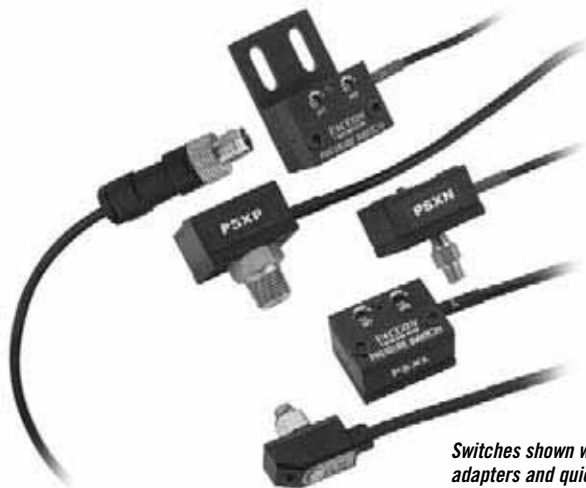


Solid State Pressure Switches

Miniature, precision control

PSX(L, N, P) Series



Switches shown with optional adapters and quick disconnect

Vaccon's miniature electronic pressure switching devices interface from pressure to electrical control circuits providing precision control for feedback mechanisms or system monitoring.

Note: Both the set-point and hysteresis are adjustable and include an LED indicator.

PSXL: Designed for use in low voltage circuits that require a digital output signal. The PSXL will output a high voltage when sensing vacuum levels lower than the set point, and a low voltage when sensing vacuum levels higher than the set point. A 2.2K ohm resistor is used as the high voltage pull-up resistor.

PSXN: Designed for use in low voltage, ground side switched circuits typical of those found in PLC based applications.

PSXP: Designed for use in low voltage, high side switched circuits typical of those found in PLC based applications.

Ideal Applications:

- Monitoring compressed air supply pressure
- Process control
- Leak testing

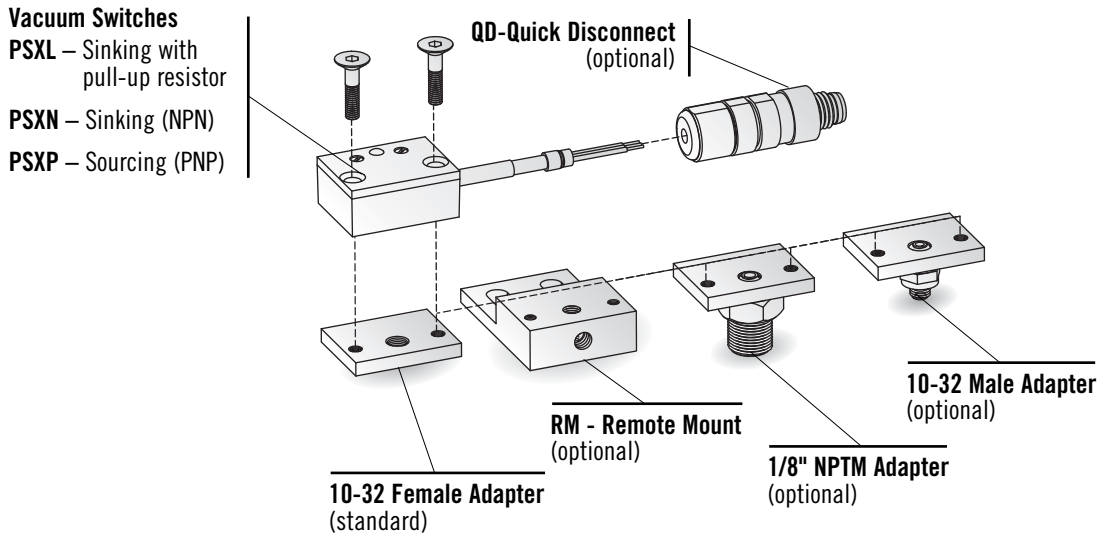
Features/Benefits

- Compact – placed at point of use for accurate reading and quick response time
- Lightweight – 1 oz [28.35g]
- Independent hysteresis adjustment – to meet application requirements
- Precision Control – offers field-adjustable set-point for the full vacuum range
- Reliable LED for visual confirmation – easy set-up
- RoHS compliant and meets EMC standards

Pressure Switch Options:

- Choice of output – L, NPN, and PNP Series
- Remote mount
- Male port adapters 10-32 or 1/8" NPT
- 10' [3m] leads
- Electrical quick disconnects

