

Neo-Dyn® Series 225P Pressure Switch/Tamper Proof

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

Operating Pressure Data

Series	Fixed Set Point Range		Minimum Deadband (Whichever is greater)	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 assembly listed by Underwriters' Laboratories, Inc., Factory Mutual and CSA International

Electrical Connection

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

Pressure Connection

¼ 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. See Electrical Assembly specification sheet for Temperature Class Ratings.

Shipping Weight

Approximately 1 pound



Ordering Sequence — Select desired option for each category

OPTIONS

Set Points

225P between 15 psig dec. and 450 psig inc. (1.0 bar dec. and 31 bar inc.)
225P between 250 psig dec. and 3000 psig inc. (17 bar dec. and 207 bar inc.)
225PP between 2701 psig dec. and 7500 psig inc. (186 bar dec. and 517 bar inc.)

Wetted Material

1 Aluminum port and piston, Teflon seal and Buna-N O-Ring

Electrical Form

C 11 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC;
.5 amp resistive at 125 VDC
CC 11 amp, ¼ hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC;
.5 amp resistive at 125 VDC

Enclosure

6 Explosion proof, hermetically-sealed electrical assembly, leads factory sealed, P/N 057-0770 (C Form) and P/N 057-0771 (CC Form); **Underwriters' Laboratories, Inc.** listed (File E56677), **CSA International** certified (File LR34146), and **Factory Mutual** approved (File J.I.1R5A9.AE) for Division 1 and 2; Class I, Groups A, B, C and D; Class II, Groups E, F and G Hazardous Locations; NEMA Type 7 and 9.

Miscellaneous

A Epoxy paint exterior — extra protection for severe environments
B Viton O-Ring
C EPR O-Ring
I ¾ NPT Conduit box with terminal strip (Groups C & D only, not available with N option)
M Gold electrical contacts for extremely low current applications
N ATEX approval with CE Mark
R 72" Electrical free leads
W Stainless steel screws

Special (Consult representative or factory)

- Pressure port per MS33649E4
- Electrical connection per MS33678-10SL-3P
- Non-catalog set point, deadband and/or proof pressure
- Media temperature capability from -65°F to +350°F
- Stainless steel Aminco port with ⅞" - 18 UNF-3B THD

Ordering Procedure

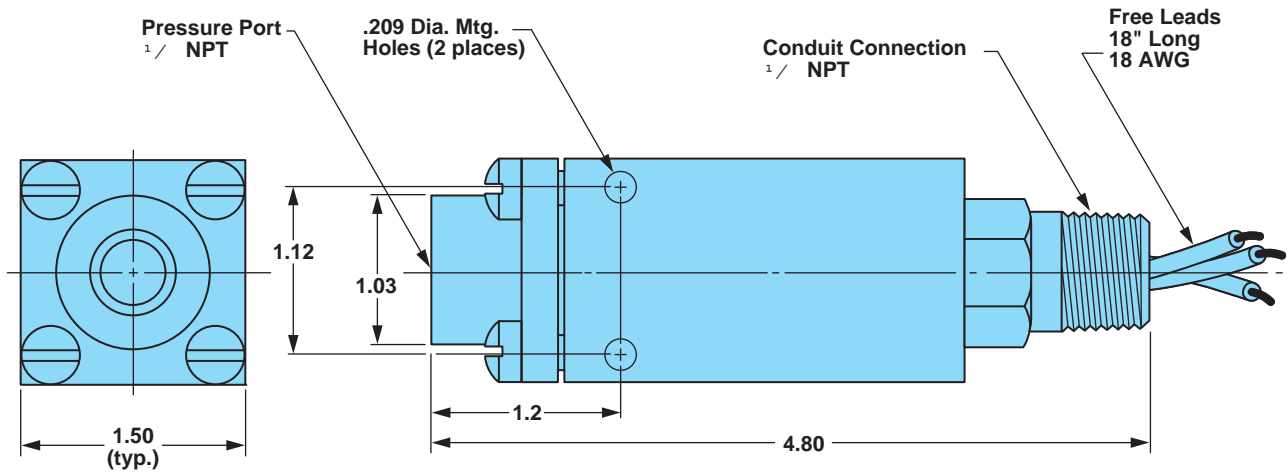
- Specify set point, increasing or decreasing
- Specify deadband
- Specify media
- Insert available option number or letter designation as required

Example

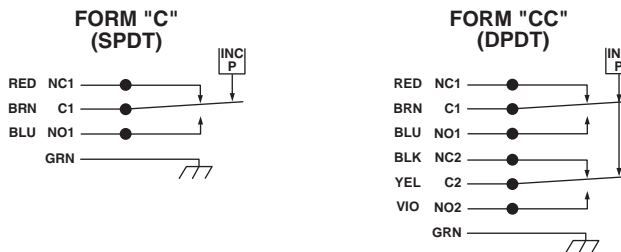
225P 1 CC 6 _ _ _

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

Envelope Dimensions



Electrical Form



Basic Principles of Design

