

Mechanical pressure switch S4140

Low priced pressure switch with 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 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	Overload limit	Repeat- ability ¹⁾	Hysteresis (%)	Measuring principle	Switching function	
(bar)	(bar)	(bar)			NC	NO
0,22	2	±0,2	~10	Diaphragm	S4140B071001	S4140B071101
0,510	10	±0,5			S4140B075001	S4140B075101
115	15	±0,5			S4140B157001	S4140B157101

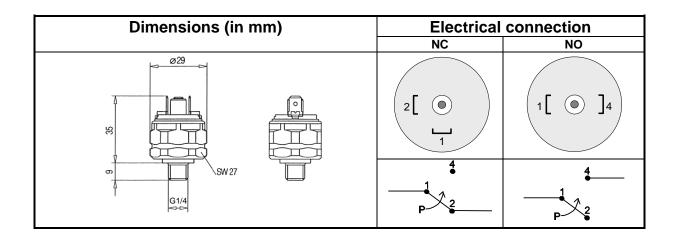
¹⁾ The repeatability refers to 20°C.

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

¹⁾All specification for ohmic load.



Subject to technical alternations