

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.

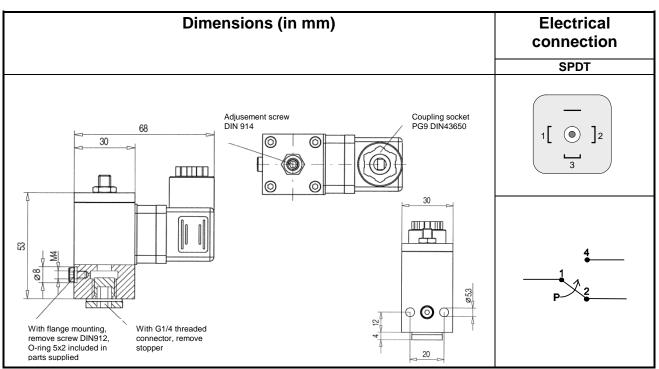
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Technical data

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



Subject to technical alternations