



Pressure switch PK6524

URL: <https://www.sxplc.com/pressure-switch-pk6524>

Product data sheet

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	
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
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	yes (non-latching)
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]	$< \pm 2,5$; (Setting accuracy)
Repeatability [% of the final value]	$< \pm 0,5$; (with temperature fluctuations < 10 K)
Characteristics deviation [% of the final value]	$< \pm 1,5$ (BFSL) / $< \pm 2,5$ (LS); (BFSL = Best Fit Straight Line; LS = limit value setting)
Temperature drift per 10 K	$< \pm 0.5$

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

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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
Material	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	Power	LED, green
	Switching status	LED, yellow
With scale	yes	

Remarks

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Pack quantity	1 pcs.
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Electrical connection

Connection	Connector: 1 x M12; coding: A
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