

# Neo-Dyn® Series 185P Vacuum Switch



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

## DESCRIPTION

Compact, tamper proof vacuum switch. Has efficient Nega-Rate® Belleville disc spring sensing mechanism. Easy to install.

## Operating Pressure Data

Fixed Set Point Range		Maximum Recommended System Pressure	Proof Pressure
Increasing	Decreasing		
5 to 24" Hg	4 to 20" Hg	150	250

All values given in psig.

## Standard Specifications

### Deadband (Differential)

The deadband is 1" Hg or 15% (whichever is greater) of the set point.

### Electrical

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

### Electrical Connection

½" - 14 NPT male conduit connection with PVC insulated 18 AWG leads 18" long

### Pressure Connection

¼" - 18 NPT Male

### Temperature Range

Ambient: -30°F to +160°F  
(-34°C to +71°C)

Media: -30°F to +160°F  
(-34°C to +71°C)

### 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

#### Electrical Form

C 11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC;  
.5 amps resistive 125 VDC

CC 11 amps and ¼ 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

M Gold electrical contacts for extremely low current applications

N CENELEC approval

R 72" Electrical free leads

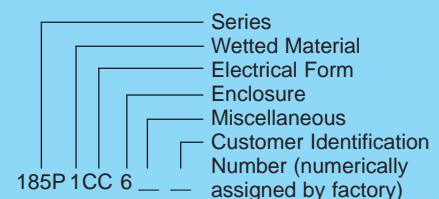
#### Special (Consult representative or factory)

- Electrical connection per MS33678-10SL-3P
- Non-catalog set point, deadband and/or proof pressure
- Operating temperature capability from -65°F to +350°F
- Brass port, Teflon coated polyimide diaphragm and EPR O-Ring

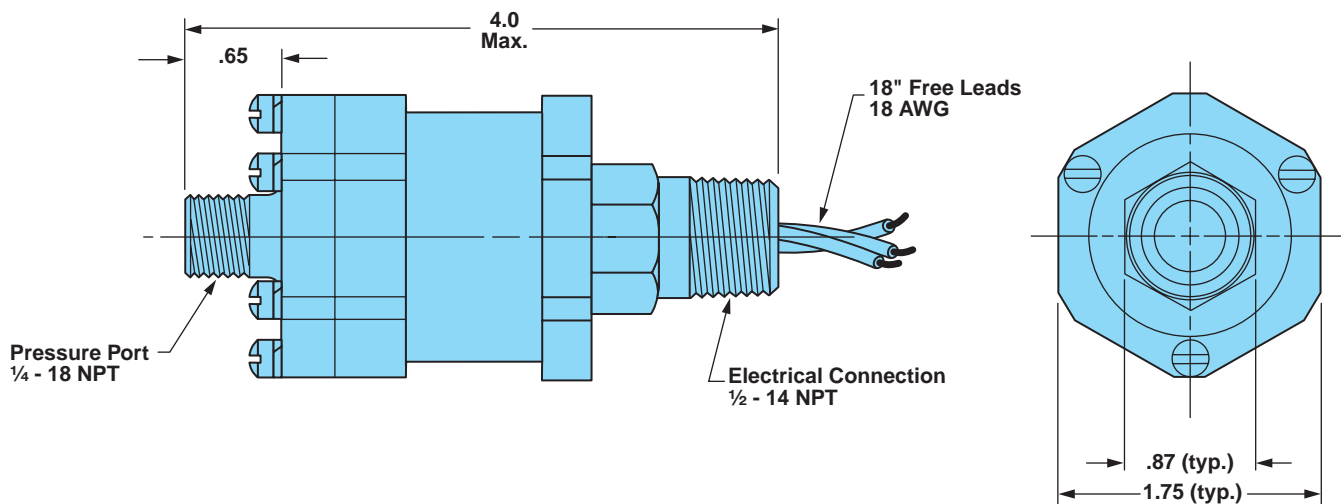
## Ordering Procedure

- Specify set point, increasing or decreasing
- Specify media
- Insert available option number or letter designation as required

## Example



**Envelope Dimensions**



**Electrical Form**



**Basic Principles of Design**

