Neo-Dyn[®] Series 181P Vacuum Switch/Internal Adjustment



Weather Proof (NEMA 4X and 13)

DESCRIPTION

Compact, adjustable vacuum switch well suited to numerous applications. Our efficient Nega-Rate® Belleville disc spring offers superior set point stability and vibration resistance. The 181P series vacuum switch also has a selectable deadband feature which can be preset at the factory.

Operating Pressure Data						
Adjustable Range Number	Adjustable Set Point Range		Selectable	Default	Maximum Recommended	Proof
	Increasing	Decreasing	Deadband	Deadband (approx.)	System Pressure	Pressure
2	4 to 28" Hg	2 to 26" Hg	1.5 to 2.5" Hg	2" Hg	150	250

All values given in psig unless otherwise noted.

Standard Specifications

Electrical Listings

Switch listed by Underwriters Laboratories, Inc., CSA International and Factory Mutual

Electrical Connection

1/2 NPT male conduit connection, 18" free leads

Pressure Connection

1/4 NPT Female and 1/2 NPT Male

Temperature Range*

Ambient: -40F to +176F

(-40C to +80C)

Media: -40F to +300F

(-40C to + 149C)

* Temperature limits change with O-Ring selection

Adjustment

Internal, slotted adjustment wheel

Shipping Weight

Approximately 13 ounces

Ordering Sequence — Select desired option for each category

OPTIONS

Wetted Material

- Aluminum port, polyimide diaphragm, Buna-N O-Ring
- 316 stainless steel port, polyimide diaphragm, Buna-N O-Ring

Adjustable Range

2" dec. to 28" Hg inc.

Electrical Form

- 11 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC
- 11 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC

Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13

Miscellaneous

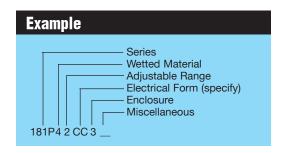
- Epoxy paint exterior for extra protection for severe environments Viton O-Ring
- EPR O-Ring С
- 3/4 NPT Conduit box with terminal block
- Gold electrical contacts for extremely low current applications
- 72" Electrical free leads
- CE Mark
- Mounting bracket kit

Special (Consult representative or factory)

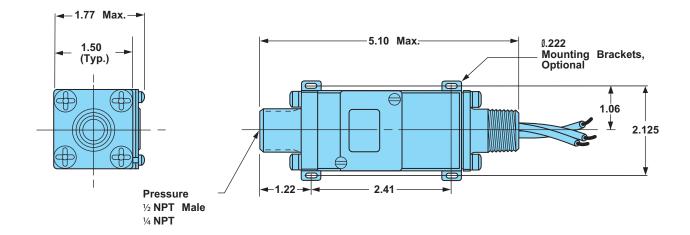
Non-catalog adjustable range and/or set point, deadband and proof pressure

Ordering Procedure

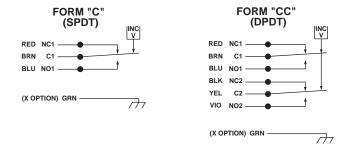
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required
- When a selectable deadband is desired, stipulate deadband within allowed range



Envelope Dimensions



Electrical Form



Basic Principles of Design

