Electronic Vacuum Switches

Ultra-miniature, precision control

VSM(N or P) Series



Vaccon's miniature electronic vacuum switches provide a switched output for part present detection and can be easily mounted to Vaccon's Mini, Mid and MP Series pumps.

Ideal Applications:

- Part present detection
- End-of-Arm Tooling/Robotic assembly
- Material handling
- Pick and place
- Manifold mount

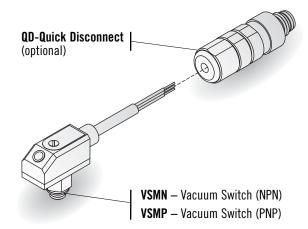
Features/Benefits

- Compact placed at point of use for accurate reading and quick response time
- Lightweight ideal for End-of-Arm Tooling, robotic end effectors
- Precision Control offers field-adjustable set-point for the full vacuum range
- Reliable LED for visual confirmation easy set-up
- Swivel fitting operates in any position
- Mountable to both Vaccon or any non-Vaccon M5 vacuum port
- Low power consumption
- RoHS compliant and meets EMC standards

Switch Options:

- Choice of output NPN, PNP
- Electrical Quick Disconnects

VSM(N or P) Switch Configurations and Options:



How to Specify:

Part Number	Switch
VSMN	Switch — NPN
VSMP	Switch - PNP

VSMN-QD Switch w/Quick Disconnect VSMP-QD Switch w/Quick Disconnect

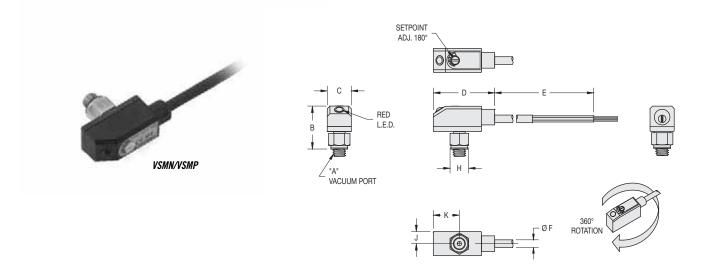


On-line Configurator and CAD Drawings @ www.vaccon.com

New powerful design tool saves you time by configuring the pump you need on-line. When complete, simply download the CAD drawing in any one of 13 different CAD formats and insert it right into your design.

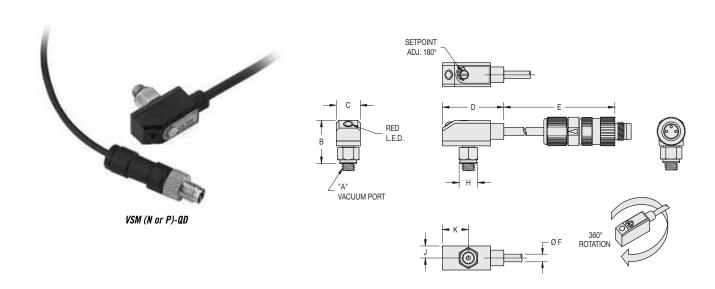
Get the pump you need, in the format you like!

Standard Switch: VSM (N or P)



Model #	Dimensions										Waight
Mouel #		A	В	C	D	E	F	Н	J	K	Weight
VSM (N, P)	in.	M5	0.71	0.39	1.01	57.80	0.13	0.30	0.20	0.43	1.0 oz
	mm	M5	18.0	9.9	25.7	1468.1	3.3	7.6	5.1	10.9	28 g

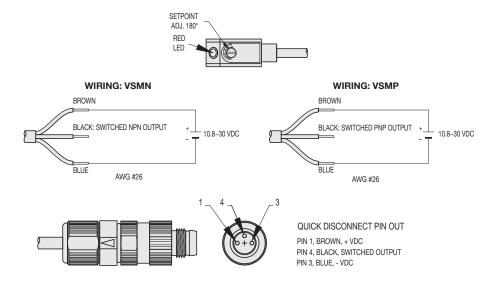
Switch with Quick Disconnect: VSM (N or P)-QD



Model #	Dimensions							Woight			
Model #		A	В	C	D	E	F	Н	J	K	Weight
VSM (N, P)-QD	in.	M5	0.71	0.39	1.01	57.80	0.13	0.30	0.20	0.43	1.6 oz
VSIVI (N, P)-UD	mm	M5	18.0	9.9	25.7	1468.1	3.3	7.6	5.1	10.9	45 g



Wiring Schematic for VSM (N or P)



VSM (N or P) Electronic Vacuum Switch Specifications:

	VSMP						
Rated Vacuum Range:	0" to 30" Hg [-0 to -1015 mbar]						
Burst Pressure:	29 PSI [2 bar]						
Media:	Non-Corrosive, Dry Gases						
Supply Voltage:	10.8 to 30 VDC						
Current Consumption:	20 mA Max.						
Sensing/Switching Material:	Single Crystal Silicon						
Output:	Switched - NPN Switched - PNP						
Electrical Connection:	3 Wire - 26 AWG - 5' (1.5m), Optional 3 pin, M8 Quick Disconnect						
Hysteresis:	2% Full Scale Max						
Repeatability:	+/- 0.3% Full Scale						
Response Time:	1 ms Max.						
Circuit Protection:	NONE						
Max. Switch Voltage Load:	30 VDC						
Max. Switched Current Load:	80mA						
Linearity:	+/- 0.5% Full Scale						
Thermal Error:	+/- 2% Full Scale/121°F (50°C)						
Thermal Compensation:	32°F to 121°F (0°C to 50°C)						
Display:	Single Red LED						
Switch Indication:	Red LED ON (Switched Output ON)						
IP Protection:	IP00						
Operating Temperature:	15°F to 140°F (-10°C to 60°C)						
Operating Humidity:	35 to 85% RH (No Condensation)						
Construction:	Glass filed ABS/Aluminum/Buna						
Fitting/Connection:	M5x.8 - 360° swivel male fitting						
Weight:	1 oz (28.3g)						
Safety and Environmental Compliance:	CE, RoHS						

