

# Vacuum and Pressure Switches VSi

Measuring range from -1 bar to 10 bar



## Suitability for industry specific applications



Vacuum and Pressure Switches VSi

### Application

- Electronic vacuum and pressure switch with IO-Link interface for measuring and monitoring negative and positive pressure in automation and handling systems
- Input and output of parameters via the controller
- Sensor unit can be positioned independently from the control and indicator display in the system
- Compact switch for installation directly on the suction cup, particularly in decentralized vacuum systems
- Setting and programming of the vacuum and pressure switch even at points in the process that are difficult to work on manually
- Output of device data such as type or operating instructions via smartphone, even with variants without display

### Design

- Switch with compact units in two designs: without display or with integrated display
- Robust fiberglass reinforced plastic housing
- Installation via stainless steel vacuum / compressed air connection and with optional additional mounting bracket
- Connectors 4-pin M8 or 4-pin M12
- Mode and switching point display using LEDs that are visible from all sides

### Product highlights

- Electronic vacuum and pressure switch with optional display for exact measurements and digital signal output
- NFC interface allows parameterization and reading of service and maintenance data via smartphone
- Input and output of relevant process data via the controller thanks to IO-Link interface

## Designation code Vacuum and Pressure Switches VSi

VSi	-	V	-	D	-	-	-	M8-4
1		2		3		4		5

#### 1 – Abbreviated designation

Code	Type
VSi	VSi (IO-Link)

#### 2 – Measuring range

Code	Measuring range in bar
V	-1 to 0
VP8	-1 to 8
P10	0 to 10

#### 3 – Display

Code	Type
D	With integrated display

#### 4 – Principle of function

Code	Type
SA	Sensor analog

#### 5 – Connection electrical

Code	Connection
M8-4	Male connect M8, 4-pole
M12-4	Male connect M8, 4-pole

Vacuum and pressure switch VSi is delivered as a ready-to-connect product (without connection cable). The product consists of:














- Vacuum and pressure switch of type VSi - available as vacuum version, pressure version or combined version without display or with integrated display

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Available accessories: connection cable, mounting bracket

## Ordering data Vacuum and Pressure Switches VSi

Type	Part no.
VSi V M8-4	10.06.02.00567 
VSi V D M8-4	10.06.02.00577 
VSi V SA M8-4	10.06.02.00800 
VSi VP8 M8-4	10.06.02.00569 
VSi VP8 D M8-4	10.06.02.00579 
VSi P10 M8-4	10.06.02.00568 
VSi P10 D M8-4	10.06.02.00578 
VSi V M12-4	10.06.02.00570 
VSi V D M12-4	10.06.02.00580 
VSi VP8 M12-4	10.06.02.00572 
VSi VP8 D M12-4	10.06.02.00582 
VSi P10 M12-4	10.06.02.00571 
VSi P10 D M12-4	10.06.02.00581 

## Ordering data Accessories Vacuum and Pressure Switches VSi

Type		Part no.
Connection cable, M8 4-pole, 5 m, PUR, straight	ASK B-M8-4 5000 K-4P	10.06.02.00031
Connection cable, M12 4-pole, 5 m, PUR, straight	ASK B-M12-4 5000 K-4P	21.04.05.00263
Mounting bracket	BEF-WIN 21x22x60.5 1.5 VS	10.06.02.00061
Mounting bracket	BEF-WIN 21x22x61.5 1.5 VSi-D-M12	10.06.02.00663
Mounting bracket	BEF-WIN 21x22x61.5 1.5 VSi-D-M8	10.06.02.00664
Mounting bracket	BEF-WIN 21x22x39 1.5 VSi-M12	10.06.02.00665
Mounting bracket	BEF-WIN 21x22x39 1.5 VSi-M8	10.06.02.00666

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## Technical data Vacuum and Pressure Switches VSi

Type	Measured medium	Measuring range [bar]	Max. overpressure safety [bar]	Repeatability	Switching capacity max. [mA]	Hysteresis	Inputs / outputs
VSi V M8-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	8	± 3% of full-scale value	100	Adjustable	2 digital
VSi V D M8-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	8	± 3% of full-scale value	100	Adjustable	2 digital
VSi V SA M8-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	8	± 3% of full-scale value	100	Adjustable	1 digital / 1 analog 1...5 V
VSi VP8 M8-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 8,0 bar	12	± 3% of full-scale value	100	Adjustable	2 digital
VSi VP8 D M8-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 8,0 bar	12	± 3% of full-scale value	100	Adjustable	2 digital
VSi P10 M8-4	Non-aggressive gases; dry, oil-free air	0,0 ... 10,0 bar	15	± 3% of full-scale value	100	Adjustable	2 digital
VSi P10 D M8-4	Non-aggressive gases; dry, oil-free air	0,0 ... 10,0 bar	15	± 3% of full-scale value	100	Adjustable	2 digital
VSi V M12-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	8	± 3% of full-scale value	100	Adjustable	2 digital
VSi V D M12-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	8	± 3% of full-scale value	100	Adjustable	2 digital
VSi VP8 M12-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 8,0 bar	12	± 3% of full-scale value	100	Adjustable	2 digital
VSi VP8 D M12-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 8,0 bar	12	± 3% of full-scale value	100	Adjustable	2 digital
VSi P10 M12-4	Non-aggressive gases; dry, oil-free air	0,0 ... 10,0 bar	15	± 3% of full-scale value	100	Adjustable	2 digital
VSi P10 D M12-4	Non-aggressive gases; dry, oil-free air	0,0 ... 10,0 bar	15	± 3% of full-scale value	100	Adjustable	2 digital

