Mechanical vacuum pressure switch S4420

Low priced switch with change-over contact
In brass housing with high power rating

Description

Mechanical pressure switches with a diaphragm sensing element for converting pneumatic or hydraulic signals into an electrical switching signal.

The pressure switch is suitable for universal use in vacuum applications. The process connection is 1/8" as standard. The case and connection are made of brass. An adjusting screw allows setpoints to be easily adjusted in situ. The setpoint can optionally be factory preadjusted. The integrated microswitch allows switching performance of up to 5 A. As an alternative, gold-plated contacts are available for low switching currents.

The economical construction with flat connectors is designed specifically for use within equipment. A protective cap can be ordered as an accessory to raise the degree of protection to IP 54.

Features

- Change-over contact
- Electrical connection via flat connector 3x6,3x0,8
- Brass housing
- High power rating

Applications

- Vacuum pumps
- Vacuum lifting systems
- Vacuum conveyors

Adjustment ranges (bar)	Overload limit (bar)	Repeat-ability[1] (bar)	Hysteresis (%)	Measuring principle	Switching function
					SPDT
-0,8..-0,15	1	±0,1	15..25	Diaphragm	S4420B114001

[1] The repeatability refers to 20ºC.

We suggest the suitable protection cap: AZM90X101005.

Model: S4420

Technical data

	Mechanical pressure switch
Model	S4420
Execution	negative gauge pressure
Media	compressed air, neutral fluid, self-lubricating fluid
Process connection standard optional	 G1/8 others on request
Measuring principle	spring loaded diaphragm
Materials Measuring element standard optional Thread Housing	 NBR FPM; others on request brass brass; contact insert plastic
Switching outputs Number Switching function Switching element standard option Adjustment standard option	 1 change-over contact (SPDT) microswitch silver plated contacts gold plated contacts in site, with adjustment screw factory adjusted
Hysteresis	15..25%
Power rating[1] DC uo to 42 V up to 110 V AC up to 42 V / 250 V	 2 A 0,5 A 5 A
Load cycles	max. 200/min
Temperature ranges	-25°C..+85°C
Electrical connection	spade terminals3 x 6,3 x 0,8
Protection type	IP00, with protection cap IP 54
Mounting position	any
Weight	~ 0,12 kg

[1]All specification for ohmic load. For voltages > 42V regulation for protective means have to be regarded!

Dimensions (in mm)	Electrical connection
	Chang-over contact (SPDT)

Subject to technical alternations