PSX (L, N, P) Switch Configurations and Options:



How to Specify:

PSXN - RM - QD

P/N	Pressure Switch
PSXL	Adj. Mini Vacuum Switch – Sinking with Pull-up Resistor
PSXN	Adj. Mini Vacuum Switch – NPN
PSXP	Adj. Mini Vacuum Switch – PNP

P/N	Switch
QD	Quick Disconnect

P/N	Adapter Options
	10-32 Female Adapter (Std)
RM	Remote Mount
32	10-32 Male Adapter
18	1/8" NPTM Adapter
10	10' [3m] Leads

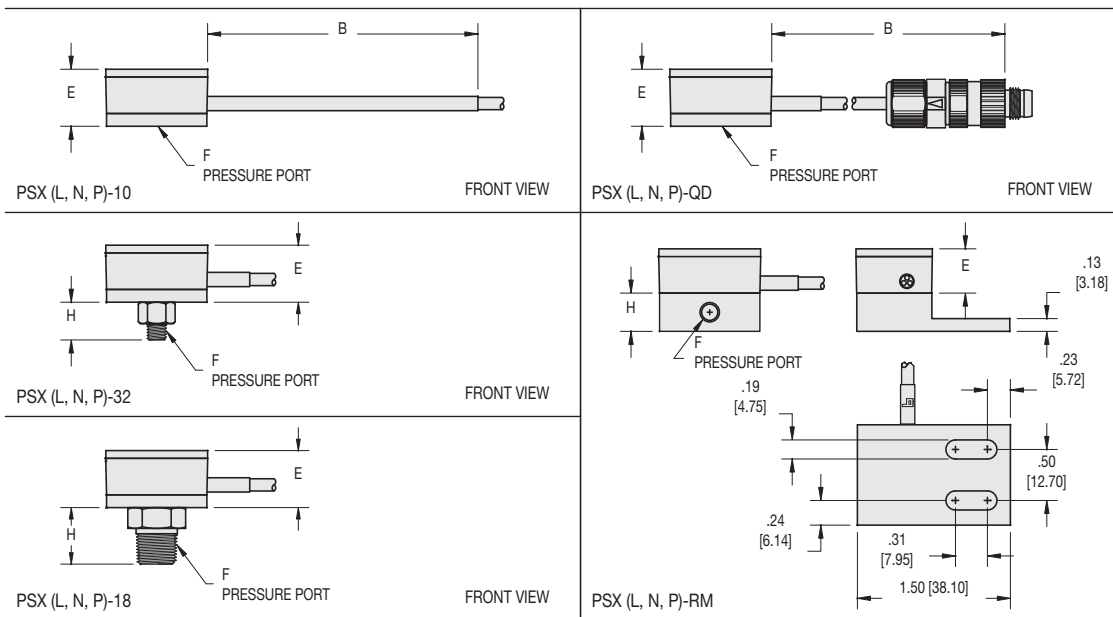
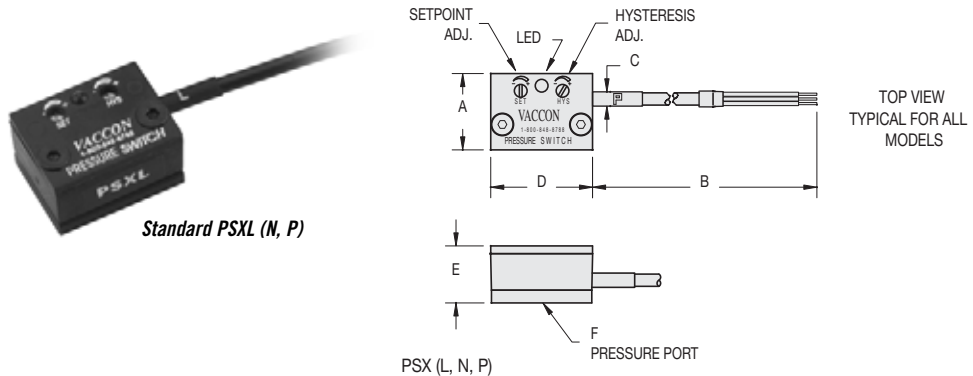


On-line Configurator and CAD Drawings @ www.vaccon.com

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.

