



Pressure switch with intuitive switch point setting

PK-100-SFG14-HCPKG/US/ IW



1 Sealing



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2		
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. burst pressure	1000 bar	14500 psi	100 MPa
Pressure rating	200 bar	2900 psi	20 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
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Outputs

Total number of outputs	2
Output signal	switching signal
Electrical design	PNP
Number of digital outputs	2
Output function	complementary



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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...100 bar	0...1450 psi
Set point SP	5...100 bar	75...1450 psi
Reset point rP	3...98 bar	50...1420 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	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]	450
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data	
Weight	[g] 94
Housing	cylindrical
Dimensions	[mm] Ø 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; Contacts: 4



Connection

