

## Neo-Dyn® Series 110P Pressure Switch/Internal Adjustment

Sensitive Nega-Rate® Belleville spring adjustable pressure switch for low pressure applications.

### Operating Pressure Data

| Adjustable Range Number | Adjustable Set Point Range                    |                                             | Deadband (approximate) | Maximum Recommended System Pressure | Proof Pressure |
|-------------------------|-----------------------------------------------|---------------------------------------------|------------------------|-------------------------------------|----------------|
|                         | Increasing                                    | Decreasing                                  |                        |                                     |                |
| 2                       | 10" H <sub>2</sub> O to 100" H <sub>2</sub> O | 7" H <sub>2</sub> O to 97" H <sub>2</sub> O | 3" H <sub>2</sub> O    | 300                                 | 500            |
| 4                       | 3 to 15                                       | 2.75 to 14.75                               | .25*                   | 300                                 | 500            |

All values given in psig.

\*Deadband increases to .4 psi (approx.) in "CC6" configuration.

### Standard Specifications

#### Electrical

Snap action electrical switch assemblies, Part Numbers 057-0770 & 057-0772 (Form C) and 057-0771 & 057-0773 (Form CC), are listed by Underwriters' Laboratories, Inc., FM Approvals, CSA International and NCC (INMETRO). See the miscellaneous option N for additional listings.

#### Electrical Connection

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

#### Pressure Connection

Wetted Material 1  
1/4 NPT Female

Wetted Material 4  
1/2 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.

#### Adjustment

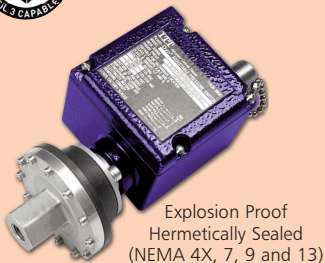
Concealed wrench flat adjustment with range scale

#### Shipping Weight

Approximately 3 pounds



Order Miscellaneous Option "D"



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

#### OPTIONS

##### Wetted Material

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

##### Adjustable Range

- 2 7" H<sub>2</sub>O dec. to 100" H<sub>2</sub>O inc. (17 millibar dec. to 249 millibar inc.)
- 4 2.75 psig dec. to 15 psig inc. (0.2 bar dec. to 1.0 bar inc.)

##### Electrical Form

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

##### Enclosure

- 6 Includes an explosion proof, hermetically-sealed electrical assembly. EX d IIC. Division 1 and 2, Class I, Groups A, B, C, and D; Class II, Groups E, F, and G. NEMA 4X, 7, and 9; IP66. Leads are factory sealed and Pressure Switches are Dual Seal Certified.

##### 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)
- F Fire fuse — for fire-tested equipment (wetted material 4 only: not available with option G)
- G 1/2 NPT male port (wetted material 4 only)
- I 3/4 NPT conduit box with terminal strip (Groups C & D only, not available with N option)
- M Gold electrical contacts for extremely low current applications (1 Amp at 125 VAC; 1 Amp Res, 0.5 Amp Ind. at 28 VDC)
- N ATEX and IECEx with CE Mark
- R 72" Electrical free leads
- S Stainless steel diaphragm (wetted material 4 only)
- W Stainless steel screws — exterior (standard with wetted material 4)

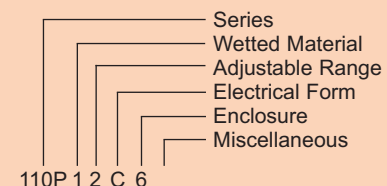
#### Special (Consult representative or factory)

