

Mechanical vacuum switch S4440

Change-over contact



Description

The series S4440 mechanical vacuum switch is designed for applications where the requirement is for the highest accuracy and loadability. The setpoint adjustment remains stable even for several years.

The switches convert pneumatic signals into electrical signals. Depending on the type of connection, they can be used as a NO, NC or CO contact without any problems.

Fitted DIN connectors make installation a quick and easy task. The series S4440 vacuum switch from von tectsis is used primarily in rough vacuums (technical vacuums). Here a vacuum is understood to mean the pressure of a gas/fluid that is lower than the surrounding pressure.

Features

- Repeatability 2%
- Low hysteresis
- Simple switching point adjustment
- Various process connections

Applications

- Rough vacuum
- Vakuum pumps

Adjustment ranges (bar)	Overload limit (bar)	Repeat-ability ¹⁾ (bar)	Hysteresis (%)	Measuring principle	Switching function
					SPDT
-0,85..+1	20	±0,02	11..16	Diaphragm	S4440B114001

¹⁾ The repeatability refers to 20°C

²⁾ The pressure difference between the switching and release positions must be at least 0.2 bar

Model: S4440

Technical data

	Mechanical pressure switch
Model	S4440
Execution	Negative gauge pressure
Media	Compressed air; 50µm filtered, oiled or non-oiled
Process connection standard optional	G1/4 internal; 8mm deep flange
Measuring principle	Spring load diaphragm
Materials Measuring element Thread Housing	perbuan die-cast zinc die-cast zinc; adjusting head: Aluminium
Switching outputs Number Switching function Switching element Adjustment standard optional	1 SPDT microswitch in site, with adjustment screw factory adjusted
Hysteresis	11..16%
Power rating¹⁾ DC up to 28 V AC up to 250 V	max. 4A max. 3A
Load cycles	max. 200/min
Temperature ranges	-10°C..+80°C
Electrical connection standard optional	L-plug DIN 43650 Form A L-plug DIN 43650 Form A with integrated LEDs connector M12x1
Protection type	IP65
Belastbarkeit Shock (mechanical) Vibration (under resonance)	30g 10g
CE mark	Conforms to EU directive 73/23/EEC
Mounting position	any
Weight	~0,3 kg

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

Dimensions (in mm)	Electrical connection	
	DIN 43650	M12x1

Subject to technical alternations