

# 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 at 0.2 bar. The setpoint can be chosen even lower in the case of decreasing pressure. 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 1/4" thread galvanized steel process connection. Other connections and materials 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

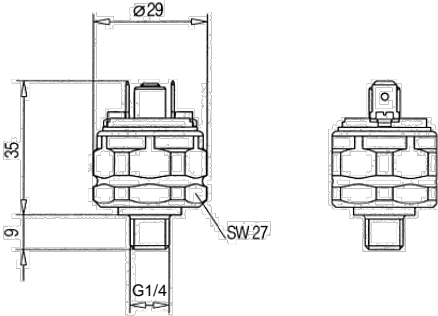
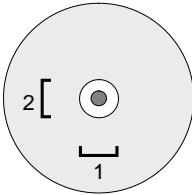
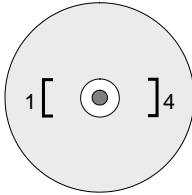
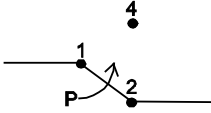
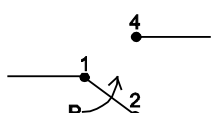
Adjustment ranges (bar)	Overload limit (bar)	Repeat-ability <sup>1)</sup> (bar)	Hysteresis (%)	Measuring principle	Switching function	
					NC	NO
0.2 ... 2	2	± 0.2	~10	Diaphragm	S4140B071001	S4140B071101
0.5 ... 10	10	± 0.5			S4140B075001	S4140B075101

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

Technical data

	Mechanical pressure switch
Model	S4140
Execution	positive gauge pressure
Media	compressed air, neutral fluid, self-lubricating fluid
Process connection	
standard	G1/4
optional	G1/8; others on request
Measuring principle	spring loaded diaphragm
Materials	
Measuring element	
standard	NBR
optional	EPDM; FPM others on request
Thread	
standard	zinc plated steel
optional	brass; stainless steel; others on request
Switching outputs	
Number	1
Switching function	NC or NO
Switching element	
standard	silver plated contacts
option	gold plated contacts
Adjustment	
standard	on-site, with adjustment screw
option	factory adjusted
Hysteresis	~ 10%
Power rating <sup>1)</sup>	
DC up to 42 V	2 A
AC up to 42 V	2 A
Load cycles	max. 200/min
Temperature ranges	-25 °C ... +85 °C
Electrical connection	flat connector 2 x 6.3 x 0.8 mm
Protection type	IP00
Mounting position	any
Weight	0.06 kg

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

Dimensions (in mm)	Electrical connection	
	NC	NO
		
		

Subject to technical alternations