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 (bar)	Overload limit (bar)	Repeat-ability[1] (bar)	Hysteresis (%)	Measuring principle	Switching function
					SPDT
0,3..2	5	±0,2	15..25	Diaphragm	S4320B071001
1..10	20	±0,5			S4320B075001
10..70	120	±3,0	15..25	Piston	S4320B127001
50..200	300	±5,0			S4320B083001
50..400	600	±9,0			S4320B086001

[1] The repeatability refers to 20ºC.

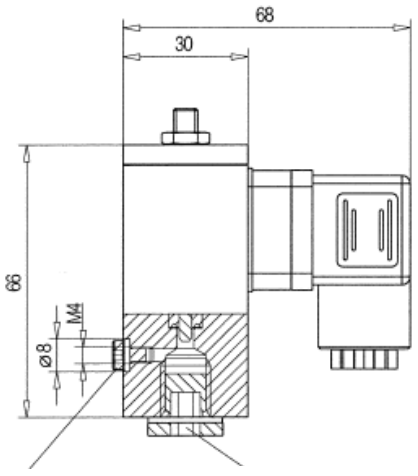
Model: S4320

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 optional	 G1/4 internal and also flange mounting others on request
Measuring principle	spring loaded diaphragm / <10 bar piston
Materials Measuring element standard optional Thread Housing	diaphragm variant > 10 bar steel piston NBR, >10 bar PUR EPDM; Viton; others on request galvanized steel galvanized steel
Switching outputs Number Switching function Switching element standard option Adjustment standard option	 1 SPDT microswitch silver plated contacts gold plated contacts in site, with adjustment screw factory adjusted
Hysteresis	15..20%
Power rating[1)] DC up to 42 V up to 110 V AC up to 42 V / 250 V	 5 A 0,5 A 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

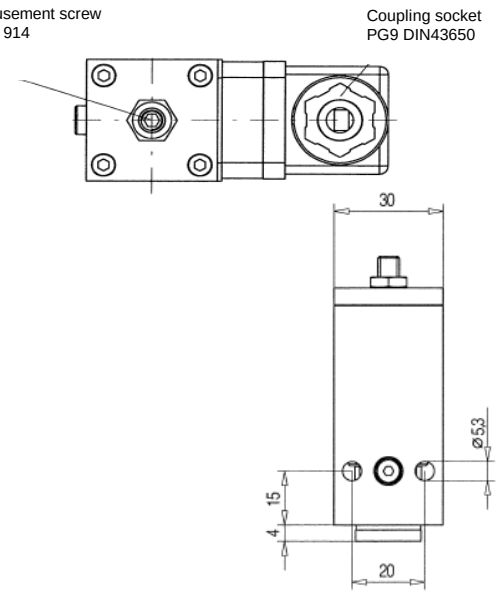
[1)] All specification for ohmic load. For voltages > 42V regulation for protective means have to be regarded!

Dimensions (in mm)



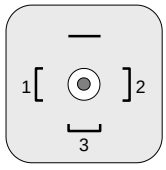
With flange mounting, remove screw DIN912, O-ring 5x2 included in parts supplied

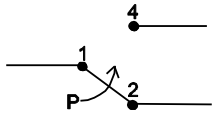
With G1/4 threaded connector, remove stopper



Electrical connection

SPDT





Subject of technical changes