



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

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. 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 10 ounces

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 5 amps 125, 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC

CC 5 amps 125, 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

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

W Stainless steel screws — exterior

X CSA Certified

Special (Consult representative or factory)

■ Pressure port per MS33649E4

■ Electrical connection per MS33678-10SL-3P

■ Non-catalog set point, deadband and/or proof pressure

■ 11 amp 125/250 VAC electrical rating

■ Stainless steel Aminco port with ⅛" - 18 UNF-3B THD

■ Operating temperature capability from -65°F to +350°F

Ordering Procedure

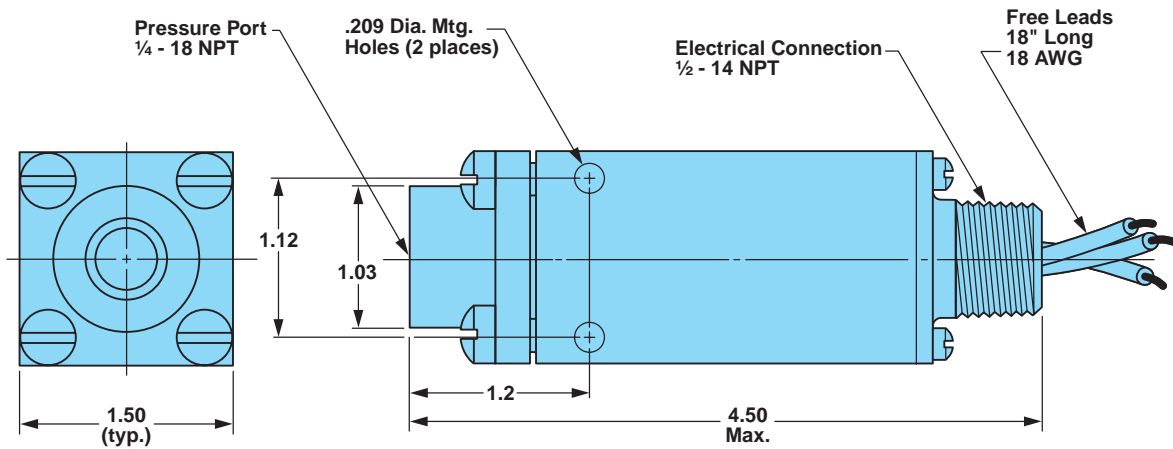
- Specify set point, increasing or decreasing
- Specify deadband if pertinent and if not, specify as 'open'
- Specify media
- Insert available option number or letter as required

Example

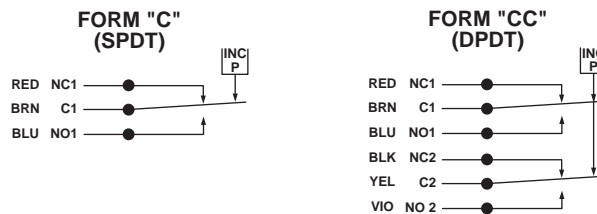
225P 1 CC 3 _ _ _

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

Envelope Dimensions



Electrical Form



Basic Principles of Design

