

!!!!!!! NEW PRODUCT ANNOUNCEMENT !!!!!!!

Electronic Vacuum Switch – VXX Series

Miniature, adjustable set-pin and hysteresis, M8, 3-pin Quick Disconnect

Ideal for applications:

- Part present detection
- Pick and place
- End of arm tooling
- Material handling
- Process control
- Robotic assembly
- Manifold mount



List Price: \$75.25

Vaccon's miniature electronic vacuum switches monitor vacuum levels in systems and provide a switched output. The VXX Series has both adjustable set-point and hysteresis and an LED indicator and can be mounted directly onto a wide variety of Vaccon pumps.

Switch Options:

- Choice of output – NPN, PNP
- Vacuum port – 1/8" NPT, G 1/8, and M5
- Cordset with M8, 3-pin female connector with 5M lead wire

Features/Benefits:

- Field-adjustable set-point for the full vacuum range
- Independent hysteresis adjustment – to meet application requirements
- Reliable LED visual confirmation – operator convenience
- Economical - standard with M8, 3-pin Quick Disconnect on 1M lead wire
- Compact – placed at point of use for accurate reading and quick response time
- Lightweight - ideal for end of arm tooling, robotic end effectors and manifold systems
- Mountable to both Vaccon and non-Vaccon vacuum pumps
- RoHS compliant

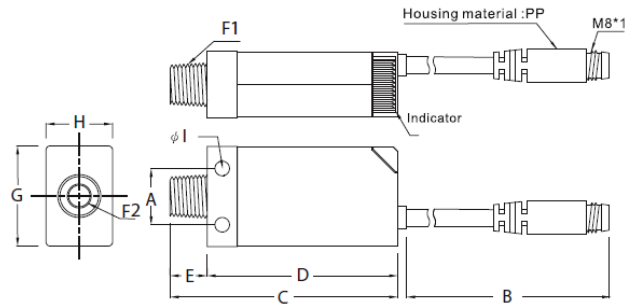
VXXN: Sinking (NPN) Designed for use in low voltage, ground side switched circuits typical of those found in PLC based applications.

VXXP: Sourcing (PNP) Designed for use in low voltage, high side switched circuits typical of those found in PLC based applications.

How to Specify:

P/N	Vacuum Switch
VXXN	Adjustable Miniature Vacuum Switch - NPN, 1/8" NPT male, M5 female
VXXP	Adjustable Miniature Vacuum Switch - PNP, 1/8" NPT male, M5 female
I-VXXN	Adjustable Miniature Vacuum Switch - NPN, G1/8 male, M5 female
I-VXXP	Adjustable Miniature Vacuum Switch - PNP, G1/8 male, M5 female

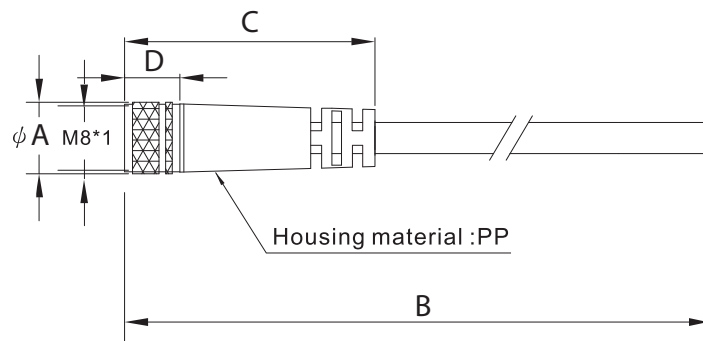
VXX Series Vacuum Switch Drawing &Dimensions:



Model Number		A	B	C	D	E	F1	F2	H	I	Weight (with male connector)
VXX(N, P)	in.	0.52	3.28 ft	2.09	1.75	0.33	1/8 NPT	M5	0.61	0.13	2.29 oz
I-VXX(N, P)	mm	13.1	1M	53.0	44.5	8.5	G 1/8	M5	15.5	3.4	65 g

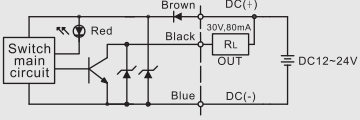
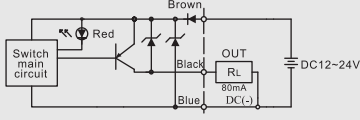
Additional Accessory:

QDS-8-3F - Cordset with M8, 3-pin Female Connector with 5M lead wire. **List Price: \$15.00**



Model Number		A	B	C	D
QDS-8-3F	in.	0.35	16.4 ft	1.26	0.28
	mm	9	5M	32	7

VXX Series Wiring Schematics:

OUTPUT SPECIFICATIONS	(I-)VXXN	(I-)VXXP
CONNECT DIAGRAM		
CHARACTERISTICS		
Output method	NPN open collector 30V 80mA	PNP open collector 80mA
Hysteresis	1~10% of setting pressure (Adjustable)	
Setting points	1Point	
Operation indicating Lamp	Light at ON(Red)	

VXX(N,P) Specifications:

SPECIFICATIONS		(I-)VXX(N, P) (Vacuum)
Set pressure range		-101 to 0 kPa (-29.9 ~ 0 "Hg)
Withstand pressure		300kPa (43.5 PSI)
Fluid		Air, Non-corrosive/Non-flammable gas
Power supply voltage		12 to 24VDC $\pm 10\%$, Ripple (P-P) 10% or less
Response time		5ms or less
Repeatability		$\pm 1\%$ F.S.
Current consumption		1output : NPN & PNP : 21mA max.
Environment	Enclosure	IP40
	Ambient temp. range	Operation: 0 ~ 50°C, Storage: -20 ~ 60°C (No condensation or freezing)
	Ambient humidity range	Operation/Storage: 35 ~ 85% RH (No condensation)
	Withstand voltage	1000VAC in 1-min (between case and lead wire)
	Insulation resistance	50Mohm min. (at 500VDC , between case and lead wire)
	Vibration	Total amplitude 1.5mm, 10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X,Y and Z
Shock		980m/s ² (100G), 3 times each in direction of X,Y and Z
Temperature characteristic		$\pm 3\%$ F.S. (Standard : 25 °C)
Port size		1/8"NPT, M5; G 1/8", M5
Weight		Approx. *65g(with male connector)