



Pressure switch with intuitive switch point setting

PK-100-SFG14-PSPKG/US/ IW



1 Sealing



Product characteristics

Number of inputs and outputs	Number of digital outputs: 1	
Measuring range	0...100 bar	0...1450 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
Min. bursting pressure [MPa]	100	
Pressure rating	200 bar	2900 psi
Pressure rating [MPa]	20	
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



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Number of digital outputs	1
Output function	normally open
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...100 bar	0...1450 psi
Set point SP	3...100 bar	44...1450 psi
Hysteresis	2 bar	29 psi

Accuracy / deviations	
Switch point accuracy [% of the final value]	$< \pm 2,5$; (Setting accuracy)
Repeatability [% of the final value]	$< \pm 0,5$; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the final value]	$< \pm 1,5$ (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

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]	1030	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data	
Weight [g]	93.5
Housing	cylindrical
Dimensions [mm]	$\varnothing 27$ / L = 71.6
Materials	PBT; PC; FKM; stainless steel (316L/1.4404)
Materials (wetted parts)	stainless steel (316L/1.4404); FKM
Min. pressure cycles	50 million
Tightening torque [Nm]	25
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Restrictor element integrated	no (can be retrofitted)
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Displays / operating elements

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

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

