

## Mechanical pressure switch S4250

Accurate changeover switch  
with adjustable hysteresis

## Preliminary data sheet



### Description

Mechanical pressure switch with a diaphragm or piston sensing element and one switched output as a changeover contact for converting pneumatic and hydraulic pressures into an electrical switching signal.

An adjusting screw allows setpoints to be easily adjusted, even in situ. The setpoint may optionally be factory preadjusted.

The switch is suitable for media such as compressed air, non-aggressive liquids or self-lubricating fluids. It is available as standard with a 1/4" thread galvanized steel process connection. Other threads and materials, including brass and stainless steel are optionally available. The switch can be installed in any desired mounting position.

The S4250 can be used to control and monitor pressure media in machine and plant engineering. The integrated microswitch allows switching performance of up to 4 A.

### Features

- Adjustable hysteresis
- Change-over contact
- Angle plug IP 65
- Many thread variants
- Diaphragm versions up to 30 bar
- Pistontype up to 350 bar

### Applications

- Mechanical engineering
- Plant construction
- Filter monitoring
- Hydraulic
- Pneumatic

Adjustment ranges (bar) <sup>5)</sup>	Overload limit (bar)	Repeat-ability (bar) <sup>1)</sup>	Measuring principle	Switching function
				SPDT
0,2..2	60 <sup>4)</sup>	± 0,04	Diaphragm	S4250B071001
0,5..8		± 0,16		S4250B144001
1..16		± 0,32		S4250B076001
10..30 <sup>1)</sup>	350 <sup>4)</sup>	± 0,6	Piston	S4250B133001
10..80		± 1,6		S4250B153001
10..120		± 2,4		S4250B866001
10..160		± 3,2		S4250B082001
20..200		± 4,0		S4250B083001
20..250		± 5,0		S4250B084001
30..320		± 6,4		S4250B085001

\* The article nos. relate to G 1/4" galvanized steel connection thread with angular plug acc. to DIN EN 175301-803.

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

<sup>3)</sup> Higher pressures on request

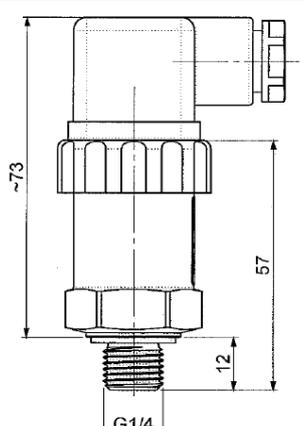
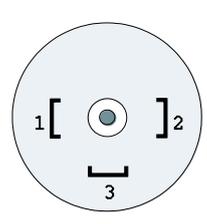
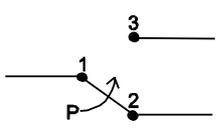
<sup>5)</sup> Other ranges on request

**Model: S4250**

## Technical data

<b>Mechanical pressure switch</b>	
<b>Model</b>	S4250
<b>Execution</b>	positive gauge pressure
<b>Media</b>	compressed air, neutral fluid, self-lubricating fluid
<b>Process connection</b> standard optional	G1/4 G1/8, M10x1, others on request
<b>Measuring principle</b>	spring loaded diaphragm 0,2-30 bar, spring loaded piston 10-350 bar
<b>Materials</b> Measuring element standard  Thread standard optional Housing standard optional	Diaphragm type  NBR  zinc plated steel brass, stainless steel, others on request  zinc plated steel, contact insert plastic brass, stainless steel; contact insert plastic
<b>Switching outputs</b> Number Switching function Switching element standard Adjustment standard option	1 SPDT microswitch silver plated contacts  in site, with adjustment screw factory adjusted
<b>Hysteresis</b>	Adjustable
<b>Power rating<sup>1)</sup></b> DC up to 28 V AC up to 125 V up to 250 V	2 A 4 A 4 A
<b>Load cycles</b>	max.100/min
<b>Temperature ranges</b>	-20°C..+80°C
<b>Electrical connection</b> Standard	L-plug acc. to DIN EN 175301-803
<b>Protection type</b>	IP65
<b>Mounting position</b>	Any
<b>Weight</b>	~ 0,1 kg

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

<b>Dimensions (in mm)</b>	<b>Electrical connection</b>
	<p style="text-align: center;"><b>SPDT</b></p> 
	

Subject to technical alternations