

PK6524



Pressure switch with intuitive switch point setting

PK-010-RFG14-HCPKG/US/ IW



1 Sealing



Application

Application	for industrial applications	
Media	liquids and gases	
Medium temperature [°C]	-25...80	
Pressure rating	25 bar	362 psi
Min. bursting pressure	300 bar	4350 psi
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

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Outputs		
Total number of outputs	2	
Output signal	switching signal	
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	
Electrical design	PNP	
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	
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]	91.8	
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	

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Displays / operating elements		
Display	operation	LED, green
	switching status	LED, yellow
With scale		yes

Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12



Connection

