

# Mechanical vacuum switch S4440

**Changeover 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 tecsis 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	Overload limit	Repeat- ability <sup>1)</sup>	Hysteresis (%)	Measuring principle	Switching function
(bar)	(bar)	(bar)			SPDT
-0,85+1	20	±0,02	1116	Diaphgram	S4440B114001

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

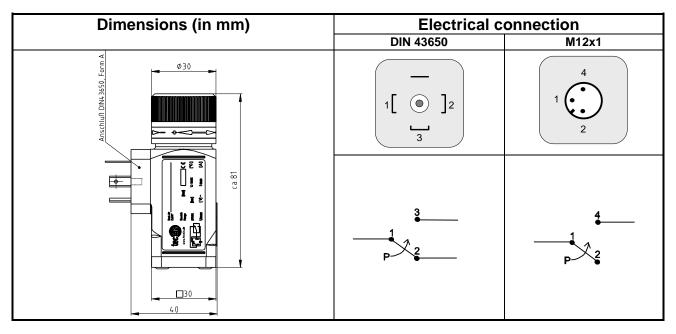
<sup>2)</sup> The pressure difference between the switching and release positions must be at least 0.2 bar

Sales National Fax: +49 69 5806-170 Sales International Fax: +49 69 5806-177 DE 795

## **Technical data**

	Mechanical pressure switch		
Model	S4440		
Execution	Negative gauge pressure		
Media	Compressed air; 50µm filtered, oiled or non-oiled		
Process connection			
standard	G1/4 internal; 8mm deep		
optional	flange		
Measuring principle	Spring load diaphragm		
Materials			
Measuring element	perbuan		
Thread	die-cast zinc		
Housing	die-cast zinc; adjusting head: Aluminium		
Switching outputs			
Number	1		
Switching function	SPDT		
Switching element	microswitch		
Adjustment			
standard	in site, with adjustment screw		
optional	factory adjusted		
Hysteresis	1116%		
Power rating <sup>1)</sup>			
DC up to 28 V	max. 4A		
AC up to 250 V	max. 3A		
Load cycles	max. 200/min		
Temperature ranges	-10°C+80°C		
Electrical connection			
standard	L-plug DIN 43650 Form A		
optional	L-plug DIN 43650 Form A with integrated LEDs		
-	connector M12x1		
Protection type	IP65		
Belastbarkeit			
Shock (mechanical)	30g		
Vibration (under	10g		
resonance)			
,			
CE mark	Conforms to EU directive 73/23/EEC		
Mounting position	any		
Weight	~0,3 kg		
	1 = 50, $100$ $1 = 50$ $100$ $1 = 100$ $100$ $1 = 100$ $100$ $1 = 100$ $100$ $1 = 100$ $100$		

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



Subject to technical alternations