



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

### DESCRIPTION

Compact adjustable pressure switch for low to mid-range process applications. Efficient Nega-Rate® Belleville disc spring for set point stability and vibration resistance. Stainless steel wetted materials and hermetically sealed, explosion-proof electricals make this switch ideally suited for hazardous and corrosive media or environments.

### Operating Pressure Data

Adjustable Range Number	Adjustable Set Point Range		Deadband (approximate)	Maximum Recommended System Pressure	Proof Pressure
	Increasing	Decreasing			
8	3 to 30	1 to 28	2	1350	2000
9	20 to 80	15 to 75	5	1350	2000
0	80 to 130	67 to 117	13	1350	2000
1	50 to 250	30 to 230	20	5000	7500
2	200 to 400	175 to 375	25	5000	7500
4	375 to 725	330 to 680	45	5000	7500
6	700 to 1500	620 to 1420	80	6500	7500
7	1500 to 2300	1400 to 2200	100	6500	7500

All values given in psig.

### Standard Specifications

#### 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 +250°F  
(-40°C to +121°C)

\* Temperature limits change with O-Ring selection. See Electrical Assembly specification sheet for Temperature Class Ratings.

#### Adjustment

Internal, slotted adjustment nut with range scale

#### Shipping Weight

Approximately 20 ounces

### Ordering Sequence — Select desired option for each category

#### OPTIONS

##### Wetted Material

- 4 316 stainless steel port and diaphragm, Buna-N O-Ring
- 5 316 stainless steel port and diaphragm heliarc welded
- 7 Hastelloy C port and diaphragm heliarc welded

##### Adjustable Range

- 8 1 psig dec. to 30 psig inc. (0.1 bar dec. to 2.1 bar inc.)
- 9 15 psig dec. to 80 psig inc. (1.0 bar dec. to 5.5 bar inc.)
- 0 67 psig dec. to 130 psig inc. (4.6 bar dec. to 9.0 bar inc.)
- 1 30 psig dec. to 250 psig inc. (2.1 bar dec. to 17.2 bar inc.)
- 2 175 psig dec. to 400 psig inc. (12.1 bar dec. to 27.6 bar inc.)
- 4 330 psig dec. to 725 psig inc. (22.8 bar dec. to 50.0 bar inc.)
- 6 620 psig dec. to 1500 psig inc. (42.7 bar dec. to 103.4 bar inc.)
- 7 1400 psig dec. to 2300 psig inc. (96.5 bar dec. to 158.6 bar inc.)

##### 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
- E ¼" - 20 SAE Female Port
- G ½ NPT Female Port
- H Stainless steel body
- I ¾ NPT conduit box with terminal strip (Groups C & D only)
- J Annealed stainless steel port screws for H<sub>2</sub>S environments — Consult factory for reduced system and proof pressure ratings
- M Gold electrical contacts for extremely low current applications
- N ATEX approval with CE Mark
- O Cleaned for Oxygen Service
- R 72" Electrical free leads

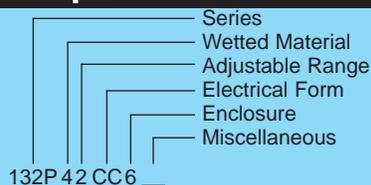
#### Special (Consult representative or factory)

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

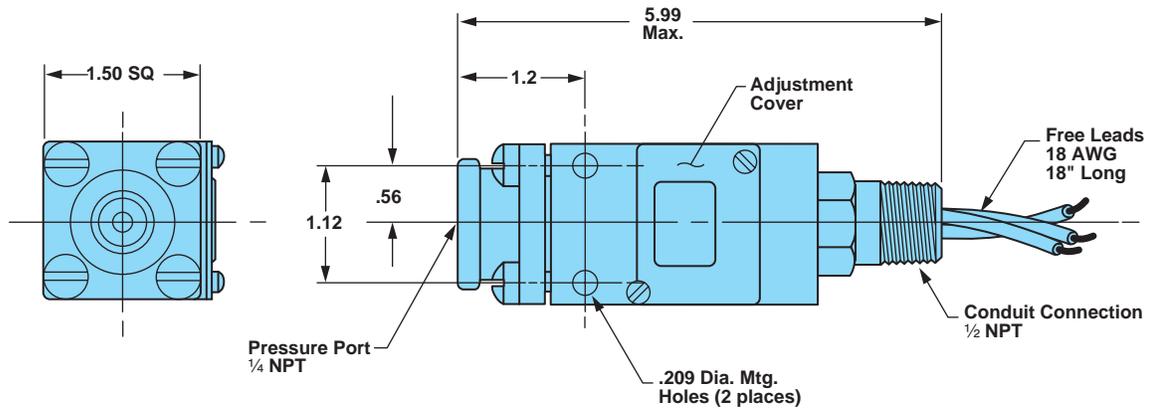
### Ordering Procedure

- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

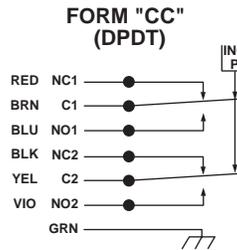
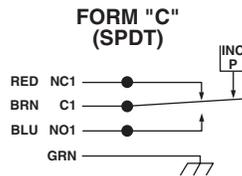
### Example



Envelope Dimensions



Electrical Form



Basic Principles of Design

