# **Econ-O-Trol Switch**

#### **Features**

- Superior resolution
- Long life
- Easy setpoint adjustment
- Ideal for pressure or vacuum applications
- NEMA 1, 3 & 4
- Stripped and housed versions available

### **Applications**

Accuracy:

UL:

CSA:

PED (European):

- Medical equipment
- Metal working

Steel mills

Food & beverage

Pump & compressor monitoring 

± 2% of the adjustable range

- Air proving in HVAC systems
- Irrigation systems
- Engine monitoring
- Machine tools
- Water & sewage treatment facilities
- Pulp & Paper Mills

### **General Specifications\***

Switch:		Operating.
Туре:	Single pole double throw (SPDT) snap action; single circuit	Adjustment Setpoi Positive Pressure:
Rating:	Class H limit switch: 10 amps @ 125/250 VAC; 3 amps @ 480 VAC; 0.5 amps @ 24 VDC (standard).	Vacuum:
Wetted Parts: Process Fitting:	Anodized aluminum (standard)	
Seals & Diaphragms:	Buna-N (standard)	Adjustable Deadbar
Enclosure:	Anodized aluminum (housed models)	(Optional):
Electrical Connection: Stripped Models:	Screw terminals	
Housed models:	Screw terminals via 1/2" NPT female conduit connection	Options:
Enclosure Ratings: Stripped models:	NEMA 1	
Housed models:	NEMA 4 & IP65	Shipping Weight: Housed models:
Pressure Connection: Stripped models:	1/2" NPT external with 1/8" NPT internal	Stripped models:
Housed models:	1/4" NPT female	Wiring Diagra
Approvals:		

Stripped models: UL recognized

Housed models: UL listed. File No. E42816

CSA listed under Guide 380-W-1.16, Class

All models and modifications shown are

component (UR)

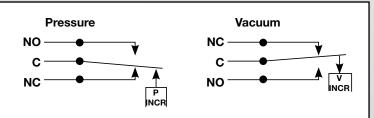
3231, File LR22355

Compliant to PED 97/23/EC



	Temperature Range:	
	Operating:	-20° to +165°F (-29 to +74°C)
,	Adjustment Setpoint: Positive Pressure:	Turn self locking adjustment nut clockwise to increase setpoint; counterclockwise to decrease setpoint.
	Vacuum:	Turn self locking adjustment nut counterclockwise to increase setpoint, clockwise to decrease setpoint (towards 30" Hg).
_	Adjustable Deadband (Optional):	Turn small self locking adjustment nut on limit switch counterclockwise to increase differential. As the differential is increased, the setpoint is also increased. Balance one adjustment against the other to obtain the desired setpoint.
	Options:	-Plastic cover (stripped models only) -NEMA 4X enclosure (housed models only) -Cleaned for oxygen service
		-Manual reset -Adjustable deadband
	Shipping Weight: Housed models:	1.5 lbs. approx.
	Stripped models:	0.75 lbs. approx.

## am



See product configurator for additional options.

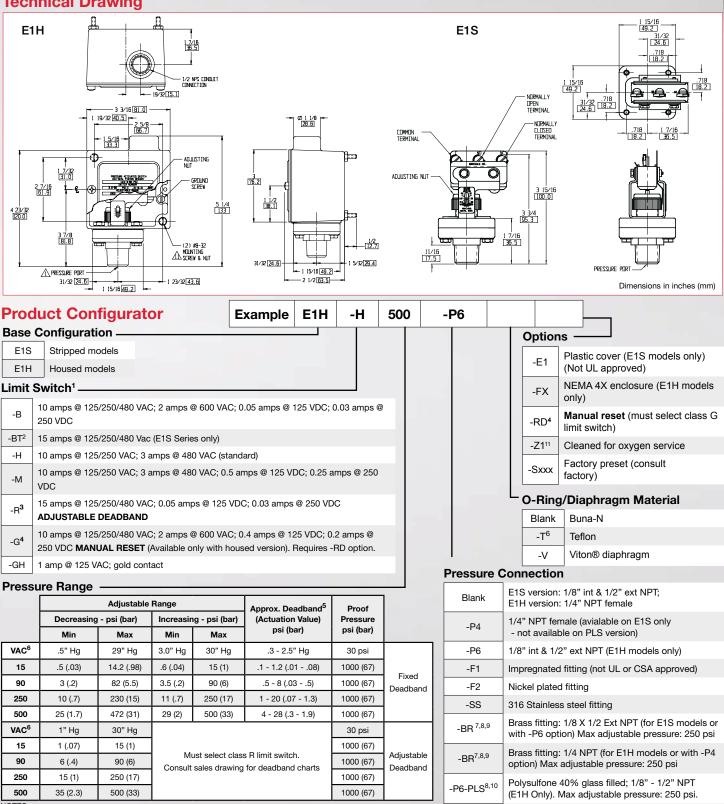




## **Econ-O-Trol Switch**

## E1S, E1H Series

#### **Technical Drawing**



NOTES:

Consult sales drawing for specific deadband values

Available on E1S Series only (terminals are on horizontal plane)

To increase differential, turn small, self-locking adjusting nut counter-clockwise Add -LC suffix at end of -G -RD (manual reset) models for UL approval as limit

controls (No UL without -LC suffix). -LC is not available in range 500.

<sup>5</sup> Deadband values indicated when used with the "H" limit switch <sup>6</sup> Vacuum models are provided with 1/2" NPT External, 1/8" NPT Internal

"Combo" fitting only on E1S models

<sup>9</sup> "-BR" models have a proof pressure of 500 psi

10 Plastic fittings have a proof pressure of 400 psi

11 Z1 option requires use with SS option (include suffix -SS-Z1 in the part number

-PLS<sup>8,10</sup>

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Polysulfone 40% glass filled; 1/8" - 1/2" NPT

(E1S Only). Max adjustable pressure: 250 psi.

See Barksdale's Standard Conditions of Sale • Specifications are subject to modification at any time • Bulletin #S0084-K • 05/16 • ©2016 • Printed in the U.S.A

<sup>7</sup> Not available on vacuum models Not available in range 500