

DESCRIPTION

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.

Explosion Proof Hermetically Sealed (NEMA 4X, 7, 9 and 13)

Operating Pressure Data

		Fixed Set Point Range		Deadband	Maximum Recommended System Pressure		Proof Pressure		
	Series	Increasing	Decreasing	(minimums)	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

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. See Electrical Assembly specification sheet for Temperature Class Ratings.

Shipping Weight

Approximately 1 pound

Ordering Sequence — Select desired option for each category

OPTIONS

Set Points225Pbetween 15psig dec. and 450psig inc.(1.0bar dec. and 31bar inc.)225Pbetween 250psig dec. and 3000psig inc.(17bar dec. and 207bar inc.)225PPbetween 2701psig dec. and 7500psig inc.(186bar dec. and 517bar 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 ³/₄ NPT Conduit box with terminal strip (Groups C & D only)
- M Gold electrical contacts for extremely low current applications
- N ATEX approval with CE Mark
- R 72" Electrical free leads
- W Stainless steel screws

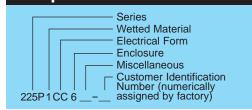
Special (Consult representative or factory)

- 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 %16" 18 UNF-3B THD

Ordering Procedure

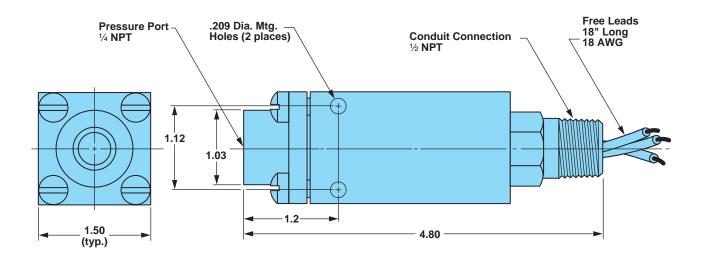
- Specify set point, increasing or
- decreasing
- Specify deadband
- Specify media
- Insert available option number or letter designation as required

Example

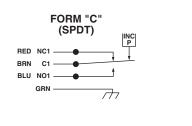


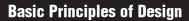
Series 225P

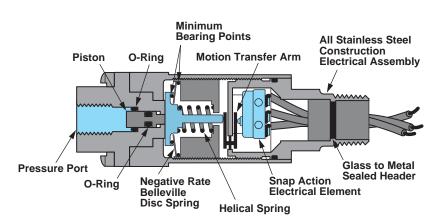
Envelope Dimensions



Electrical Form









FORM "CC" (DPDT)

RED NC1

YEL C2

VIO NO2

BRN C1

BLU NO1 BLK NC2 ŧ

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