

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 requirement 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 will make them an excellent value when cost is a priority.

The miniature pressure switch is 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 or piston type pressure switches in brass 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 |
| 0,3... 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 | NC |
| 0,3... 2 | 2 | ±0,2 | < 10 | Diaphragm | S4111B071001 | S4111B071002 |
| 1... 8 | 8 | ±0,5 | | | S4111B144001 | S4111B144002 |

¹⁾ 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 optional | NBR diaphragm EPDM, FPM, others on request | NBR diaphragm EPDM, FPM, others on request | |
| Thread standard optional | brass stainless steel, zinc plated steel | plastic | |
| Housing standard optional | brass, contact insert plastic stainless steel, zinc plated steel | brass, contact insert plastic stainless steel, zinc plated steel | |
| Switching outputs | | | |
| Number | 1 | | |
| Switching function | NC (plastic top black) NO (plastic top red) | | |
| Switching element standard option | silver plated contacts gold plated contacts | | |
| Adjustment standard option | in site, with adjustment screw factory adjusted | | |
| Hysteresis | < 10% of F.S. | | |
| Power rating¹⁾ | | | |
| DC up to 42V AC up to 42V | max. 2 A 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 | IP 00, with protection cap IP54 | | |
| 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