

# Neo-Dyn® Series 155P/155PP Differential Pressure Switch



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

## DESCRIPTION

Mid-range differential pressure switch. Compact design. Has efficient Nega-Rate® Belleville disc spring sensing mechanism. Settings not affected by system pressure changes.

## Operating Pressure Data

Series	Fixed Set Point Range		Maximum Recommended System Pressure	Proof Pressure		
	Increasing	Decreasing		Simultaneous	High/Low	Low/High
155P	5 to 75 psid	3 to 67 psid	Up to 650	1000	1000	400
155PP	76 to 120 psid	68 to 102 psid	Up to 650	1000	1000	400

All values given in psig unless otherwise stipulated.

## Standard Specifications

### Deadband (Differential)

The deadband can be selected anywhere from 2 psi or 10% (whichever is greater) to 45% of the set point.

### Electrical

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

### Electrical Connection

½" - 14 NPT male conduit connection with PVC insulated 18 AWG leads 18" long

### Pressure Connections

⅛" - 27 NPT Female

### Temperature Range

Ambient: -30°F to +160°F  
(-34°C to +71°C)

Media: -30°F to +160°F  
(-34°C to +71°C)

### Shipping Weight

1 pound

## Ordering Sequence — Select desired option for each category

### OPTIONS

#### Wetted Material

**1** Aluminum ports, Teflon coated polyimide diaphragm, Buna-N O-Rings

#### Electrical Form

**C** 11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC

**CC** 11 amps and ¼ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 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

**M** Gold electrical contacts for extremely low current applications

**N** CENELEC approval

**R** 72" Electrical free leads

**W** Stainless steel screws — exterior (Standard with Option A)

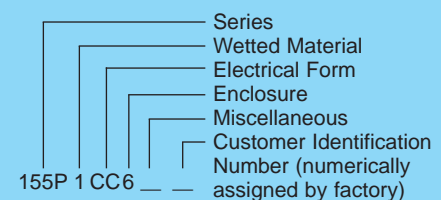
### Special (Consult representative or factory)

- Adjustment (±5 psi of set point)
- Non-catalog set point, deadband and/or proof pressure
- Operating temperature capability from -65°F to +350°F
- Chemical seals installed

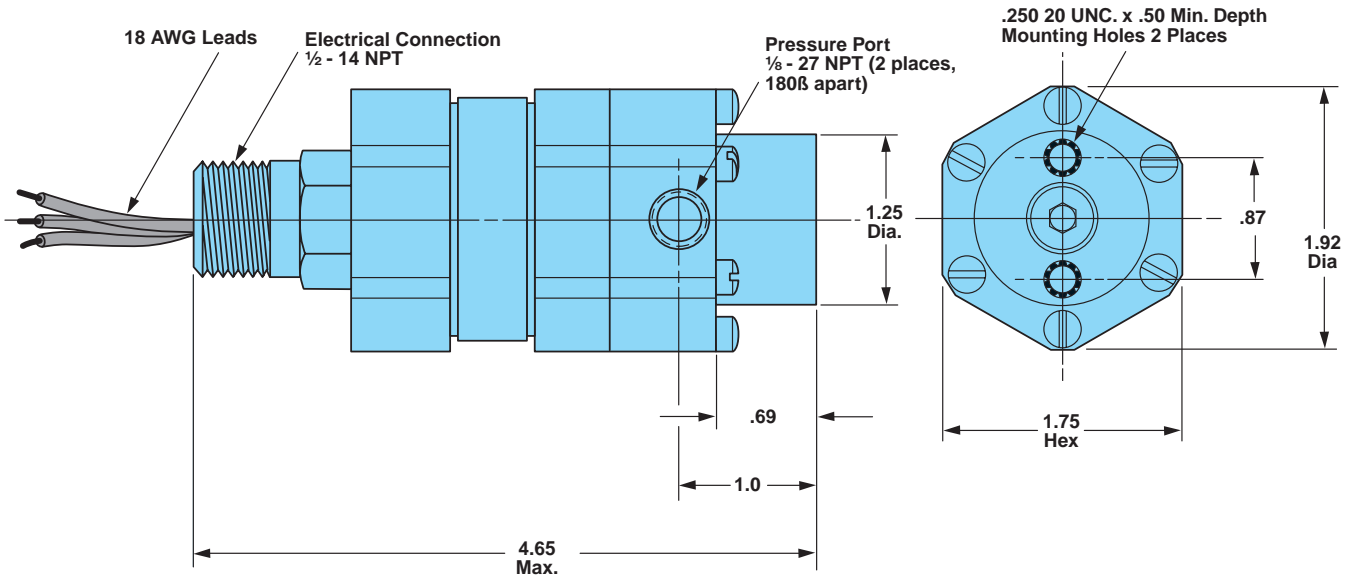
## Ordering Procedure

- Specify set point, increasing or decreasing
- Specify deadband if pertinent and if not, specify as 'open'
- Specify system pressure
- Specify media
- Insert available option number or letter designation as required

## Example



Envelope Dimensions



Electrical Form



Basic Principles of Design

