Pressure Sensors SPAB, with Display

Pressure sensors SPAB, with display

Product range overview



- Pressure measuring range -1 ... +1 or 0 ... 10 bar
- Relative pressure measurement
- Pressure supply port G½, R½ or NPT1/8-27
- Switch output PNP, NPN and analogue output
- Two-part, multi-coloured display
- Copy function (settings can be transferred from device to device)
- Simple commissioning thanks to intuitive operation
- Compact design 30x30 mm

Detailed product information

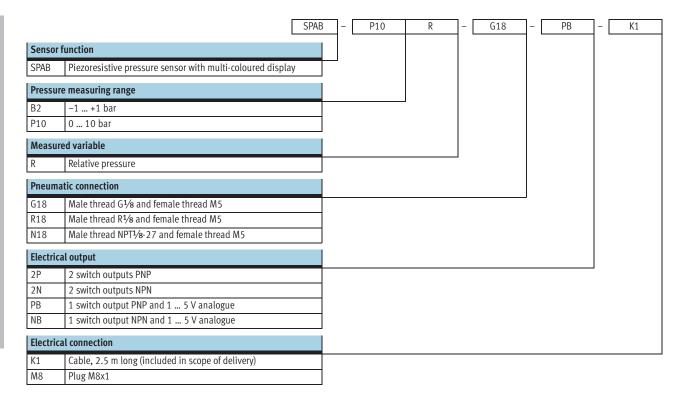
→ www.festo.com/catalogue/spab

Product range overview								
Method of measure- ment	Measured variable	Pressure measuring range	Switching function	Pneumatic connection		Electrical output		
		[bar]		Male thread	Female thread	Digital	Analogue	
Piezoresistive pres-	1x relative pressure	-1 +1 or	Freely programmable	G1/8,	M5	1x PNP	1 5 V	
sure sensor with dis-		0 10		R1/8 or NPT1/8-27		2x PNP	-	
play						1x NPN	1 5 V	
						2x NPN	-	

Pressure sensors SPAB, with display

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Type codes



Pressure sensors SPAB, with display Technical data

General technical data							
Design							
Pressure measuring range [bar] -1 +1 0 10							
Measured variable		Relative pressure					
Pneumatic connection		Male thread G1/8, R1/8	or NPT1/8-27				
		Female thread M5					
Type of display		Multi-coloured illumin	ated LCD				
Accuracy FS ¹⁾		±1%		±2%			
Setting options		Via display and buttor	IS				
		Teach-in					
Type of mounting		Screw-in					
		Via accessories					
		•					
Electrical data							
Switch output		2x PNP or 2x NPN	1x PNP or 1x NPN	2x PNP or 2x NPN	1x PNP or 1x NPN		
Analogue output	[V]	-	1 5	-	1 5		
Switching element function		Switchable	•	•	•		
Switching function		Freely programmable					
Operating voltage range	[V DC]	12 24					
Max. output current	[mA]	100					
Electrical connection		Plug M8x1, 4-pin, rou	nd design to EN 60 947-5-	o EN 60 947-5-2			
		Cable, 4-wire					
Protection against short circuit		Yes					
Protection against polarity reversal		For operating voltage					
Protection class		IP40					
Operating and environmental conditions Operating medium		Filtered commenced of		lt			
Ambient temperature	[nC]		r, unlubricated, grade of fi	itration 40 µm			
	[°C]	-10 +50					
CE mark (see declaration of conformity) In accordance with EU EMC directive							
Certification		C tick	C-UL-US listed (OL)				
		CHICK					
Materials							
Housing		Reinforced acrylic butadiene styrene, reinforced polybutylene terephthalate					
Note on materials		Conforms to RoHS					

^{1) %} FS = % of measuring range (full scale)

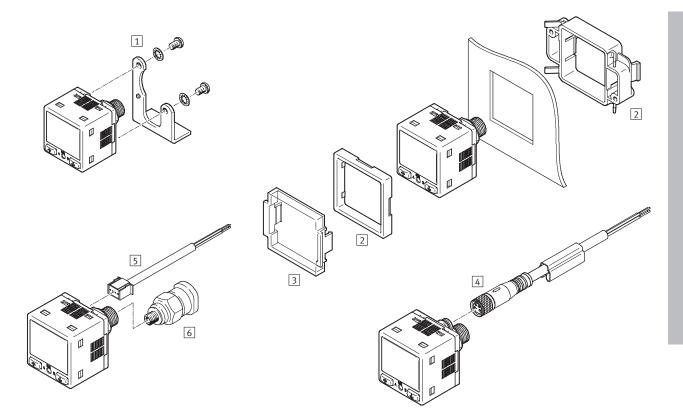
Pressure sensors SPAB, with display Technical data

