

## Mechanical pressure switch S4140

Low priced pressure switch with normally closed or normally open contact



### Description

Small mechanical pressure switch with a diaphragm sensing element and one switched output as a NO or NC contact for converting pneumatic and hydraulic pressures into an electrical switching signal.

The adjustment range for increasing pressures begins as low as 0.2 bar. The setpoint can be chosen even lower in the case of decreasing pressures. An adjusting screw allows setpoints to be easily adjusted, even in situ.

The switch is suitable for media such as compressed air, non-aggressive liquids or self-lubricating fluids. It is available as standard with 1/8" and 1/4" thread brass or galvanized steel process connection. Other connections are possible upon request. The switch can be installed in any desired mounting position.

The S4140 can be used to control and monitor pressure media in machine and plant engineering. Gold-plated contacts are also optionally available for low switching currents.

### Features

- Switching points from 0,2 bar
- Small size (44 mm)
- Low priced

### Applications

- Mechanical engineering
- Plant construction

Adjustment ranges (bar)	Overload limit (bar)	Repeat-ability <sup>1)</sup> (bar)	Hysteresis (%)	Measuring principle	Switching function	
					NC	NO
0,2..2	2	±0,2	~10	Diaphragm	S4140B071001	S4140B071101
0,5..10	10	±0,5			S4140B075001	S4140B075101
1..15	15	±0,5			S4140B157001	S4140B157101

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

Model: S4140

## Technical data

Mechanical pressure switch	
<b>Model</b>	S4140
<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; others on request
<b>Measuring principle</b>	spring loaded diaphragm
<b>Materials</b> Measuring element standard optional Thread standard optional Housing standard optional	NBR EPDM; FPM others on request brass; zinc plated steel stainless steel; others on request brass; contact insert plastic stainless steel; contact insert plastic
<b>Switching outputs</b> Number Switching function  Switching element standard option  Adjustment standard option	1 NC or NO  silver plated contacts gold plated contacts  in site, with adjustment screw factory adjusted
<b>Hysteresis</b>	~10%
<b>Power rating<sup>1)</sup></b> DC up to 42V AC up to 42V	2 A 2 A
<b>Load cycles</b>	max. 200/min
<b>Temperature ranges</b>	-25°C..+85°C
<b>Electrical connection</b>	flat connector 2 x 6,3 x 0,8
<b>Protection type</b>	IP00
<b>Mounting position</b>	any
<b>Weight</b>	0,06 kg

<sup>1)</sup>All specification for ohmic load.

Dimensions (in mm)	Electrical connection	
	NC	NO

Subject to technical alternations