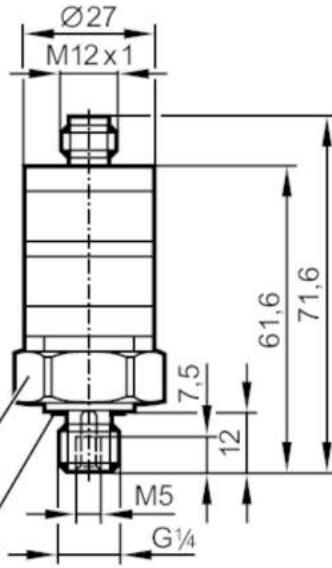


Pressure switch with intuitive switch point setting

PK-010-RFG14-QSPKG/US/ /W



1 Sealing



Application

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	

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
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
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
Pressure Equipment Directive	Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request	

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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



Connection

