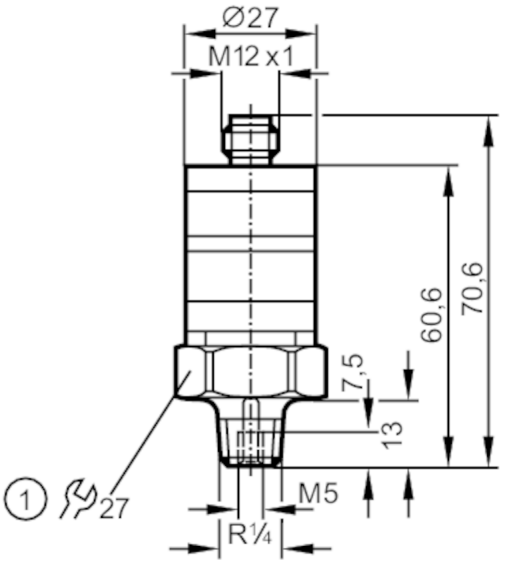
PK5723

Pressure switch with intuitive switch point setting

PK-025-SFR14-PSPKG/US/ /W



1 Tightening torque 25 Nm

Product characteristics			
Number of inputs and outputs		Number of digital outputs: 1	
Measuring range		0...25 bar	0...2.5 MPa
Process connection		threaded connection R 1/4 external thread internal thread:M5	
Application			
Application		for industrial applications	
Media		liquids and gases	
Medium temperature	[°C]	-25...80	
Min. bursting pressure		500 bar	50 MPa
Pressure rating		60 bar	6 Mpa
Type of pressure		relative pressure	
Electrical data			
Operating voltage	[V]	9.6...32 DC; (to SELV/PELV)	
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: 1	
Outputs			
Total number of outputs		1	
Output signal		switching signal	
Electrical design		PNP	
Number of digital outputs		1	
Output function		normally open	

PK5723

Pressure switch with intuitive switch point setting

PK-025-SFR14-PSPKG/US/ /W

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...25 bar	0...2.5 MPa
Set point SP		0.75...25 bar	0.075...2.5 MPa
Hysteresis		0.5 bar	0.05 MPa
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 ring	
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]	771	
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data			
Weight	[g]	96	
Materials		PBT; PC; FKM; stainless steel (1.4404 / 316L)	
Materials (wetted parts)		stainless steel (1.4404 / 316L)	
Min. pressure cycles		50 million	
Tightening torque	[Nm]	25; (recommended tightening torque; depends on lubrication, seal and pressure rating)	
Process connection		threaded connection R 1/4 external thread internal thread:M5	
Restrictor element integrated		no (can be retrofitted)	
Displays / operating elements			
Display		operation	LED, green
		switching status	LED, yellow

PK5723

Pressure switch with intuitive switch point setting

PK-025-SFR14-PSPKG/US/ /W

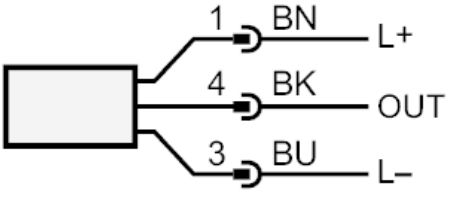
Remarks	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT	switching output
	colours to DIN EN 60947-5-2
	Core colours :
BK =	black
BN =	brown
BU =	blue