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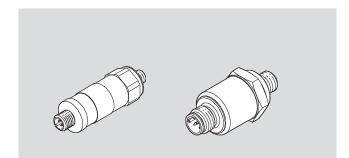
**FESTO** 

# 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 <b></b>	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 to ISO 8573:2010 [7:4:4]			
Note about the operating/pilot medium	Lubricated operation possible			
Ambient temperature [°C]	-5 +50			
Operating pressure [bar]	-1 +10	-1 +10		
Corrosion resistance class CRC <sup>1)</sup>	4	0		
CE marking (see declaration of conformity)	To EU EMC Directive <sup>2)</sup>	-		
	To EU Machinery Directive	To EU Machinery Directive		

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

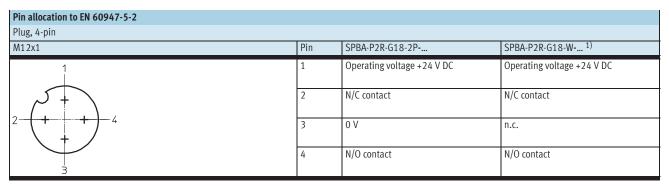
Components subject to particularly high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.
 For information about the applicability of the component see the manufacturer's EC 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

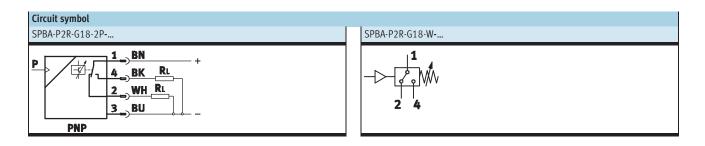
Technical data

Input signal/measuring element		
Туре	SPBA-P2R-G18-2P <b></b>	SPBA-P2R-G18-W <b></b>
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 <b></b>	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	



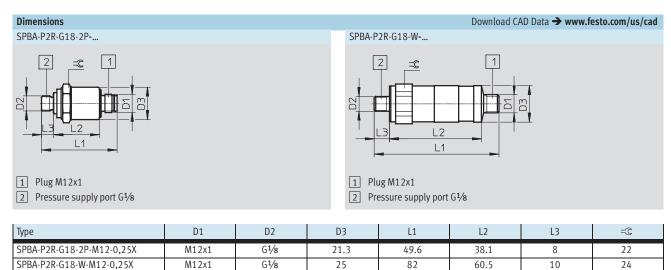
1) Allocation applies to PNP switching logic, other connection types possible



FESTO

# Pressure sensors SPBA, for valves

Technical data



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

# FESTO

# Product Range and Company Overview

## **A Complete Suite of Automation Services**

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



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**Pneumatics** Pneumatic linear and rotary actuators, valves, and air supply



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Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

## Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.





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