

PK8731



Pressure switch with intuitive switch point setting

PK-250-SFP14-HCNKG/US/ /W



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	NPN	
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	yes (non-latching)
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	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]	540	
Pressure equipment directive	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data	
Weight [g]	94.5
Housing	tubular
Dimensions [mm]	Ø 27 / L = 70.6
Material	PBT; PC; FKM; stainless steel (1.4404 / 316L)
Materials (wetted parts)	stainless steel (1.4404 / 316L)
Min. pressure cycles	50 million
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Restrictor element integrated	no (can be retrofitted)

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Displays / operating elements

Display	Power	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