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Ordering data		,					
/ersion	Pressure measuring range	ange Electrical output		Electrical connection			
				Cable ¹⁾		Plug	
	[bar]	Digital	Analogue	Part No.	Туре	Part No.	Туре
neumatic conne	ction G½						
	-1 +1	1x PNP	1 5 V	552 356	SPAB-B2R-G18-PB-K1	553 152	SPAB-B2R-G18-PB-M8
(6 *** ***		2x PNP	-	552 350	SPAB-B2R-G18-2P-K1	553 146	SPAB-B2R-G18-2P-M8
\ \$/		1x NPN	1 5 V	552 359	SPAB-B2R-G18-NB-K1	553 155	SPAB-B2R-G18-NB-M8
		2x NPN	-	552 353	SPAB-B2R-G18-2N-K1	553 149	SPAB-B2R-G18-2N-M8
	0 10	1x PNP	1 5 V	552 368	SPAB-P10R-G18-PB-K1	553 164	SPAB-P10R-G18-PB-M8
		2x PNP	-	552 362	SPAB-P10R-G18-2P-K1	553 158	SPAB-P10R-G18-2P-M8
Ū		1x NPN	1 5 V	552 371	SPAB-P10R-G18-NB-K1	553 167	SPAB-P10R-G18-NB-M8
		2x NPN	-	552 365	SPAB-P10R-G18-2N-K1	553 161	SPAB-P10R-G18-2N-M8
neumatic conne	ction R½						
	-1 +1	1x PNP	1 5 V	552 357	SPAB-B2R-R18-PB-K1	553 153	SPAB-B2R-R18-PB-M8
(* **		2x PNP	-	552 351	SPAB-B2R-R18-2P-K1	553 147	SPAB-B2R-R18-2P-M8
\		1x NPN	1 5 V	552 360	SPAB-B2R-R18-NB-K1	553 156	SPAB-B2R-R18-NB-M8
		2x NPN	-	552 354	SPAB-B2R-R18-2N-K1	553 150	SPAB-B2R-R18-2N-M8
	0 10	1x PNP	1 5 V	552 369	SPAB-P10R-R18-PB-K1	553 165	SPAB-P10R-R18-PB-M8
		2x PNP	-	552 363	SPAB-P10R-R18-2P-K1	553 159	SPAB-P10R-R18-2P-M8
•		1x NPN	1 5 V	552 372	SPAB-P10R-R18-NB-K1	553 168	SPAB-P10R-R18-NB-M8
		2x NPN	-	552 366	SPAB-P10R-R18-2N-K1	553 162	SPAB-P10R-R18-2N-M8
neumatic conne	· · · · · · · · · · · · · · · · · · ·						
	-1 +1	1x PNP	1 5 V	552 358	SPAB-B2R-N18-PB-K1	553 154	SPAB-B2R-N18-PB-M8
(2x PNP	-	552 352	SPAB-B2R-N18-2P-K1	553 148	SPAB-B2R-N18-2P-M8
\ \$/		1x NPN	1 5 V	552 361	SPAB-B2R-N18-NB-K1	553 157	SPAB-B2R-N18-NB-M8
		2x NPN	-	552 355	SPAB-B2R-N18-2N-K1	553 151	SPAB-B2R-N18-2N-M8
	0 10	1x PNP	1 5 V	552 370	SPAB-P10R-N18-PB-K1	553 166	SPAB-P10R-N18-PB-M8
		2x PNP	-	552 364	SPAB-P10R-N18-2P-K1	553 160	SPAB-P10R-N18-2P-M8
•		1x NPN	1 5 V	552 373	SPAB-P10R-N18-NB-K1	553 169	SPAB-P10R-N18-NB-M8
		2x NPN	-	552 367	SPAB-P10R-N18-2N-K1	553 163	SPAB-P10R-N18-2N-M8

¹⁾ Connecting cable NEBU-L1... (2.5 m long) included in scope of delivery.

Pressure sensors SPAB, with display Peripherals overview



	Accessories					
ſ	1 Mounting bracket					
Ī	2 Front panel installation kit					
Γ	3 Safety guard					

Ordering da	ta – Conn	ecting cable	Technical data → 261					
	Number	Cable	Part No.	Туре				
	of cores	length [m]						
M8x1, strai	M8x1, straight socket							
	4	2.5	541 342	NEBU-M8G4-K-2.5-LE4				
6		5	541 343	NEBU-M8G4-K-5-LE4				
M8x1, angle	ed socket							
	4	2.5	541 344	NEBU-M8W4-K-2.5-LE4				
6		5	541 345	NEBU-M8W4-K-5-LE4				
Square, stra	ight socke	t						
	4	2.5	552 374	NEBU-L1G4-K-2.5-LE4 ¹⁾				
		5	552 375	NEBU-L1G4-K-5-LE4				

¹⁾ Included in the scope of delivery with SPAB-...-K1

Accessories
4 Connecting cable NEBU-M84
5 Connecting cable NEBU-L1G4 with square, straight socket
6 Push-in fitting QSM-M5

	Description	Part No.	Туре
5 B	Mounting bracket	552 376	SAMH-P4-A
	Front panel installation kit	552 377	SAMH-P4-F
	Safety guard	552 378	SACC-P4-G

Ordering data - Push-in fittings Technical data → www.festo.com/catalogue/qsm-m5								
Pneumatic con- For tubing O.D. Part No. Type nection [mm]								
S	M5	6	153 304 153 306	QSM-M5-4 QSM-M5-6				

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.



Custom Automation ComponentsComplete custom engineered solutions



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PLC's, operator interfaces, sensors
and I/O devices

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To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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