

## Neo-Dyn® Series 164P Differential Pressure Switch

Sensitive, compact, factory set/tamper proof differential pressure switch. Has efficient Nega-Rate® Belleville disc spring sensing mechanism.

### Operating Pressure Data

Fixed Set Point Range		Maximum Recommended System Pressure	Proof Pressure		
Increasing	Decreasing		Simultaneous	High/Low	Low/High
9" H <sub>2</sub> O to 60" H <sub>2</sub> O	5" H <sub>2</sub> O to 55" H <sub>2</sub> O	Up to 100 psig	150 psig	150 psid	150 psid

Values in "H<sub>2</sub>O are differential pressure.

### Standard Specifications

#### Deadband (Differential)

The deadband can be selected anywhere from 4" H<sub>2</sub>O or 8% (whichever is greater) to 45% 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 Connections

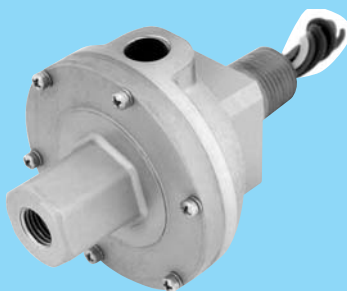
¼" - 18 NPT Female

#### 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 20 ounces



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

### Ordering Sequence — Select desired option for each category

#### OPTIONS

#### Wetted Material

**1** Aluminum and stainless steel, Teflon coated polyimide diaphragm, Buna-N O-Rings

#### 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

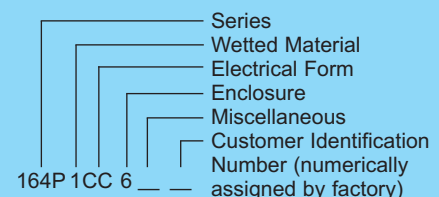
#### Special (Consult representative or factory)

- Pressure port per MS33649-04
- Electrical connection per MS33678-10SL-3P
- Non-catalog set point, deadband and/or proof pressure
- Operating temperature capability from -65°F to +350°F

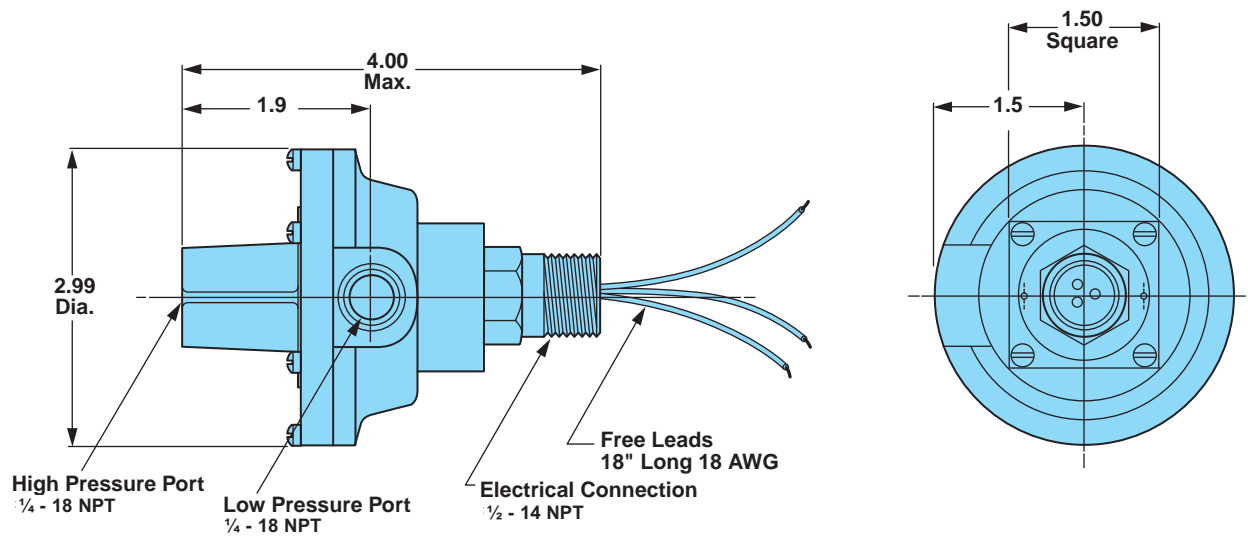
### Ordering Procedure

- Specify set point, increasing or decreasing
- Specify deadband if pertinent and if not, specify as 'open'
- Specify system pressure
- Specify media
- Insert available option number or letter designation as required

### Example



**Envelope Dimensions**



**Electrical Form**



**Basic Principles of Design**

