

**Weather Proof  
(NEMA 4 and 13)**

## DESCRIPTION

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
6" H <sub>2</sub> O to 60" H <sub>2</sub> O	3" H <sub>2</sub> O to 55" H <sub>2</sub> O	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 3" 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. 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 16 ounces

## 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 5 amps and 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC  
CC 5 amps and 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC

#### Enclosure

3 Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13  
Note: Low pressure side for dry air or inert gas media only

#### 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  
R 72" Electrical free leads

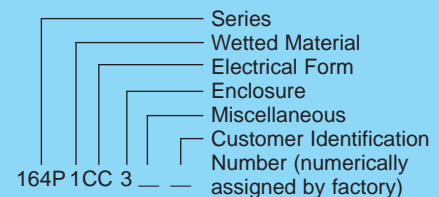
### Special (Consult representative or factory)

- 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

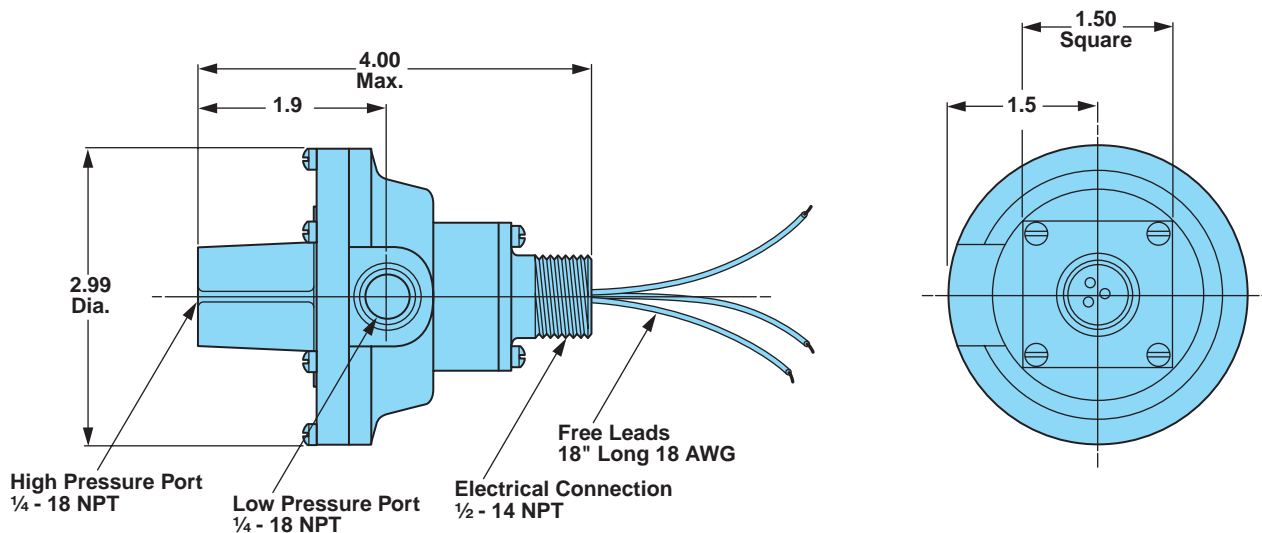
## Ordering Procedure

- 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**

