

Mechanical pressure switch S4310

Block-type pressure switches with changeover contact



Description

By virtue of their robust and durable design, block-type pressure switches guarantee a long service life even under high loads. The flange version can be screwed directly to the hydraulic block. This mechanically stable union secures the pressure connection at the same time, without further pipework.

The switches can be used in any application where the requirement is for high switching performance under high pressure. The control and monitoring of process sequences would be an example of this. The measuring ranges and choice of materials in the series S4310 make these pressure switches particularly interesting for all measuring tasks in pneumatic systems.

The robust design of these pressure switches guarantees a long service life even under high loading, and allows a switching performance of 250 V and up to 5 A. All switches are fitted with DIN plugs, which allow the electrical connections to be made quickly and easily. The S4310 can be supplied from stock. The adjusting screw allows the setpoints to be easily adjusted in situ. Gold-plated contacts are also optionally available for low switching currents.

Features

- Changeover contact
- Long service life
- Block-type design

Applications

- Mechanical engineering
- Plant construction
- Filter monitoring

Adjustment ranges (bar)	Overload limit (bar)	Burst pressure (bar)	Repeat-ability ¹⁾ (bar)	Hysteresis (%)	Measuring principle	Switching function
						SPDT
0.3 ... 6	6	10	± 0.2 ... 0.5	15 ... 25	Diaphragm	S4310B074001
1 ... 16	16	25	± 0.2 ... 1.0			S4310B076001

¹⁾ The repeatability refers to 20°C.

Model: S4310

Technical data

Mechanical pressure switch in block type	
Model	S4310
Execution	positive gauge pressure
Media	compressed air, neutral fluids, self-lubricating fluids
Process connection standard optional	G1/4 internal and flange mounting others on request
Measuring principle	spring loaded diaphragm
Materials Measuring element standard optional Thread Housing	NBR EPDM; VITON®; others on request aluminium anodized aluminium
Switching outputs Number Switching function Switching element standard option Adjustment standard option	1 SPDT microswitch silver plated contacts gold plated contacts on-site, with adjustment screw factory adjusted
Hysteresis	15 ... 25 %
Power rating¹⁾ DC up to 42 V up to 110 V AC up to 250 V	2 A 0.5 A 5 A
Load cycles	max. 200/min
Mechanical life²⁾	10 ⁶
Temperature ranges	-25°C ... +85 °C
Electrical connection	L-plug acc. to DIN EN 175301-803
Protection type	IP65
Mounting position	any
Weight	approx. 0.2 kg

¹⁾ All specifications for ohmic loads. For voltages > 42 V regulations for protective means have to be regarded!

²⁾ Depending on mechanical and electrical load.

Dimensions (in mm)	Electrical connection
	<p>SPDT</p>

Subject to technical alternations