

Vacuum switches

Vacuum switch VS-V-A-PNP-S



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Our highlights...

- Electronic vacuum switch
- Analogue and digital outputs
- Switching point adjustable

Your advantages...

- > Electronically precise measurement and switching
- > Adjustable vacuum limit value and continuous vacuum monitoring
- > Easily adapted to meet customer requirements

Applications

- Universal electronic vacuum switch for safety monitoring, optimization of cycle times and regulation circuits
- Small size and low weight permit use directly on the suction pad

Construction

- Electronic vacuum switch in robust polyamide housing
- Vacuum connection via aluminum flange; additional M5 female thread
- Switching point adjustable with a screw; hysteresis fixed
- Supply voltage and signal output via 4-pin M8 screw connector or 4-pole cable
- Integrated LED for indication of the switching state



Suitability for branch-specific applications

Designation code Vacuum switch VS-V-A-PNP-S

Short designation	Measuring range	Connections	Switching function	Electrical connections	Additional function
Example: VS	V	A	PNP	M8-4	S
VS	V...-1 to 0 bar	A...flange connection	PNP...switches to +	K...with cable M8-4...male connector M8, 4-pin	S...with fixed hysteresis

Ordering data Vacuum switch VS-V-A-PNP-S

Type	Article No.
VS-V-A-PNP-K-S	10.06.02.00071
VS-V-A-PNP-M8-4-S	10.06.02.00070

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Vacuum switch VS-V-A-PNP-S



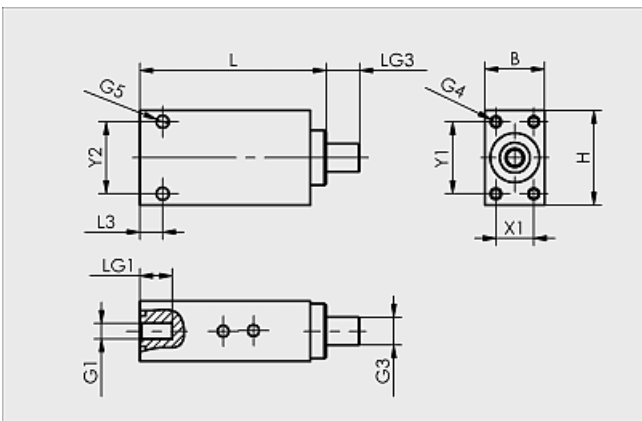
Ordering data accessories Vacuum switch VS-V-A-PNP-S

Connection cable 4-pole Material PUR, 5 m, straight 10.06.02.00031	Material PUR, 5 m, 90° 10.06.02.00032
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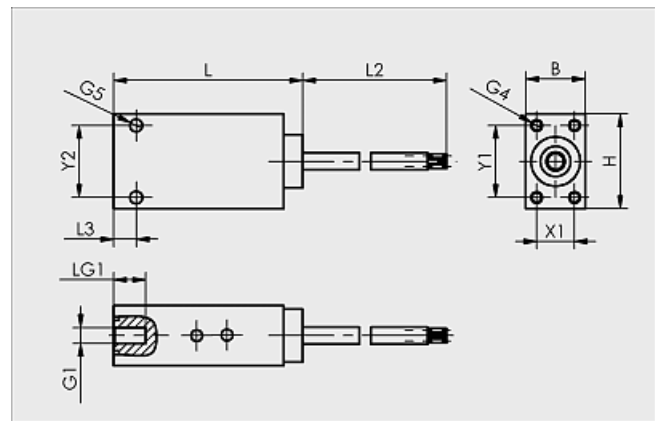
Technical data Vacuum switch VS-V-A-PNP-S

Type	VS-V-A-PNP-K-S	VS-V-A-PNP-M8-4-S
Measured medium	Non-aggressive gases; dry, oil-free air	Non-aggressive gases; dry, oil-free air
Measuring range	-1...0 bar	-1...0 bar
Max. overpressure resistance [bar]	5	5
Repeatability	5 mbar	5 mbar
Hysteresis	Min. 5 mbar (at -300 mbar), max. 12 mbar (at -900 mbar)	Min. 5 mbar (at -300 mbar), max. 12 mbar (at -900 mbar)
Output signal	1 anal./1 dig 1...5V	1 anal./1 dig 1...5V
Switching capacity [mA]	125	125
Indication	LED	LED
Electrical connection	Cable	Male connect M8, 4 pol
Measured medium connection	Flange with thread M5-F	Flange with thread M5-F
Voltage	12-24V DC	12-24V DC
Current consumption [mA]	30	30
Protection IP	IP 40	IP 40
Temperature influence	1 mbar/°C	1 mbar/°C
Operating temperature [°C]	-20...70 °C	-20...70 °C
Weight [g]	25	25

Design data Vacuum switch VS-V-A-PNP-S



VS-V-A-PNP-M8-4-S



VS-V-A-PNP-K-S

Type	Dimensions in mm													
	B	G1	G3	G4	G5	H	L	L2	L3	LG1	LG3	X1	Y1	Y2
VS-V-A-PNP-K-S	15,8	M5-F	-	M3-F	-	25	50	3000	6	5	-	10	19	19
VS-V-A-PNP-M8-4-S	15,8	M5-F	M8x1-M	M3-F	-	25	50	-	6	5	9	10	19	19