

# Neo-Dyn<sup>®</sup> Series 131P Pressure Switch/Internal Adjustment

Compact, adjustable pressure switch for pneumatic and low impulse hydraulic process applications. Using our efficient Nega-Rate<sup>®</sup> Belleville disc spring, we offer superior set point stability and vibration resistance. The 131P series pressure switch also has a selectable deadband feature which can be preset to fit most any application.

Operating Pressure Data													
Adjustable Range	Adjustable Set Point Range		Selectable Deadband at a	Default	Maximum Recommended	Proof							
Number	Increasing	Decreasing	Specified Set Point	Deadband (approx.)	System Pressure	Pressure							
2	*	1 to 24	1 to 1.5	1.4	1000	2000							
3	*	17 to 42	3 to 5	4	1000	2000							
4	*	1 to 50	7 to 11	9	1000	2000							
5	*	45 to 100	7 to 11	9	1000	2000							
6	*	90 to 150	9 to 17	13	1000	2000							
7	*	140 to 200	11 to 21	16	1000	2000							

All values given in psig unless otherwise noted. \* Add selected deadband to decreasing pressure range

# Standard Specifications

### **Electrical Listings**

Snap action electrical switch 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 and 1/2 NPT Male

## **Temperature Range\***

Ambient:	-40°F to +180°F
	(-40°C to +82°C
Media:	-40°F to +300°F
	$(-10^{\circ}\text{C} \text{ to } + 110^{\circ}\text{C})$

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

### Adjustment

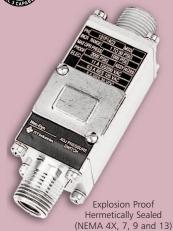
Internal, slotted adjustment wheel

## **Shipping Weight**

Approximately 20 ounces



Order Miscellaneous Option "D'



# Ordering Sequence — Select desired option for each category

# OPTIONS

## Wetted Material

- Aluminum port, polyimide diaphragm, Buna-N O-Ring 316 stainless steel port, polyimide diaphragm, Buna-N O-Ring

## Adjustable Range

Adjustable Range									
2	1 psig dec.	to	25 psig inc.	(.069 bar dec.	to	1.72 bar inc.)			
3	17 psig dec.	to	46 psig inc.	(1.17 bar dec.	to	3.17 bar inc.)			
4	1 psig dec.	to	59 psig inc.	(.069 bar dec.	to	4.07 bar inc.)			
5	45 psig dec.	to	109 psig inc.	(3.10 bar dec.	to	7.51 bar inc.)			
6	90 psig dec.	to	163 psig inc.	(6.21 bar dec.	to	11.2 bar inc.)			
7	140 psig dec.	to	216 psig inc.	(9.65 bar dec.	to	14.9 bar inc.)			
1	140 psig dec.	το	216 psig inc.	(9.65 bar dec.	το	14.9 bar ind			

#### **Electrical Form**

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

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

#### Enclosure

Explosion proof, hermetically-sealed electrical assembly, EX d IIC. Part Numbers 057-0770 & 057-0772 (Form C) and 057-0771 & 057-0773 (Form CC). Agency listings include Underwriters Laboratories, Inc., CSA International, Factory Mutual, and Inmetro. 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

- Epoxy paint exterior extra protection for severe environments Viton O-Ring
- В
- EPR O-Ring
- CD SIL approval and marking, per IEC61508 (includes FMEA report)
- 7/16" 20 SAE Female Port 1/2 NPT Female Port
- Ē
- н 316 stainless steel body (Wetted Material 4 only)
- 3/4 NPT conduit box with terminal strip (Groups C & D only, not available with N option) Т J Annealed stainless steel port screws for H<sub>2</sub>S environments - Consult factory
- for reduced system and proof pressure ratings (Not available with Z option)
- М Gold electrical contacts for extremely low current applications
- Ν ATEX and IECEx with CE Mark
- 72" Electrical free leads R S V
- Stainless steel diaphragm
- 1/4 NPT male port
- z Mounting bracket kit (Not available with J option)

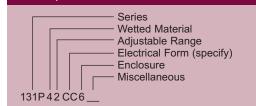
Special (Consult representative or factory)

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
- When a selectable DB is desired, stipulate DB within allowed range

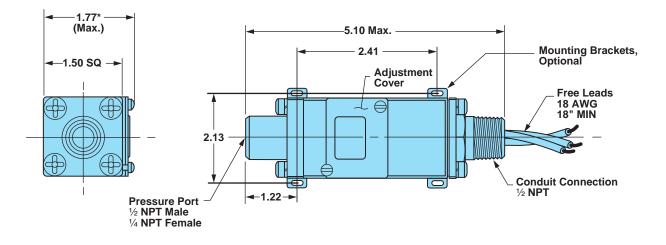
# Example



Field Adjustable 1 to 216 psig

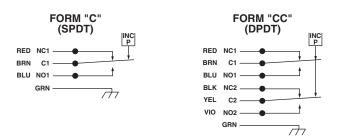
# Series 131P

## Envelope Dimensions

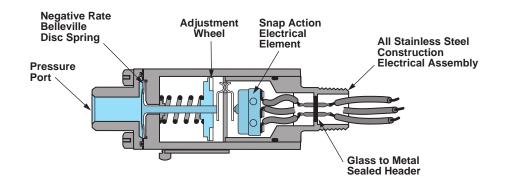


\*1.90 Max. with Mounting Bracket

# **Electrical Form**



# Basic Principles of Design



Specifications and dimensions subject to change.

