

Mechanical pressure switch Miniature S4110, S4111

**NC or NO contact
for applications with limited space**



S4110



S4111

Description

The small hexagon and minimal height make these switches particularly attractive for applications where space is limited. The minimal space requirements and light-weight nature of this product doesn't even come with a high price tag. In fact, the advantages offered by these pressure switches make them an excellent value when costs are given priority.

The miniature pressure switches are used for the control and monitoring of pressurized mediums in machine and plant construction. The switch can be used with many gaseous and liquid media.

These diaphragm type pressure switches in brass or zinc plated steel housings are available off-the-shelf as break contacts or make contacts. An adjustment screw makes it easy to adjust the switching points on-site. Gold-plated contacts are also available as an option for low switching currents.

Features

- Small size (42 and 44 mm)
- Low weight (20 and 34 g)
- Low priced
- Low hysteresis

Applications

- Mechanical engineering
- Plant construction

Model S4110

Adjustment ranges (bar)	Overload limit (bar)	Repeat-ability ¹⁾ (bar)	Hysteresis (%)	Measuring principle	Switching function	
					NC	NO
0,5 ... 2	2	± 0.2	< 10	Diaphragm	S4110B071001	S4110B071002
1 ... 10	10	± 0.5			S4110B075001	S4110B075002

Model S4111

Adjustment ranges (bar)	Overload limit (bar)	Repeat-ability ¹⁾ (bar)	Hysteresis (%)	Measuring principle	Switching function	
					NC	NO
0.5 ... 2	2	± 0.2	< 10	Diaphragm	S4111B071001	S4111B071101
1 ... 8	8	± 0.5			S4111B144001	S4111B144101

The repeatability refers to 20 °C.

We suggest the suitable protection cap: AZM90X101005.

Model: S4110, S4111

Technical data

Mechanical pressure switch Miniature		
Model	S4110	S4111
Execution	positive gauge pressure	
Media	compressed air, neutral fluid	
Process connection	G 1/8	
Measuring principle	spring loaded diaphragm	
Materials		
Measuring element		
standard	NBR diaphragm	NBR diaphragm
optional	EPDM, FPM, others on request	EPDM, FPM, others on request
Thread		
standard	brass	plastic
optional	stainless steel, zinc plated steel	
Housing		
standard	brass, contact insert plastic	zinc plated steel, contact insert plastic
optional	stainless steel, zinc plated steel	stainless steel
Switching outputs		
Number	1	
Switching function	NC (plastic top black) NO (plastic top red)	
Switching element		
standard	silver plated contacts	
option	gold plated contacts	
Adjustment		
standard	in site, with adjustment screw	
option	factory adjusted	
Hysteresis	< 10 % of full scale	
Power rating¹⁾		
DC up to 42 V	max. 2 A	
AC up to 42 V	max. 2 A	
Load cycles	max. 200/min.	
Temperature ranges	-25 ... +85°C	-20 ... +75 °C
Electrical connection	spade terminals 2 x 6.3 x 0.8	
Protection type	IP00	
Mounting position	any	
Weight	0.03 kg	0.02 kg

¹⁾ All specification for ohmic load.

Dimensions (in mm)		Electrical connection	
S4110	S4111	NC	NO

Subject to technical alternations