

Neo-Dyn® Series 182P Vacuum Switch



**Explosion Proof
Hermetically Sealed
(NEMA 7 and 9)**

DESCRIPTION

Compact, versatile vacuum switch well suited for hazardous or corrosive atmospheres. For vacuum applications. Features efficient Nega-Rate® Belleville disc spring for stable set points and is field adjustable using 1/8" allen wrench. Once adjustments are made and switch is installed, it becomes tamper proof.

Operating Pressure Data

Adjustable Range Number	Adjustable Set-Point Range		Deadband (approximate)	Maximum Recommended System Pressure	Proof Pressure
	Increasing Vacuum	Decreasing Vacuum			
2	4 to 28" Hg	2 to 26" Hg	2" Hg	150	250

All values given in psig.

Standard Specifications

Electrical

Snap action electrical switch listed by Underwriters' Laboratories, Inc., Factory Mutual and CSA Testing Laboratories

Electrical Connection

1/2" - 14 NPT male conduit connection with PVC insulated 18 AWG leads 18" long

Pressure Connection

1/4" - 18 NPT Male

Temperature Range*

Ambient: -40°F to +180°F
(-40°C to +82°C)

Media: -40°F to +300°F
(-40°C to +149°C)

*Temperature limits change with O-Ring selection

Adjustment

1/8" allen wrench through port

Shipping Weight

Approximately 14 ounces

Ordering Sequence — Select desired option for each category

OPTIONS

Wetted Material

- 1 Aluminum port, Teflon coated polyimide diaphragm, Buna-N O-Ring, stainless and cadmium plated steel
- 4 Stainless steel, Teflon coated polyimide diaphragm and Buna-N O-Ring

Adjustable Range

- 2 2" Hg dec. to 28" Hg inc. vacuum (.07 bar dec. to 2.1 bar inc.)

Electrical Form

- C 11 amps and 1/4 hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC
- CC 11 amps and 1/4 hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC

Enclosure

- 6 Explosion proof • factory sealed • hermetically sealed electrical assembly P/N 057-0030 (C Form); P/N 057-0057 (CC Form). **Underwriters' Laboratories, Inc.** listed (file #E56677) or **Canadian Standards Association** certified (file #34146) for Division 1 and 2; Class I, Groups A, B, C and D; Class II, Groups E, F and G hazardous locations (NEMA 7 and 9)

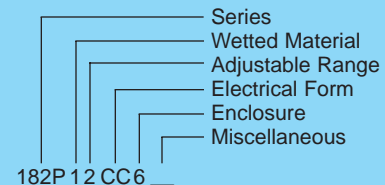
Miscellaneous

- A Epoxy paint exterior — extra protection for severe environments
- B Viton O-Ring
- C EPR O-Ring
- H Stainless steel body
- I 3/4" Conduit box with terminal strip
- M Gold electrical contacts for extremely low current applications
- N CENELEC approval
- R 72" Electrical free leads
- S Stainless steel diaphragm — Available in selected models

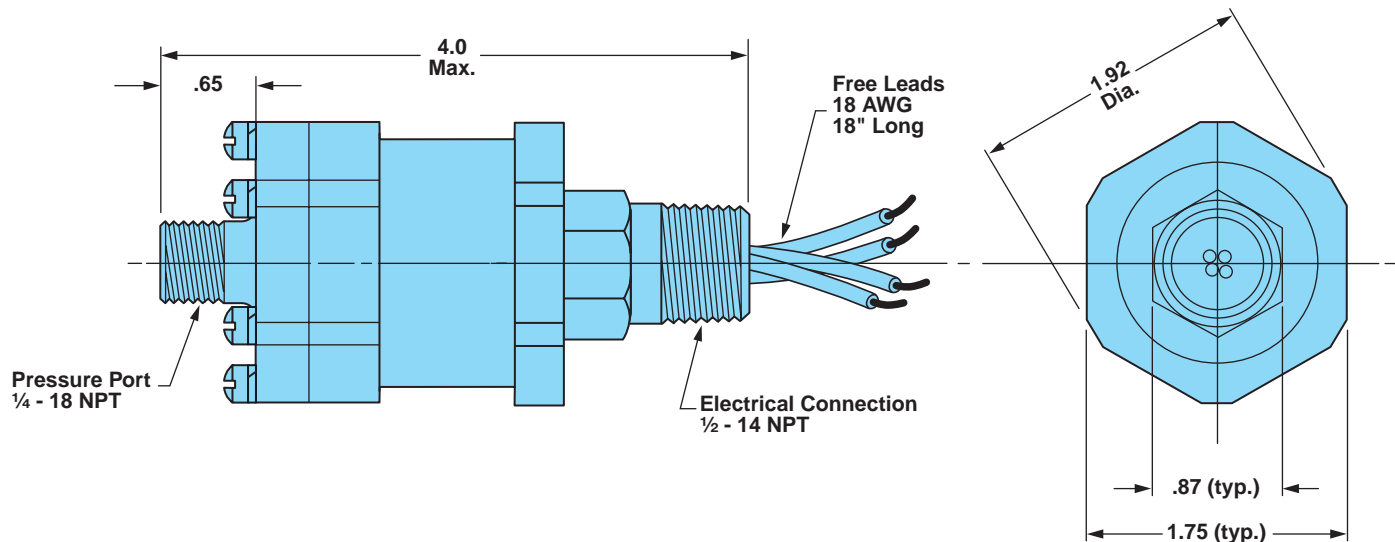
Ordering Procedure

- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

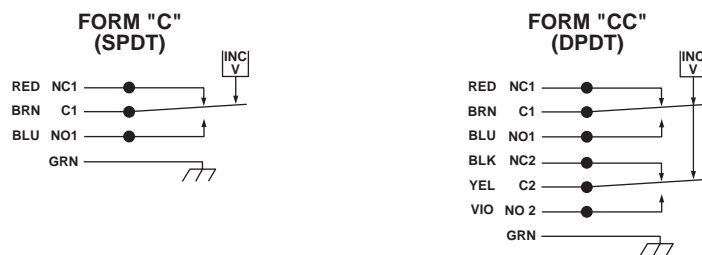
Example



Envelope Dimensions



Electrical Form



Basic Principles of Design

