

Mechanical vacuum switch S4412

Diaphragm switch with changeover contact



Description

The new mechanical vacuum switch in model series S4412 is used in areas in which an electrical signal is required depending on specified vacuum values.

The diaphragm switch is suitable for air, neutral fluids or self-lubricating fluids.

An adjusting screw allows setpoints to be easily adjusted, even in situ. The hysteresis can also be set within the range of 0.1 to 0.3 bar using the second screw, or the switch can simply be ordered with a factory-set setpoint.

The switch is supplied in zinc plated steel with a G1/4" screw thread as standard. Many other types of threads and materials are optionally available. Versions for extended specifications can be produced on request. The high-quality design ensures that the switches have a long service life.

Features

- Change-over contact
- o Many thread variants
- Adjustable hysteresis
- Overload safety up to 20 bar

Applications

- Mechanical engineering
- Plant construction
- Low vacuum

Adjustme ranges	nt Overload limit (bar)	Repeatability (bar) ¹⁾	Max. hysteresis	Measurement principle	Switching function
(bar) ²⁾					Change over contact
-0.85+1	20	±0.02	0.10.3 bar	Diaphragm	S4412B114001

¹⁾ The repeatability refers to 20°C.

Model: S4412

The pressure difference between the setpoint and the reset point must be at least 0.2 bar.

Technical data

	Mechanical pressure switch		
Model	S4412		
Execution	negative over pressure		
Media	air; filtered 50µm, oiled or not oiled		
Process connection			
standard	G1/4		
optional	G1/8, M10x1, 1/4NPT, 1/8NPT		
Measuring principle	spring loaded diaphragm		
Materials			
Measuring element			
standard	NBR		
Thread			
standard	zinc plated steel		
optional	stainless steel		
Switching outputs			
Number	1		
Switching function	SPDT		
Switching element	microswitch		
Adjustment			
standard	in situ, with adjustment screw		
option	factory adjusted		
Hysteresis	0.10.3 bar (adjustable)		
Power rating ¹⁾			
DC to 28 V	max. 2A		
AC to 250 V	max. 4A		
Load cycles	max. 100/min		
Temperature ranges	-10°C+80°C		
Electrical connection	L-plug acc. to DIN EN 175301-803		
Protection type	IP65		
Mounting position	any		
Weight	~ 0.1 kg		

¹⁾ All specification for ohmic load.

