



Pressure switch with intuitive switch point setting

PK-250-SFG14-PSPKG/US/ IW



1 Sealing



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1	
Measuring range	0...250 bar	0...3625 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. 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: 1
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Outputs

Total number of outputs	1
Output signal	switching signal
Electrical design	PNP
Number of digital outputs	1
Output function	normally open



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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	7.5...250 bar	109...3625 psi
Hysteresis	5 bar	72 psi

Accuracy / deviations

Switch point accuracy	[X16]	$< \pm 2,5$; (Setting accuracy)
Repeatability	[X16]	$< \pm 0,5$; (with temperature fluctuations < 10 K)
Characteristics deviation	[X16]	$< \pm 1,5$ (BFSL) / $< \pm 2,5$ (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)
Temperature drift per 10 K		$< \pm 0.5$

Software / programming

Adjustment of the switch point		setting ring
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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	[ANN]	511
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight	[g]	97.4
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 thread:M5	
Restrictor element integrated	no (can be retrofitted)	

Displays / operating elements

Display	operation	LED, green
	switching status	LED, yellow
With scale	yes	

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Remarks

Pack quantity

1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection

