

Vacuum Switches VS-V-PM/EM-ST

Measuring range from -1 bar to 0 bar



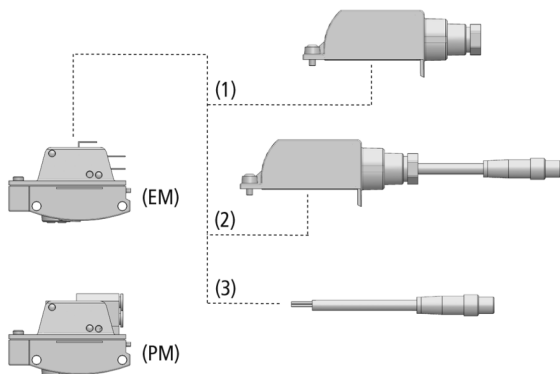
Suitability for industry specific applications



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Application

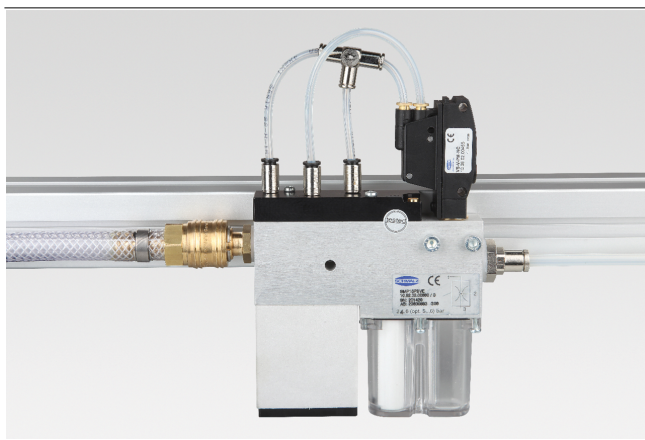
- Mechanical vacuum switch for process monitoring
- Optimization of cycle times or regulation circuits
- Application in processes where an electric or pneumatic signal related to a defined vacuum value is required
- Can be used as a measuring and switching element



Design

- Vacuum switch in electro-mechanical (EM) and pneumatic (PM) version
- VS-V-EM-ST with one digital switching output in NO/NC version
- VS-V-PM with pneumatic output in NO or alternatively NC version
- Robust and hard-wearing plastic housing
- Optional for EM Version: cover (1) for IP-protection and strain relief of the connection cable or cover (2) for IP-protection and mounted M8 4-pin plug
- 2 m cable (3) with M8 plug, 4-pin (optional for EM version)

System design Vacuum Switches VS-V-PM/EM-ST



Mounting example vacuum switch VS-V-PM

Product highlights

- Precisely operating switch in robust plastic housing
- Electromechanical design allows switching of DC and AC voltage
- Pneumatic version requires no electric connectors
- Switching point adjustable according to customer requirements

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Designation code Vacuum Switches VS-V-PM/EM-ST

VS	-	V	-	EM	-	ST
1		2		3		4

1 – Abbreviated designation

Code	Version
VS	VS

2 – Measuring range

Code	Measuring range in bar
V	-1 to 0

3 – Variant

Code	Type
EM	Electromechanical
PM	Pneumatical

4 – Connection electrical

Code	Connection
NC	Normally closed
NO	Normally open
ST	Contact of flat-pin plug (for EM version)

Vacuum switch VS-V-PM/EM-ST is delivered as a ready-to-connect product (without connection cable).

Available accessories: cover, connection cable

Ordering data Vacuum Switches VS-V-PM/EM-ST

Type	Part no.
VS-V-EM-ST	10.06.02.00457
VS-V-PM-NC	10.06.02.00455
VS-V-PM-NO	10.06.02.00456

Ordering data Accessories Vacuum Switches VS-V-PM/EM-ST

Type	Artikelnummer Cover ABDK-M8-4	Artikelnummer Cover ABDK-ST	Artikelnummer Connection cable M8-4
VS-V-EM-ST	10.06.02.00454	10.06.02.00453	10.06.02.00460

Technical data Vacuum Switches VS-V-PM/EM-ST

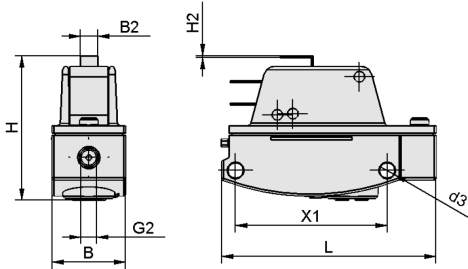
Type	Measured medium	Measuring range [bar]	Max. overpressure safety [bar]	Repeatability	Hysteresis	Switching capacity [A]	Switching frequency [Hz]
VS-V-EM-ST	Non-aggressive gases; dry, oil-free air	-1,00 ... 0,00 bar	6	± 3% of full-scale value	Fixed: 60...80 mbar	10	1
VS-V-PM-NC	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	6	± 3% of full-scale value	Fixed: approx. 40 mbar	-	-
VS-V-PM-NO	Non-aggressive gases; dry, oil-free air	-1,0 ... 0,0 bar	6	± 3% of full-scale value	Fixed: approx. 10 mbar	-	-

Type	Electrical connection	Control pressure range [bar]	Voltage	Flow rate max. [l/min]	Protection type IP	Operating temperature [°C]	Weight [g]
VS-V-EM-ST	Plug-in connection	-	max. 30 V DC/ 250 V AC	-	IP 65 (with cover)	0 ... 60 °C	33
VS-V-PM-NC	-	1.5 ... 8.0	-	100	-	0 ... 50 °C	33
VS-V-PM-NO	-	1.5 ... 8.0	-	100	-	0 ... 50 °C	33

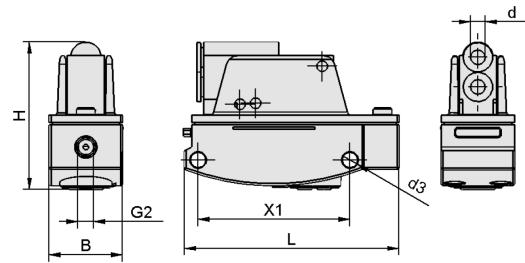
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Design data Vacuum Switches VS-V-PM/EM-ST



VS-V-EM-ST



VS-V-PM

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Type	B [mm]	B2 [mm]	d [mm]	d3 [mm]	G2	H [mm]	H2 [mm]	L [mm]	X1 [mm]
VS-V-EM-ST	19.8	4.8	-	4.2	M5-F	36.1	0.5	58	41
VS-V-PM-NC	19.8	-	4	4.2	M5-F	40.0	-	58	41
VS-V-PM-NO	19.8	-	4	4.2	M5-F	40.0	-	58	41