

Mechanical pressure switch S4320

Block-type pressure switches with changeover contact in steel casing



Description

By virtue of their robust and durable design, block-type pressure switches guarantee a long service life even under high loading. 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 S4320 make these pressure switches particularly interesting for all measuring tasks in pneumatic and hydraulic 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 S4320 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
- Hydraulic
- Pneumatic

Adjustment ranges	Overload limit	Repeat- ability ¹⁾	Hysteresis (%)	Measuring principle	Switching function
(bar)	(bar)	(bar)			SPDT
0,32	5	±0,2	15.05	Diaphragm	S4320B071001
110	20	±0,5	1525		S4320B075001
1070	120	±3,0	1525	Piston	S4320B127001
50200	300	±5,0			S4320B083001
50400	600	±9,0			S4320B086001

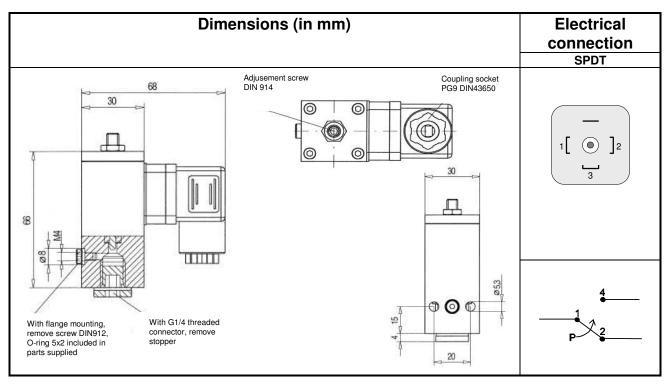
¹⁾ The repeatability refers to 20°C.

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Technical data

	Mechanical pressure switch in block type			
Model	S4320			
Execution	positive gauge pressure			
Media	compressed air, neutral fluid, self-lubricating fluid			
Process connection				
standard	G1/4 internal and also flange mounting			
optional	others on request			
Measuring principle	spring loaded diaphragm / <10 bar piston			
Materials	diaphragm variant > 10 bar steel piston			
Measuring element				
standard	NBR, >10 bar PUR			
optional	EPDM; Viton; others on request			
Thread	galvanized steel			
Housing	galvanized steel			
Switching outputs				
Number	1			
Switching function	SPDT			
Switching element	microswitch			
standard	silver plated contacts			
option	gold plated contacts			
Adjustment				
standard	in site, with adjustment screw			
option	factory adjusted			
Hysteresis	1520%			
Power rating ¹⁾				
DC up to 42 V	5 A			
up to 110 V	0,5 A			
AC up to 42 V / 250 V	5 A			
Load cycles	max. 200/min			
Temperature ranges	-25°C+85°C			
Electrical connection	L-plug acc. to DIN EN 175301-803			
Protection type	IP65			
Mounting position	any			
Weight	~0,2 kg			

¹⁾ All specification for ohmic load. For voltages > 42V regulation for protective means have to be regarded!



Subject of technical changes