FESTO

Pressure sensors SPBA, for valves

Technical data

Pressure sensor SPBA

- Pressure sensor with permanently set switching point
- Electrical connection: Plug M12x1 to EN 60947-5-2
- Mounting: Screw-in



General technical data				
Туре		SPBA-P2R-G18-2P	SPBA-P2R-G18-W	
Electrical connection		Plug to EN 60947-5-2, M12x1, 4-pin, round		
Operating voltage range	[V DC]	21.6 26.4		
Max. output current	[mA]	500	1,000	
Minimum load current (at 24 V)	[mA]	-	2	
Protection against short circuit		Yes	-	
Reverse polarity protection		For all electrical connections	-	
Type of mounting		Screw-in, 22 mm A/F	Screw-in, 24 mm A/F	
Mounting position		Any	·	
Pneumatic connection		G1/8		
Weight	[g]	50	80	
Protection class to EN 60529		IP65	·	

Materials		
Туре	SPBA-P2R-G18-2P 	SPBA-P2R-G18-W
Housing	High-alloy stainless steel	Steel
Plug	PBT	POM
Note on materials	RoHS-compliant	

Operating and environmental conditions		
Туре	SPBA-P2R-G18-2P	SPBA-P2R-G18-W
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]	
Note about the operating/pilot medium	Operation with lubricated medium possible	
Ambient temperature [°C]	-5 +50	
Operating pressure [bar]	-1 +10	
Corrosion resistance class CRC ¹⁾	4	0
CE marking (see declaration of conformity)	To EU EMC Directive ²⁾	-
	To EU Machinery Directive	To EU Machinery Directive

1) Corrosion resistance class 4 according to Festo standard 940 070

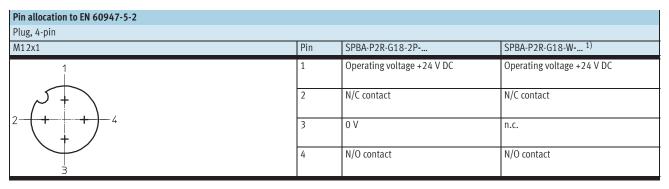
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.
 For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com → Support → User documentation. If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

Pressure sensors SPBA, for valves

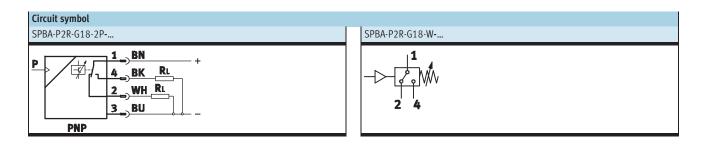
Technical data

Input signal/measuring element		
Туре	SPBA-P2R-G18-2P 	SPBA-P2R-G18-W
Measured variable	Relative pressure	Relative pressure
Method of measurement	Thin-film metal pressure sensor	Pneumatic/electrical pressure
		transducer

Electrical data				
Туре		SPBA-P2R-G18-2P 	SPBA-P2R-G18-W	
Switching output		2x PNP	Contacting	
Switching function		Threshold value - fixed hysteresis		
Switching element function		Antivalent	Changeover switch	
Switch-on point	[bar]	0.25, permanently set	•	
Max. switch-on point	[bar]	0.40		
Min. switch-off point	[bar]	0.05		



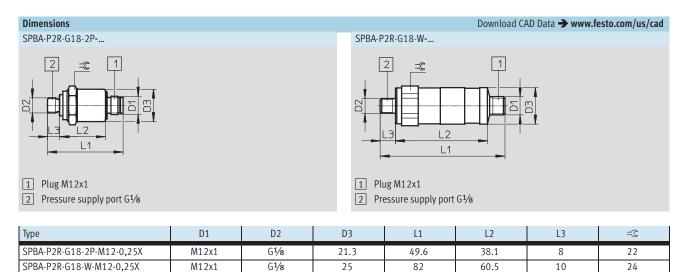
1) Allocation applies to PNP switching logic, other connection types possible



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Ordering data				
	Description		Part No.	Туре
Pressure switch				
	Mechanical pressure switch, pneumatic/electrical pressure transducer, conta switching output	acting	8000033	SPBA-P2R-G18-W-M12-0,25X
S	Electrical pressure switch, thin-film metal pressure sensor, 2xPNP switching output		8000210	SPBA-P2R-G18-2P-M12-0,25X
Connecting cable				
ST. ST. ST.	Socket M12x1, 5-pin; plug M12x1, 4-pin; for connecting pressure sensor	0.5 m	8000208	NEBU-M12G5-K-0.5-M12G4

FESTO

Product Range and Company Overview

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