

DESCRIPTION

Compact, adjustable pressure switch for high pressure pneumatic and low impulse hydraulic process applications. Using our Nega-Rate® 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	Default	Maximum Recommended	Proof			
Number	Increasing	Decreasing	Deadband	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.

Standard Specifications

Electrical

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

Electrical Connection

1/2" - 14 NPT male conduit connection

Pressure Connection

1/4" - 18 NPT Female and 1/2" - 14 NPT Male

Temperature Range*

Ambient: -40°F to +180°F

(-40°C to +82°C)

-40°F to +300°F Media:

(-40°C to +149°C)

* Temperature limits change with O-Ring selection

Adjustment

Internal, slotted adjustment wheel

Shipping Weight

Approximately 20 ounces

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

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 psia dec. to	216 psia inc.	(9.65 bar dec. to	14.9 bar inc.)

Electrical Form

11 amps 1/4 hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC;

.5 amps resistive 125 VDC 11 amps ½ hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC

Enclosure

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

Epoxy paint exterior — extra protection for severe environments Viton O-Ring

EPR O-Ring

SAA Approval
7/16" - 20 SAE Port
1/2" - 14 NPT Female Port

Stainless steel body

3/4" Conduit box with terminal strip

Annealed stainless steel port screws for H₂S environments — Consult factory for reduced system and proof pressure ratings

Gold electrical contacts for extremely low current applications

CENELEC approval 72" Electrical free leads

Stainless steel diaphragm 1/4" - 18 NPT male port

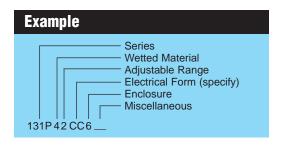
Mounting bracket kit

cial (Consult representative or factory)

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

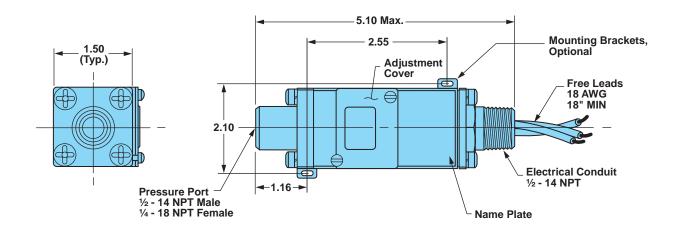
Ordering Procedure

- 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

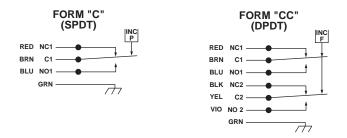


^{*} Add selected deadband to decreasing pressure range.

Envelope Dimensions



Electrical Form



Basic Principles of Design

