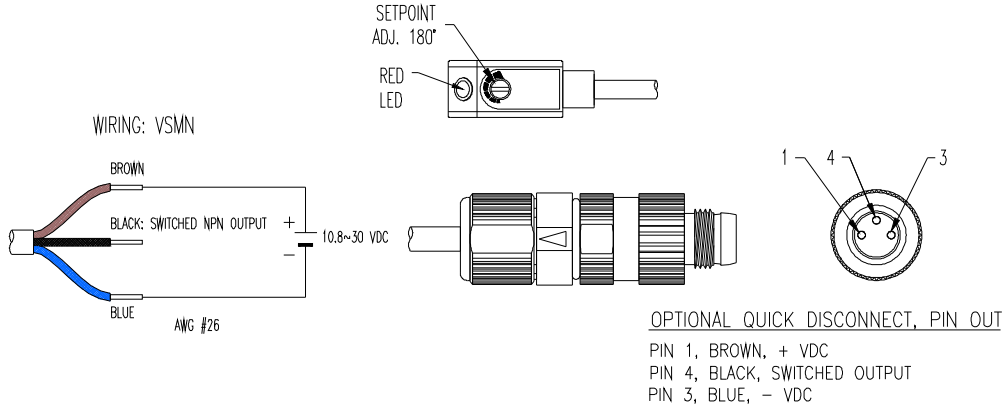


Wiring Diagram and Specifications for Vaccon VSMN Miniature Vacuum Switch

The Vaccon VSMN Electronic Vacuum Switch is designed for use in low voltage, ground side switched circuits.



NOTE: Please use a fine tipped screwdriver and light touch when adjusting set point. Forcing the adjustment screw past its limits (180° max rotation) will damage the switch and void its warranty.

	Miniature Vacuum Switches
Specifications	VSMN
Rated Vacuum Range	0" to 30" Hg (0 mbar 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
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. Switched Voltage Load	30 VDC
Max. Switched Current Load	80 mA
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 filled ABS/Aluminum/Buna
Fitting/Connection	M5x.8 - 360° swivel male fitting
Net Weight	1 oz. (28.3g)
Safety and Environmental Compliance	CE, RohS

Vaccon Return Policy - Electronic Products (Switches, Sensors, Valves)

To return a product, whether it was ordered incorrectly or is defective, please contact your local Vaccon distributor for a Return Material Authorization number (RMA). For Vaccon distributors, please have the following information available: original invoice number, date ordered, the product part number, quantity being returned and the reason for return.

- a. Damage due to improper installation / application** - Detailed installation and operating instructions are included with every electronic product. Any installation that deviates from these instructions or any application not within these specifications voids any warranty and the product cannot be returned and credit will not be issued.
- b. Modified/Altered Product** - Any product that has been altered or modified in any way voids the warranty and the product cannot be returned and credit will not be issued.
- c. Incorrect Shipment or Defective Product** - If a shipment is incorrect (quantity, model number, etc.) please notify Vaccon within 3 business days of receipt of order. Any defective product, under warranty, that is returned to Vaccon will be repaired, replaced or credited 100% at Vaccon's discretion. Product returned to the customer will be returned at Vaccon's expense. Any product that is returned due to manufacturer's defect must be returned in its original condition or a credit will not be issued.
- d. Damage due to shipping/ handling** - If product is received damaged due to transportation mishandling, please contact your local Vaccon distributor. Vaccon will credit the shipping charges once a claim number has been filed and Vaccon has received a credit. Any product returned to Vaccon that is not properly packaged and results in the product being damaged will be assessed a charge based on the cost to return it to resalable condition. If the product cannot be repaired, a credit will not be issued.

