

# 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 <sup>1)</sup> (bar)	Hysteresis (%)	Measuring principle	Switching function
					SPDT
-0,85..+1	20	±0,02	11..16	Diaphragm	S4440B114001

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

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

**Model: S4440**

## Technical data

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

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

<b>Dimensions (in mm)</b>	<b>Electrical connection</b>	
	<b>DIN 43650</b>	<b>M12x1</b>

Subject to technical alternations