

Vacuum and Pressure Switches VS-V/P-AH/AV-T

Measuring range from -1 bar to 10 bar



Suitability for Industry Specific Applications



Applications

- Vacuum and pressure switches for electronic process monitoring, optimization of cycle times and energy saving devices
- Can be used as a measuring and switching element
- Suitable vacuum switch for use in very dynamic handling systems

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Design

- Plastic housing in slim design
- Adapter plate for quick mounting, either vertically or horizontally
- Teach button integrated into the cover
- Transparent cover for LED display
- Power and control connections via 4-pin M8 connector
- Optionally with vacuum / pressure connection M5 or push-in tube 6 mm

Product Highlights

- Electronic vacuum and pressure switch enables precise switching and repetitions
- Two digital switching outputs save further switching elements
- Easy-to-read, two-color LED status display
- Can be mounted vertically or horizontally for space-saving installation
- Switching points in the process adjustable with teach button

Designation Code Vacuum and Pressure Switches VS-V/P-AH/AV-T

VSL	-	15-9	-	PVC	-	G
1		2		3		4

1 - Abbreviated designation

Code	Version
VSL	VSL

2 - Diameter

Code	Diameter in mm
4-2...87-75	ø 4-2 to 87-75 (outside-inside)

3 - Material

Code	Material
PA	Polyamide
PE	Polyethylene
PU	Polyurethane
PVC	Polyvinyl chloride

4 - Product addition

Code	Type
DS	Wire spiral
G	Textile layer
PS	PVC spiral

Vacuum and pressure switch VS-V/P-AH/AV-T is delivered as a ready-to-connect product (without connection cable).

Available accessories: connection cable, connection adapter

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Ordering Data Vacuum and Pressure Switches VS-V/P-AH/AV-T

Type	Part no.
VS-V-AH-T-PNP M8-4	10.06.02.00295
VS-V-AH-T-PNP M8-4 S	10.06.02.00294
VS-V-AV-T-PNP M8-4	10.06.02.00293
VS-V-AV-T-PNP M8-4 S	10.06.02.00292
VS-P6-AH-T-PNP M8-4	10.06.02.00383
VS-P10-AH-T-PNP M8-4 S	10.06.02.00382
VS-P6-AV-T-PNP M8-4	10.06.02.00385
VS-P6-AV-T-PNP M8-4 S	10.06.02.00384

Ordering Data Accessories Vacuum and Pressure Switches VS-V/P-AH/AV-T

Type	Part no.
Connection cable, M8 4-pole, 5 m, PUR, 90°	ASK WB-M8-4 5000 K-4P 10.06.02.00032
Connection cable, M8 4-pole, 5 m, PUR, straight	ASK B-M8-4 5000 K-4P 10.06.02.00031
Connection adapter screw thread M5-AG	ADAP-VS M5-AG-1.3x16 10.06.02.00299
Connection adapter plug-in tube STR6	ADAP-VS 6-1.3x16 10.06.02.00300

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Technical Data Vacuum and Pressure Switches VS-V/P-AH/AV-T

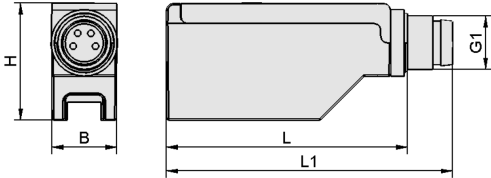
Type	Measured medium	Measuring range [bar]	Max. overpressure safety [bar]	Repeatability	Hysteresis	Inputs/outputs
VS-V-AH-T-PNP M8-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	5	± 1% of full-scale value	Adjustable	2 digital
VS-V-AH-T-PNP M8-4 S	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	5	± 1% of full-scale value	Fixed: approx. 20 mbar	2 digital
VS-V-AV-T-PNP M8-4	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	5	± 1% of full-scale value	Adjustable	2 digital
VS-V-AV-T-PNP M8-4 S	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	5	± 1% of full-scale value	Fixed: approx. 20 mbar	2 digital
VS-P6-AH-T-PNP M8-4	Non-aggressive gases; dry, oil-free air	0,0 ... 6,0 bar	15	± 1% of full-scale value	Adjustable	2 digital
VS-P10-AH-T-PNP M8-4 S	Non-aggressive gases; dry, oil-free air	0,0 ... 6,0 bar	15	± 1% of full-scale value	Fixed: 2% of full-scale value	2 digital
VS-P6-AV-T-PNP M8-4	Non-aggressive gases; dry, oil-free air	0,0 ... 6,0 bar	15	± 1% of full-scale value	Adjustable	2 digital
VS-P6-AV-T-PNP M8-4 S	Non-aggressive gases; dry, oil-free air	0,0 ... 6,0 bar	15	± 1% of full-scale value	Fixed: 2% of full-scale value	2 digital

Type	Switching capacity max. [mA]	Indication	Electrical connection	Voltage	Current consumption [mA]	Protection type IP	Operating temperature [°C]	Temperature influence	Weight [g]
VS-V-AH-T-PNP M8-4	200	LED	Male connect M8, 4 pole	10-30V DC	20	IP 40	0 ... 60 °C	± 3% of full-scale value	6
VS-V-AH-T-PNP M8-4 S	200	LED	Male connect M8, 4 pole	10-30V DC	20	IP 40	0 ... 60 °C	± 3% of full-scale value	6
VS-V-AV-T-PNP M8-4	200	LED	Male connect M8, 4 pole	10-30V DC	20	IP 40	0 ... 60 °C	± 3% of full-scale value	6
VS-V-AV-T-PNP M8-4 S	200	LED	Male connect M8, 4 pole	10-30V DC	20	IP 40	0 ... 60 °C	± 3% of full-scale value	6
VS-P6-AH-T-PNP M8-4	200	2xLED	Male connect M8, 4 pole	10-30V DC	-	IP 40	0 ... 60 °C	± 3% of full-scale value	6
VS-P10-AH-T-PNP M8-4 S	200	2xLED	Male connect M8, 4 pole	10-30V DC	-	IP 40	0 ... 60 °C	± 3% of full-scale value	6
VS-P6-AV-T-PNP M8-4	200	2xLED	Male connect M8, 4 pole	10-30V DC	-	IP 40	0 ... 60 °C	± 3% of full-scale value	6
VS-P6-AV-T-PNP M8-4 S	200	2xLED	Male connect M8, 4 pole	10-30V DC	-	IP 40	0 ... 60 °C	± 3% of full-scale value	6

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Design Data Vacuum and Pressure Switches VS-V/P-AH/AV-T



VS-V, VS-P10

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Type	B [mm]	G1	H [mm]	L [mm]	L1 [mm]
VS-V-AH-T-PNP M8-4	10	M8-M	17.5	36.2	43.0
VS-V-AH-T-PNP M8-4 S	10	M8-M	17.5	36.2	43.0
VS-V-AV-T-PNP M8-4	10	M8-M	16.4	41.2	48.0
VS-V-AV-T-PNP M8-4 S	10	M8-M	16.4	41.2	48.0
VS-P6-AH-T-PNP M8-4	10	M8-M	17.5	36.2	43.0
VS-P10-AH-T-PNP M8-4 S	10	M8-M	17.5	36.2	43.0
VS-P6-AV-T-PNP M8-4	10	M8-M	16.4	41.2	48.0
VS-P6-AV-T-PNP M8-4 S	10	M8-M	16.4	41.2	48.0