



Pressure switch with intuitive switch point setting

PK-010-RFG14-HCPKG/US/ IW



1 Sealing



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2	
Measuring range	0...10 bar	0...145 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	300 bar	4350 psi
Min. bursting pressure [MPa]	30	
Pressure rating	25 bar	362 psi
Pressure rating [MPa]	2.5	
Type of pressure	relative pressure	
MAWP (for applications according to CRN)	25 bar	362 psi

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



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Electrical design	PNP
Number of digital outputs	2
Output function	complementary
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...10 bar	0...145 psi
Set point SP	0.5...10 bar	7.5...145 psi
Reset point rP	0.3...9.8 bar	5...142 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
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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]	500	
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

Mechanical data

Weight [g]	92.5
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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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	

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A



Connection

