

PK7524



Pressure switch with intuitive switch point setting

PK-010-RFG14-QSPKG/US/ IW



1 Sealing



Application		
Media	liquids and gases	
Medium temperature	-25...80 [°C]	
Pressure rating	25 bar	362 psi
Min. bursting pressure	300 bar	4350 psi
Type of pressure	relative pressure	
Electrical data		
Operating voltage	9.6...32 DC [V]	
Current consumption	< 25 [mA]	
Min. insulation resistance	100; (500 V DC) [MΩ]	
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	
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 [% 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	
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	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
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]	500	

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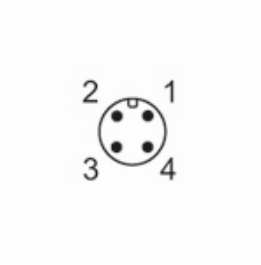
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Mechanical data		
Weight	[g]	93
Materials	PBT; PC; FKM; stainless steel (1.4404 / 316L)	
Materials (wetted parts)	stainless steel (1.4404 / 316L); FKM	
Min. pressure cycles	50 million	
Tightening torque	[Nm]	25
Process connection	threaded connection G 1/4 external thread internal threadM5	
Displays / operating elements		
Display	switching status	2 x LED, yellow
With scale	yes	
Remarks		
Pack quantity	1 pcs.	

Electrical connection

Connector: 1 x M12



Connection

