



▶ Tinytrol® Vacuum Switches

High quality, factory set vacuum switches commonly found in Medical & Industrial environments.

Tinytrol vacuum switches provide compact, low-profile vacuum sensing with a variety of connection styles for easy integration into system designs. These switches offer straightforward electrical on/off control based on system vacuum. As vacuum rises or falls, one contact opens while the other closes. This provides a perfect solution for monitoring, controlling, and notifying.

Tinytrol Vacuum Switches are factory set to actuate at vacuum levels ranging from 2.50 to 300 inches of water. They are available with multiple air connection types, mounting options, and electrical ratings to support a wide range of applications.

Each switch is designed and manufactured to precise standards to meet the performance, cost, and repeatability requirements of original equipment manufacturers and instrument builders.

Product Specifications

ECONOMICAL: Presair switching system costs are comparable or lower than conventional controls meeting the needs of original equipment manufacturers.

ACCURATE: All switches are 100% tested with a 100,000+ cycle life.

- Factory set vacuum range: 2.50 inches of water to 300 inches of water.
- Single-Pole, Double-Throw (SPDT), Single-Pole, Single-Throw (SPST) or Double-Pole, Double-Throw (DPDT) models available
- 2 HP @ 240 VAC; 1HP @ 120 VAC; 21 AMPS @ 250 VAC
Other ratings available from 1 to 25 Amps. Gold contacts available.

- Operating temperature of -22°F to 150°F
- UL / cUL recognized
- Acetal body construction
- Standard diaphragm material is nitrile. Other Diaphragms available in various materials - silicone, neoprene, EPDM, etc.
- Variety of mounting and connection styles
- Made in the U.S.A.

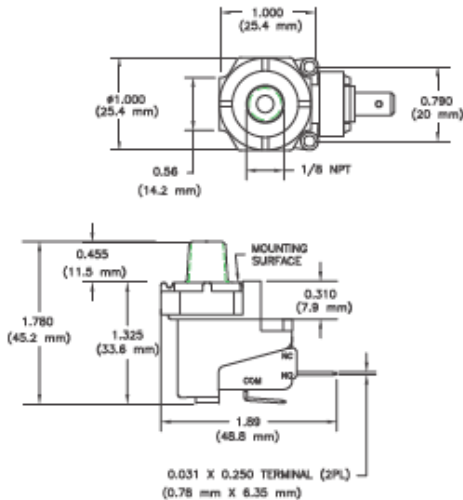
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Tinytrol® Vacuum Switch Mounting Options

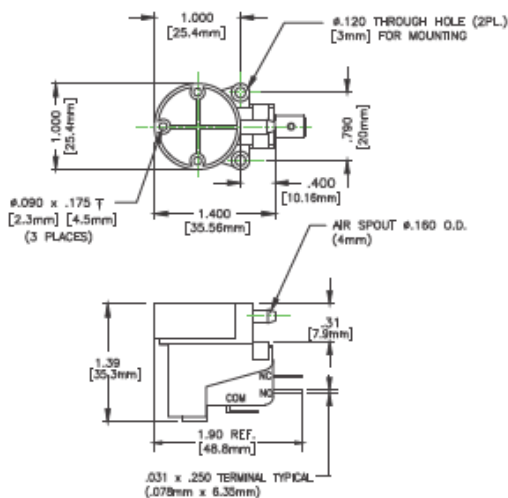
Presair switches are available with a range of mounting options and air connection configurations to meet the requirements of original equipment manufacturers. All models shown below are a single-pole configuration. For dimensional drawings of other configurations, please contact us.

Model TNV *1/8 NPT Pressure Port (Adapter available 5/16" or 3/8" Diameter Mounting Hole)*



TNV4xxR Model, 1/8 NPT Black, SPNO
1.90" x 1.80"

Model TRV *Radial Mount, Side Air Spout 1/8" O.D. (Spout may be specified at other 90° angles.)*



TRV1xxA Model, Radial Mount w/ Side
Air Spout, SPDT
1.40" x 1.90"

Tinytrol® Vacuum Switch Nomenclature

Determine your part number from our standard list of options below.

Tinytrol® Vacuum Switch Nomenclature						*include the desired setpoint at the end of the part number; Inches of Water Rising (WR) or Inches of Water Falling (WF)				
Tinytrol®		Mounting Options		Action	Contact Figuration		Electrical Ratings		Special	
T	N	1/8 NPT	V	1	Single-Pole, Double-Throw (SPDT)	11	21 Amp, 1 hp @ 125VAC, Standard		A	Standard
						16	5 Amp, Low Force (17g), Low Pressure Applications (i.e. 0.25 inches of water)			
	R	Radial Mount w/ Side Air Spout		2	Double-Pole, Double-Throw (DPDT)	17	5 Amp, Regular Force (36g), Low Pressure Applications (i.e. 12 inches of water)		E	EPDM Diaphragm
				4	Single-Pole, Single-Throw (SPST), Normally Open	25	25 Amps @ 240VAC			
T	R		V	1		11		A-20WR*		
Tinytrol	Radial Mount w/ Side Air Spout		Vacuum	SPDT		21 Amp, 1 hp @ 125VAC		Standard, Factory Set at 20 inches of water rising		

Custom Options Available

Presair offers a variety of custom options such as factory set vacuum point, mounting options, air spout sizes, diaphragm material, etc. Please contact us with your application requirements.



TNV4xxA Model, 1/8 NPT with PN10117
5/16" or 3/8" diameter mounting hole
adapter
3.90" x 1.90"