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

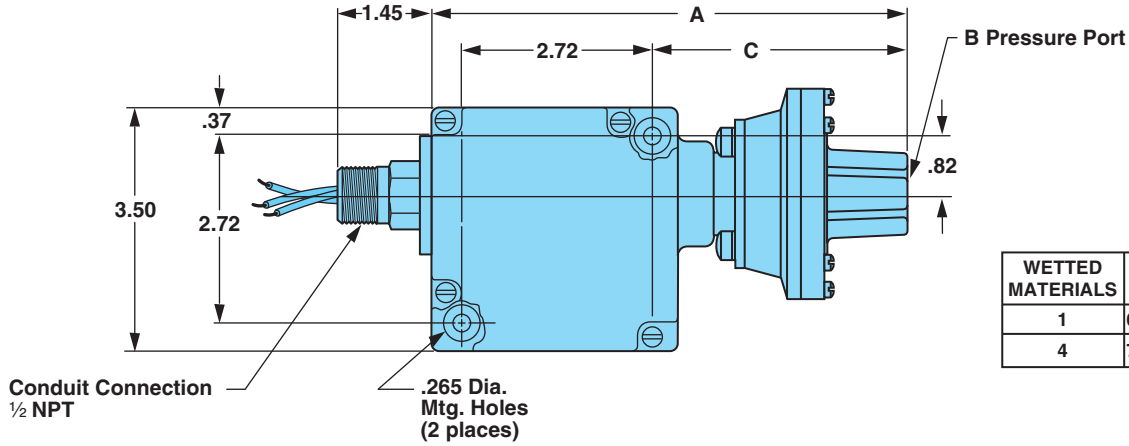
### Ordering Procedure

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

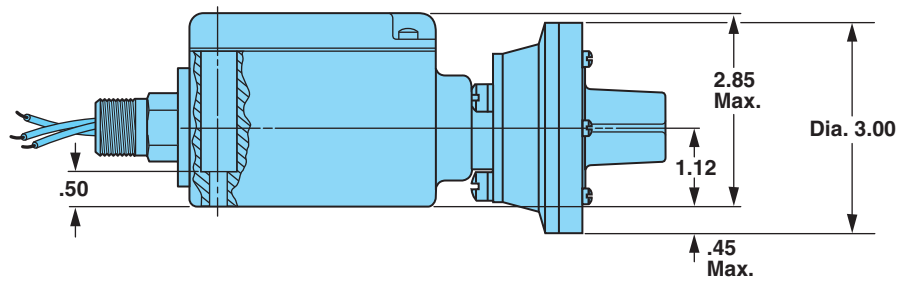
### Example



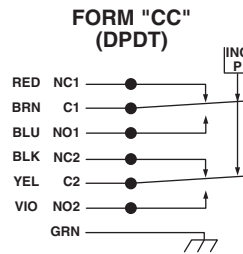
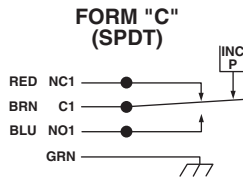
Envelope Dimensions



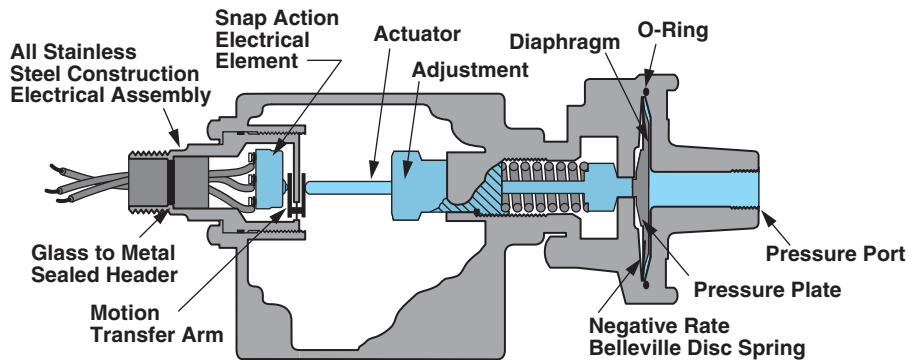
| WETTED MATERIALS | A         | B     | C        |
|------------------|-----------|-------|----------|
| 1                | 6.75 Max. | ¼ NPT | 3.7 Max. |
| 4                | 7.15 Max. | ½ NPT | 4.1 Max. |



Electrical Form



Basic Principles of Design



AER0935\_13 7/13

Specifications and dimensions subject to change.

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