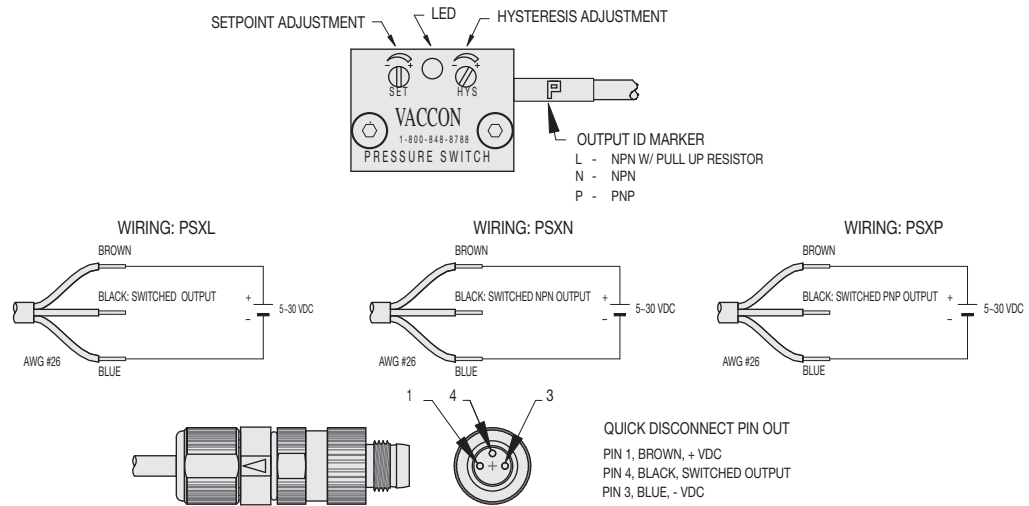
Get the pump you need, in the format you like!

Solid State Pressure Switch: PSX (L, N, P)



Model #	Dimensions								Weight
	A	B	C	D	E	F	H		
PSX (L, N, P)	in.	24.00	0.12	1.00	0.56	10-32 F	N/A	0.6 oz	
	mm	[609.6]						[17g]	
PSX (L, N, P)-10	in.	120.00	0.12	1.00	0.56	10-32 M	0.46	1.5 oz	
	mm	[3084.0]						[20g]	
PSX (L, N, P)-32	in.	0.75	24.00	0.12	1.00	1/8 NPT M	0.55	1.0 oz	
	mm							[19.1]	[609.6]
PSX (L, N, P)-QD	in.	0.75	24.00	0.12	1.00	10-32 F	N/A	1.2 oz	
	mm							[609.6]	[3.0]
PSX (L, N, P)-RM	in.	0.75	24.00	0.12	1.00	10-32 F	0.37	1.1 oz	
	mm							[609.6]	[3.0]

Wiring Schematic for PSX (L, N, P)



PSX (L, N, P) Specifications:

	PSXL	PSXN	PSXP
Rated Pressure Range:	10 PSI to 150 PSI [0.7 bar to 10.3 bar]		
Proof Pressure:	300 PSI [20.7 bar]		
Burst Pressure:	500 PSI [34.5 bar]		
Media:	Non-Corrosive, Dry Gases		
Supply Voltage:	5 to 30 VDC		
Current Consumption:	20 mA Max.		
Sensing/Switching Material:	Single Crystal Silicon		
Output:	Switched - Sinking w/Pull-up	Switched - Sinking (NPN)	Switched - Sourcing (PNP)
Electrical Connection:	3 Wire - 26 AWG - 2' (.6m), Optional 3 pin, M8 Quick Disconnect		
Hysteresis:	Adjustable - 0-15% Full Scale		
Response Time:	2 ms		
Circuit Protection:	NONE		
Max. Switch Voltage Load:	N/A	24 VDC	24 VDC
Max. Switched Current Load:	N/A	100 mA	100 mA
Linearity:	+/- 0.5% Full Scale		
Thermal Error:	+/- 7% Full Scale/212°F Max. [100°C]		
Thermal Compensation:	NONE		
Display:	Single Red LED		
Switch Indication:	Red LED ON (Switched Output ON)		
IP Protection:	IP00		
Operating Temperature:	-40°F to 150°F [-40°C to 65°C]		
Operating Humidity:	35 to 85% RH (No Condensation)		
Mechanical Life:	100,000,000 Cycles		
Construction:	Glass filed ABS/Aluminum/Buna		
Fitting/Connection:	10-32 Female Standard, Optional 10-32 Male, 1/8" NPT Male, Face Seal Mount		
Weight:	0.6 oz [17g]		
Safety and Environmental Compliance:	RoHS		