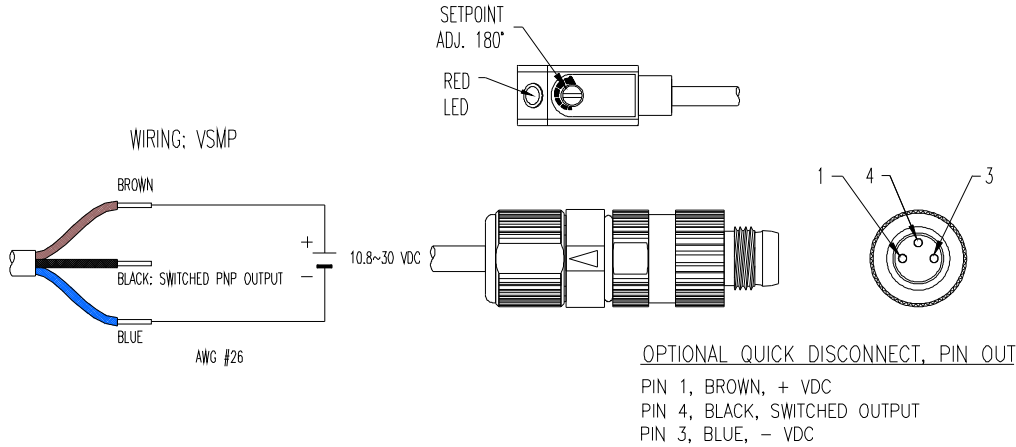
For a copy of Vaccon's complete return policy please contact your local Vaccon distributor or Vaccon customer service.

Warranty – Electronic Products (Switches, Sensors, Valves)

Vaccon Company warrants that its electronic products are free from defects in workmanship and materials for a period of 90 days after invoice. The company makes no other warranty, expressed or implied, and will not assume any liability for damages, labor or delays incidental hereto. Not intended for life support systems.

Wiring Diagram and Specifications for Vaccon VSMP Miniature Vacuum Switch

The Vaccon VSMP Electronic Vacuum Switch is designed for use in low voltage, high-side switched circuits.



NOTE: Please use a fine tipped screwdriver and light touch when adjusting set point. Forcing the adjustment screw past its limits (180° max rotation) will damage the switch and void its warranty.

Specifications	Miniature Vacuum Switches VSMP
Rated Vacuum Range	0" to 30" Hg (0 mbar 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 - 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. Switched Voltage Load	30 VDC
Max. Switched Current Load	80 mA
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 filled ABS/Aluminum/Buna
Fitting/Connection	M5x.8 - 360° swivel male fitting
Net Weight	1 oz. (28.3g)
Safety and Environmental Compliance	CE, RoHS

Vaccon Return Policy - Electronic Products (Switches, Sensors, Valves)

To return a product, whether it was ordered incorrectly or is defective, please contact your local Vaccon distributor for a Return Material Authorization number (RMA). For Vaccon distributors, please have the following information available: original invoice number, date ordered, the product part number, quantity being returned and the reason for return.

- a. Damage due to improper installation / application** - Detailed installation and operating instructions are included with every electronic product. Any installation that deviates from these instructions or any application not within these specifications voids any warranty and the product cannot be returned and credit will not be issued.
- b. Modified/Altered Product** - Any product that has been altered or modified in any way voids the warranty and the product cannot be returned and credit will not be issued.
- c. Incorrect Shipment or Defective Product** - If a shipment is incorrect (quantity, model number, etc.) please notify Vaccon within 3 business days of receipt of order. Any defective product, under warranty, that is returned to Vaccon will be repaired, replaced or credited 100% at Vaccon's discretion. Product returned to the customer will be returned at Vaccon's expense. Any product that is returned due to manufacturer's defect must be returned in its original condition or a credit will not be issued.
- d. Damage due to shipping/ handling** - If product is received damaged due to transportation mishandling, please contact your local Vaccon distributor. Vaccon will credit the shipping charges once a claim number has been filed and Vaccon has received a credit. Any product returned to Vaccon that is not properly packaged and results in the product being damaged will be assessed a charge based on the cost to return it to resalable condition. If the product cannot be repaired, a credit will not be issued.

For a copy of Vaccon's complete return policy please contact your local Vaccon distributor or Vaccon customer service.

Warranty – Electronic Products (Switches, Sensors, Valves)

Vaccon Company warrants that its electronic products are free from defects in workmanship and materials for a period of 90 days after invoice. The company makes no other warranty, expressed or implied, and will not assume any liability for damages, labor or delays incidental hereto. Not intended for life support systems.