psi
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
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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...3625 psi
Set point SP	12.5...250 bar	181...3625 psi
Reset point rP	7.5...245 bar	109...3553 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	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 61000-4-5 Surge	0,5/1 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 1/4" NPT external thread internal thread:M5
Restrictor element integrated	no (can be retrofitted)

Displays / operating elements		
Display	operation	LED, green
	switching status	LED, yellow

PK6221



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Remarks

Pack quantity

1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection