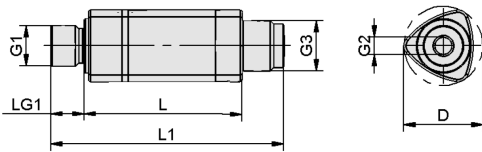
Type	Indication	Electrical connection	Connection	Voltage	Current consumption [mA]	Protection type IP	Temperature influence	Operating temperature [°C]	Weight [g]
VSi V M8-4	LED	Male connect M8, 4 pole	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	12
VSi V D M8-4	2xLED	Male connect M8, 4 pole	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	16
VSi V SA M8-4	LED	Male connect M8, 4 pole	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	12
VSi VP8 M8-4	LED	Male connect M8, 4 pole	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	12
VSi VP8 D M8-4	2xLED	Male connect M8, 4 pole	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	16
VSi P10 M8-4	LED	Male connect M8, 4 pole	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	12
VSi P10 D M8-4	2xLED	Male connect M8, 4 pole	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	16
VSi V M12-4	LED	Male connect M12, 4 pol	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	12
VSi V D M12-4	2xLED	Male connect M12, 4 pol	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	16
VSi VP8 M12-4	LED	Male connect M12, 4 pol	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	12
VSi VP8 D M12-4	2xLED	Male connect M12, 4 pol	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	16
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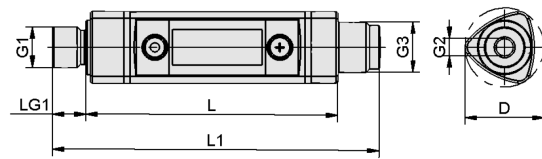
Measuring range from -1 bar to 10 bar

Type	Indication	Electrical connection	Connection	Voltage	Current consumption [mA]	Protection type IP	Temperature influence	Operating temperature [°C]	Weight [g]
VSi P10 D M12-4	2xLED	Male connect M12, 4 pol	G1/8"-M + M5-F	10-30V DC	35	IP 65	± 3% of full-scale value	0 ... 50 °C	16

## Design data Vacuum and Pressure Switches VSi



VSi



VSi-D

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Type	D [mm]	G1	G2		L [mm]	L1 [mm]	LG1 [mm]
VSi V M8-4	20	G1/8"-M	M5-F	M8x1-M	38	55	8
VSi V D M8-4	20	G1/8"-M	M5-F	M8x1-M	61	78	8
VSi V SA M8-4	20	G1/8"-M	M5-F	M8x1-M	38	55	8
VSi VP8 M8-4	20	G1/8"-M	M5-F	M8x1-M	38	55	8
VSi VP8 D M8-4	20	G1/8"-M	M5-F	M8x1-M	61	78	8
VSi P10 M8-4	20	G1/8"-M	M5-F	M8x1-M	38	55	8
VSi P10 D M8-4	20	G1/8"-M	M5-F	M8x1-M	61	78	8
VSi V M12-4	20	G1/8"-M	M5-F	M12x1-M	38	56	8
VSi V D M12-4	20	G1/8"-M	M5-F	M12x1-M	61	79	8
VSi VP8 M12-4	20	G1/8"-M	M5-F	M12x1-M	38	56	8
VSi VP8 D M12-4	20	G1/8"-M	M5-F	M12x1-M	61	79	8
VSi P10 M12-4	20	G1/8"-M	M5-F	M12x1-M	38	56	8
VSi P10 D M12-4	20	G1/8"-M	M5-F	M12x1-M	61	79	8

### Multimedia product presentation

Medium	Link
Product video	<a href="https://vimeo.com/156278938">https://vimeo.com/156278938</a> <a href="https://vimeo.com/156281107">https://vimeo.com/156281107</a> <a href="https://vimeo.com/156692848">https://vimeo.com/156692848</a> <a href="https://vimeo.com/258755930">https://vimeo.com/258755930</a> <a href="https://vimeo.com/267546700">https://vimeo.com/267546700</a>