



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

## DESCRIPTION

Designed for high pressure pneumatic or low impulse hydraulic applications requiring a narrow deadband. Has diaphragm sensor with Nega-Rate® Belleville disc spring for excellent accuracy and repeatability.

## Operating Pressure Data

Series	Fixed Set Point Range		Maximum Recommended System Pressure	Proof Pressure
	Increasing	Decreasing		
125P	40 to 3050	20 to 2800	5000	7500

All values given in psig.

## Standard Specifications

### Deadband (Differential)

The deadband can be selected anywhere from 20 psig 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 Testing Laboratories

### Electrical Connection

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

### Pressure Connection

¼" - 18 NPT Female

### 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

### Shipping Weight

Approximately 1 pound

## Ordering Sequence — Select desired option for each category

### OPTIONS

#### Wetted Material

- 1 Aluminum port, Teflon coated polyimide diaphragm and Buna-N O-Ring
- 4 316 Stainless steel port, Teflon coated polyimide diaphragm and 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
- I ¾" Conduit box with terminal strip
- M Gold electrical contacts for extremely low current applications
- N CENELEC approval
- R 72" Electrical free leads
- W Stainless steel screws — exterior

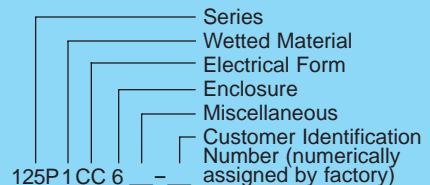
#### Special (Consult representative or factory)

- Pressure port per MS33649E4
- Electrical connection per MS33678-10SL-3P
- Non-catalog set point, deadband and/or proof pressure
- Operating temperature capability from -65°F to +350°F

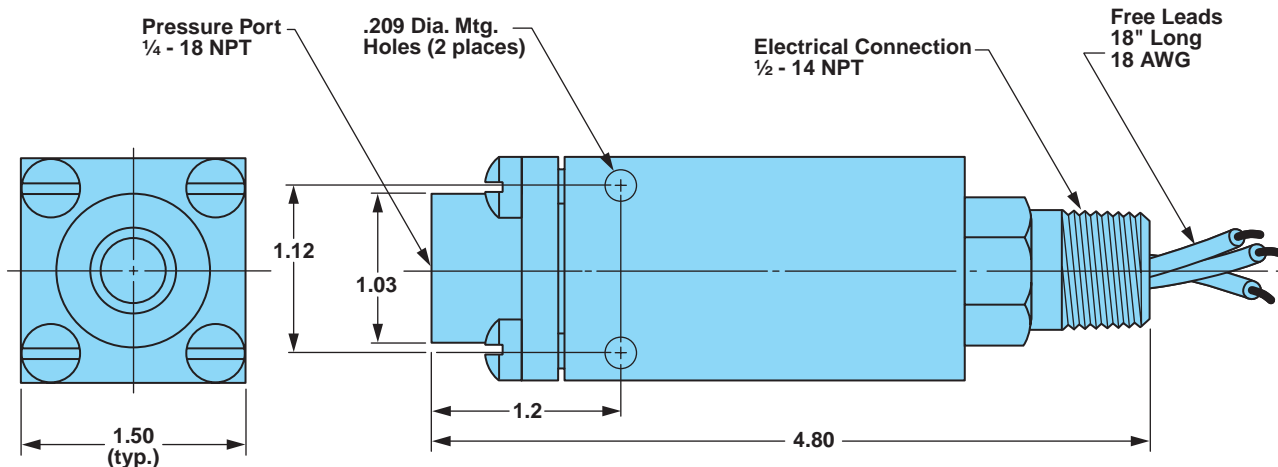
## Ordering Procedure

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

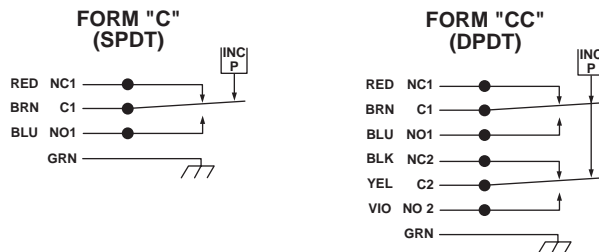
## Example



Envelope Dimensions



Electrical Form



Basic Principles of Design

