

## 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 <sup>1)</sup> (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       |

<sup>1)</sup> The repeatability refers to 20°C.

Model: S4320

## Technical data

| Mechanical pressure switch in block type  |   |
|---|---|
| <b>Model</b>  | S4320   |
| <b>Execution</b>  | positive gauge pressure   |
| <b>Media</b>  | compressed air, neutral fluid, self-lubricating fluid   |
| <b>Process connection</b><br>standard<br>optional   | G1/4 internal and also flange mounting<br>others on request   |
| <b>Measuring principle</b>  | spring loaded diaphragm / <10 bar piston  |
| <b>Materials</b><br>Measuring element<br>standard<br>optional<br>Thread<br>Housing  | diaphragm variant > 10 bar steel piston<br><br>NBR, >10 bar PUR<br>EPDM; Viton; others on request<br>galvanized steel<br>galvanized steel |
| <b>Switching outputs</b><br>Number<br>Switching function<br>Switching element<br>standard<br>option<br>Adjustment<br>standard<br>option | 1<br>SPDT<br>microswitch<br>silver plated contacts<br>gold plated contacts<br><br>in site, with adjustment screw<br>factory adjusted      |
| <b>Hysteresis</b>   | 15..20%   |
| <b>Power rating<sup>1)</sup></b><br>DC up to 42 V<br>up to 110 V<br>AC up to 42 V / 250 V   | 5 A<br>0,5 A<br>5 A   |
| <b>Load cycles</b>  | max. 200/min  |
| <b>Temperature ranges</b>   | -25°C..+85°C  |
| <b>Electrical connection</b>  | L-plug acc. to DIN EN 175301-803  |
| <b>Protection type</b>  | IP65  |
| <b>Mounting position</b>  | any   |
| <b>Weight</b>   | ~0,2 kg   |

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

| Dimensions (in mm)  |  | Electrical connection |
|---|--|-----------------------|
|   |  | <b>SPDT</b>           |
| <p>With flange mounting, remove screw DIN912, O-ring 5x2 included in parts supplied</p> <p>With G1/4 threaded connector, remove stopper</p> |  |                       |

Subject of technical changes