



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

DESCRIPTION

A sealed piston sensor with a Nega-Rate® Belleville disc spring makes this switch well suited for high impulse hydraulic applications.

Operating Pressure Data

| Series | Fixed Set Point Range | | Deadband (minimums) | Maximum Recommended System Pressure | | Proof Pressure | |
|--------|-----------------------|--------------|---------------------|-------------------------------------|-----------|----------------|-----------|
| | Increasing | Decreasing | | Hydraulic | Pneumatic | Hydraulic | Pneumatic |
| 225P | 45 to 450 | 15 to 405 | 30 or 10% | 5000 | 3000 | 7500 | 7500 |
| 225P | 450 to 3000 | 250 to 2700 | 160 or 10% | 5000 | 3000 | 7500 | 7500 |
| 225PP | 3001 to 7500 | 2701 to 6750 | 10% | 10,000* | 5000 | 15,000** | 7500 |

All values given in psig.

*Diminished safety factor equal to approximately 2:1

**Diminished safety factor equal to approximately 1.3:1

Standard Specifications

Deadband (Differential)

The deadband can be selected anywhere from the minimum tabulated to a maximum of 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 and piston, Teflon seal 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

■ Stainless steel Aminco port with 9/16" - 18 UNF-3B THD

Ordering Procedure

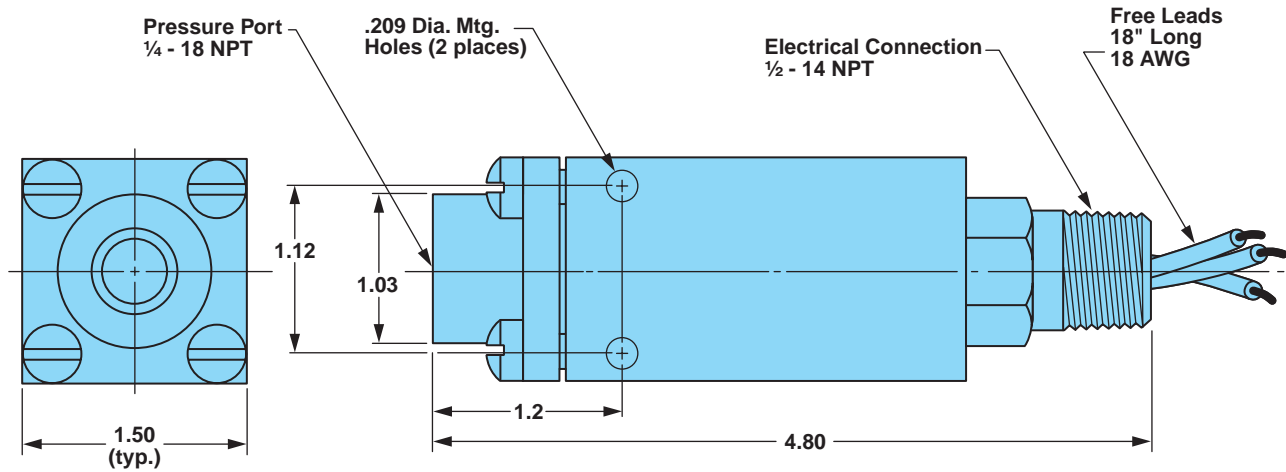
- Specify set point, increasing or decreasing
- Specify deadband if pertinent and if not, specify as 'open'
- Specify media
- Insert available option number or letter designation as required

Example

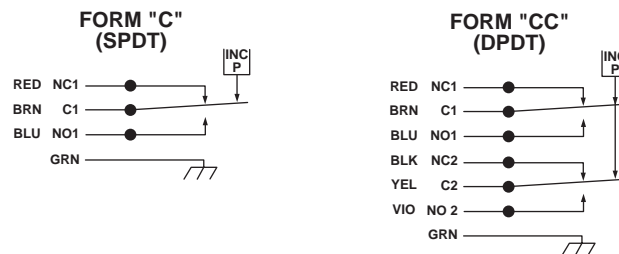
225P 1 CC 6 _ _ _

Series
Wetted Material
Electrical Form
Enclosure
Miscellaneous
Customer Identification Number (numerically assigned by factory)

Envelope Dimensions



Electrical Form



Basic Principles of Design

