

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.

Operating Pressure Data

Series	Fixed Set Point Range Non-Adjustable (psig)		Deadband (psi)		Maximum Recommended System Pressure (psig)		Proof Pressure (psig)	
	Increasing	Decreasing	Minimum	Maximum	Hydraulic	Pneumatic	Hydraulic	Pneumatic
225P	45 to 450	15 to 405	10% of increasing set point but no less than 30 psi	45% of the Increasing set point	5,000	3,000	7,500	7,500
	450 to 3000	250 to 2700	10% of increasing set point but no less than 160 psi					
225PP	3001 to 7500	2701 to 6750	10% of increasing set point		10,000*	5,000**	15,000***	

*Diminished safety factor equal to approximately 2:1. CE mark prohibited due to diminished factor of safety.

**Pneumatic set points not recommended above 5000 psig

***Diminished safety factor equal to approximately 1.3:1. CE mark prohibited due to diminished factor of safety.

Standard Specifications

Electrical

Snap action electrical switch recognized by Underwriters' Laboratories, Inc. and CSA International

Electrical Connection

1/2 NPT male conduit connection with PVC insulated 18 AWG, 18" long leads

Pressure Connection

1/4 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)

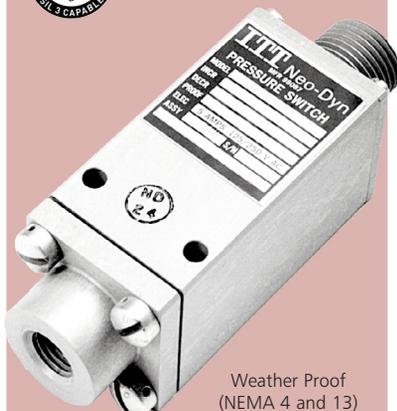
*Temperature limits change with O-Ring selection

Shipping Weight

Approximately 10 ounces



Order Miscellaneous Option "D"



Weather Proof (NEMA 4 and 13)

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, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC

CC 11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC; .5 amp resistive at 125 VDC

Enclosure

3 Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13, IP65

Miscellaneous

A Epoxy paint exterior — extra protection for severe environments

B Viton O-Ring

C EPR O-Ring

D SIL approval and marking, per IEC61508 (includes FMEA report)

M Gold electrical contacts for extremely low current applications

R 72" Electrical free leads

U M20 x 1.5 Electrical Conduit Adapter

W Stainless steel screws — exterior

X CSA Certified and CE Mark (Not available for 225PP)

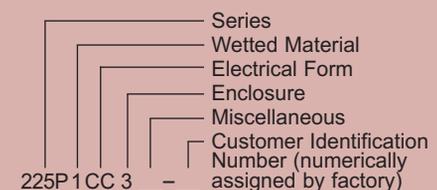
Special (Consult representative or factory)

- Pressure port per MS33649E4
- Non-catalog set point, deadband and/or proof pressure
- Stainless steel Aminco port with 9/16" - 18 UNF-3B THD
- Media 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

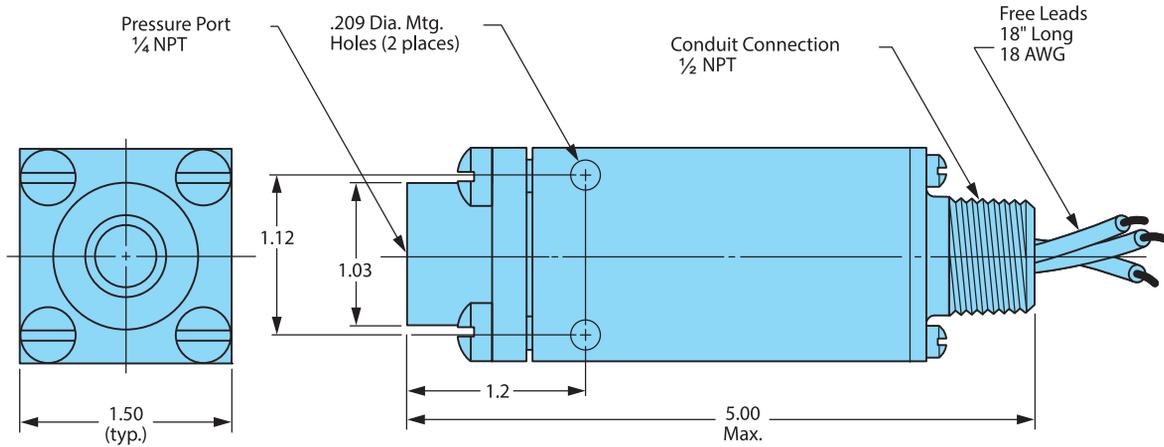
Example



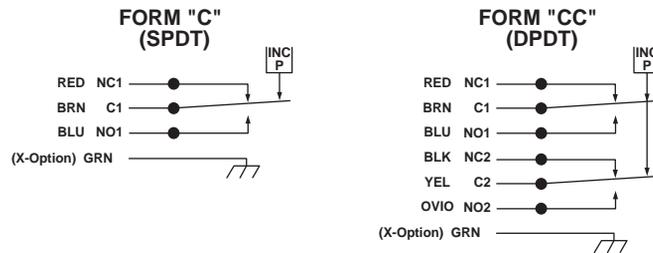
Series 225P Pressure Switch/Tamper Proof

Field Adjustable
15 to 7500 psig

Envelope Dimensions



Electrical Form



Basic Principles of Design

