

**Explosion Proof  
Hermetically Sealed  
(NEMA 7 and 9)**

## DESCRIPTION

Compact, versatile pressure switch well suited for hazardous or corrosive atmospheres. For low to mid-range pressure applications. Features efficient Nega-Rate® Belleville disc spring for superior set point stability and is field adjustable using 1/8" allen wrench through the port. Once adjustments are made and the switch is installed, it becomes tamper proof.

## Operating Pressure Data

Adjustable Range Number	Adjustable Set Point Range		Deadband (approximate)	Maximum Recommended System Pressure	Proof Pressure
	Increasing	Decreasing			
1	2 to 12	1 to 11	1	250	500
2	10 to 30	7 to 27	3	600	1000
3	30 to 50	25 to 45	5	600	1000
4	50 to 70	44 to 64	6	600	1000
5	70 to 120	60 to 110	10	600	1000
6	120 to 170	105 to 155	15	600	1000

All values given in psig.

## Standard Specifications

### Electrical

Snap action electrical switch listed by Underwriters' Laboratories, Inc., Factory Mutual and CSA Testing Laboratories

### Electrical Connection

1/2" - 14 NPT male conduit connection with PVC insulated 18 AWG leads 18" long

### Pressure Connection

1/4" - 18 NPT Male

### 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

### Adjustment

1/8" allen wrench through port

### Shipping Weight

Approximately 14 ounces

## Ordering Sequence — Select desired option for each category

### OPTIONS

#### Wetted Material

- 1 Aluminum port, Teflon coated polyimide diaphragm, Buna-N O-Ring
- 4 316 stainless steel port, Teflon coated polyimide diaphragm, Buna-N O-Ring

#### Adjustable Range

- 1 1 psig dec. to 12 psig inc. (0.1 bar dec. to 0.8 bar inc.)
- 2 7 psig dec. to 30 psig inc. (0.5 bar dec. to 2.1 bar inc.)
- 3 25 psig dec. to 50 psig inc. (1.7 bar dec. to 3.4 bar inc.)
- 4 44 psig dec. to 70 psig inc. (3.0 bar dec. to 4.8 bar inc.)
- 5 60 psig dec. to 120 psig inc. (4.1 bar dec. to 8.3 bar inc.)
- 6 105 psig dec. to 170 psig inc. (7.2 bar dec. to 11.7 bar inc.)

#### Electrical Form

- C 11 amps, 1/4 hp 125, 250 VAC; 5 amps resistive, 3 amps inductive at 28 VDC; .5 amps resistive at 125 VDC
- C 11 amps, 1/4 hp 125, 250 VAC; 5 amps resistive, 3 amps inductive at 28 VDC; .5 amps resistive at 125 VDC

#### Enclosure

- 6 Explosion proof • factory sealed • hermetically sealed electrical assembly P/N 057-0030 (C Form); P/N 057-0057 (CC Form). Underwriters' Laboratories, Inc. listed (file #E56677) or Canadian Standards Association certified (file #34146) for Division 1 and 2; Class I, Groups A, B, C and D; Class II, Groups E, F and G hazardous locations (NEMA 7 and 9)

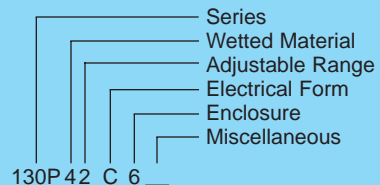
#### Miscellaneous

- A Epoxy paint exterior — extra protection for severe environments
- B Viton O-Ring
- C EPR O-Ring
- H 316 Stainless steel body
- I 3/4" Conduit box with terminal block — (Conduit box does not meet Group A for Division 1 & 2, class 1)
- M Gold electrical contacts for extremely low current applications
- N CENELEC approved electrical assembly
- Q Canadian registration (CRN) (Consult factory for reduced system pressures)
- R 72" Electrical free leads
- S Stainless steel diaphragm — (Wetted Material 4 only)

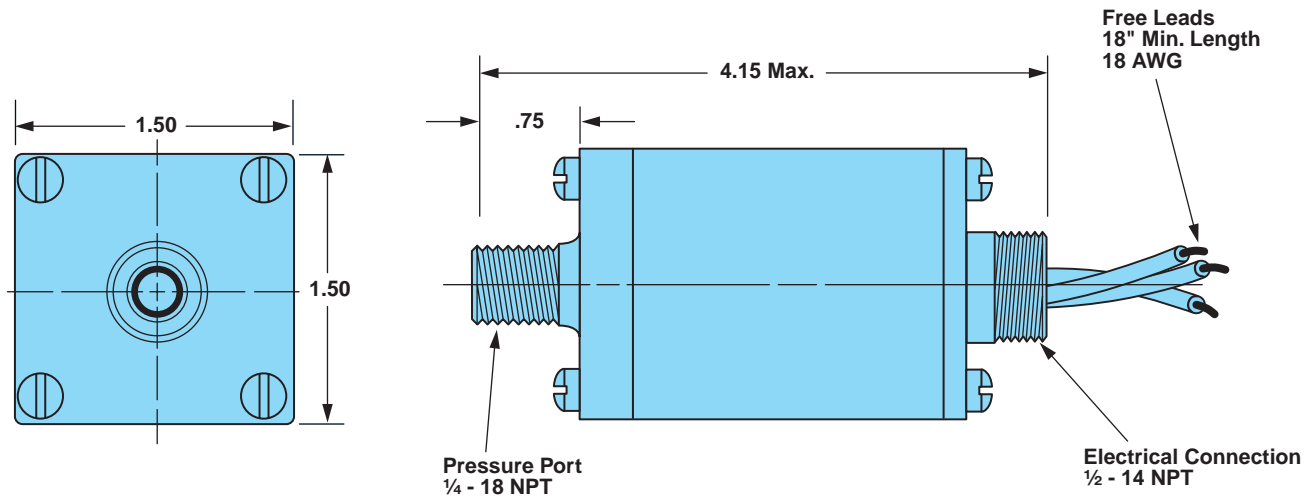
## Ordering Procedure

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

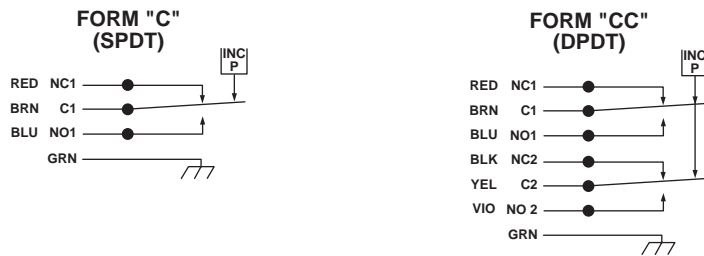
## Example



**Envelope Dimensions**



**Electrical Form**



**Basic Principles of Design**

