

PK8530



Pressure switch with intuitive switch point setting

PK-400-SFG14-HCNKG/US/ IW



1 sealing



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2	
Measuring range	0...400 bar	0...40 MPa
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	1600 bar	160 MPa
Pressure rating	600 bar	60 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	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...400 bar	0...40 MPa
Set point SP	20...400 bar	2...40 MPa
Reset point rP	12...392 bar	1.2...39.2 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
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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 EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	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 = 71.6
Material		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)

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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

