

# **Mechanical pressure switch S4140**

Low priced pressure switch with normaly closed or normaly 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	Overload limit	Repeat- ability <sup>1)</sup>	Hysteresis (%)	Measuring principle	Switching function	
(bar)	(bar)	(bar)			NC	NO
0.2 2	2	± 0.2	~10	Diaphragm	S4140B071001	S4140B071101
0.5 10	10	± 0.5			S4140B075001	S4140B075101

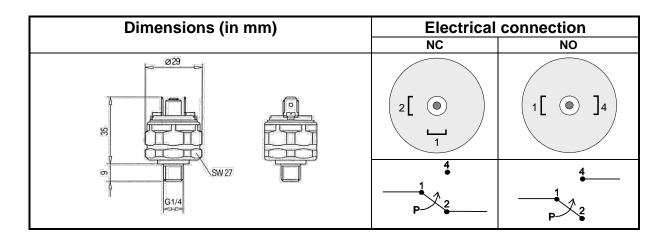
<sup>1)</sup> The repeatability refers to 20°C.

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## **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			
<b>.</b>				
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.



Subject to technical alternations