



Pressure switch with intuitive switch point setting

PK-010-RFG14-QSPKG/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
Pressure rating	25 bar	362 psi
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	normally open



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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...10 bar	0...145 psi
Set point SP		0.3...10 bar	4.5...145 psi
Hysteresis		0.2 bar	2.9 psi
Accuracy / deviations			
Switch point accuracy	[X16]	< ± 2,5; (Setting accuracy)	
Repeatability	[X16]	< ± 0,5; (with temperature fluctuations < 10 K)	
Characteristics deviation	[X16]	< ± 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	[ANN]	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	
Materials		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)	
Displays / operating elements			
Display		switching status	2 x LED, yellow
With scale		yes	
Remarks			
Pack quantity		1 pcs.	

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Electrical connection

Connector: 1 x M12; coding: A



Connection

