ITT
ENGINEERED FOR LIFE

Neo-Dyn® Series 122P8 Pressure Switch/Internal Adjustment

Compact, adjustable pressure switch for low to mid-range process applications. Efficient Nega-Rate® Belleville disc spring for set point stability and vibration resistance. Wide selection of wetted materials, 316 stainless steel body and interior, plus hermetically sealed explosion-proof electrical make this switch ideal for chemical process applications.

Operating Pressure Data

Adjustable Range Number	Adjustable Set Point Range		Deadband (approximate)	Maximum Recommended System Pressure	Proof Pressure
	Increasing	Decreasing			
2	3 to 30	1 to 28	2	1350	2000
4	20 to 80	15 to 75	5	1350	2000
0	80 to 130	67 to 117	13	1350	2000
5	50 to 250	30 to 230	20	4000*	6000*
6	200 to 400	175 to 375	25	4000*	6000*
7	375 to 725	330 to 680	45	4000*	6000*
8	700 to 1500	620 to 1420	80	4000*	6000*
9	1500 to 2300	1400 to 2200	100	4000*	6000*

All values given in psig.

* See Miscellaneous T higher pressures

Standard Specifications

Electrical
Snap action electrical switch assembly 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
1/2 NPT Female

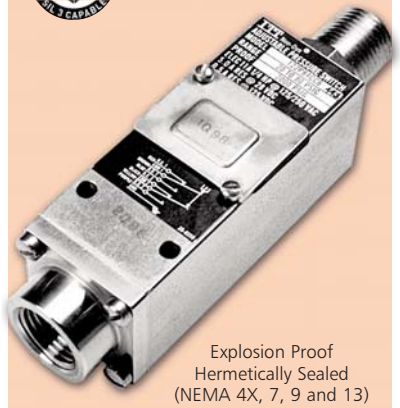
Temperature Range*
Ambient: -40°F to +180°F *(-40°C to +82°C)*
Media: -40°F to +250°F *(-40°C to +121°C)*

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

Adjustment
Internal, slotted adjustment nut with range scale

Shipping Weight
Approximately 2 pounds

Order Miscellaneous Option "D"



Explosion Proof Hermetically Sealed (NEMA 4X, 7, 9 and 13)

Ordering Sequence — Select desired option for each category

OPTIONS

Adjustable Range

2	1 psig dec.	to	30 psig inc.	*(0.1 bar dec.*	*to*	*2.1 bar inc.)*
4	15 psig dec.	to	80 psig inc.	*(1.0 bar dec.*	*to*	*5.5 bar inc.)*
0	67 psig dec.	to	130 psig inc.	*(4.6 bar dec.*	*to*	*9.0 bar inc.)*
5	30 psig dec.	to	250 psig inc.	*(2.1 bar dec.*	*to*	*17.2 bar inc.)*
6	175 psig dec.	to	400 psig inc.	*(12.1 bar dec.*	*to*	*27.6 bar inc.)*
7	330 psig dec.	to	725 psig inc.	*(22.8 bar dec.*	*to*	*50.0 bar inc.)*
8	620 psig dec.	to	1500 psig inc.	*(42.7 bar dec.*	*to*	*103.4 bar inc.)*
9	1400 psig dec.	to	2300 psig inc.	*(96.5 bar dec.*	*to*	*158.6 bar inc.)*

Electrical Form
C 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
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
6 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
D SIL approval and marking, per IEC61508 (includes FMEA report)
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
N ATEX and IECEx with CE Mark
R 72" Electrical free leads
T 6300 psig system, 9450 psig proof, 410 stainless steel screws (Range 5, 6, 7, 8 & 9 only)

Port Material
4 316 Stainless Steel
5 316 Stainless Steel — welded diaphragm (add 40)
7 Hastelloy C — welded Hastelloy diaphragm (add 70)
8 Monel
9 Monel — welded Inconel diaphragm (add 90)

Diaphragm
1 Polyimide
4 316 Stainless Steel
6 Tantalum
7 Hastelloy C
9 Inconel

Internal O-Rings
0 Welded (Port Material 5, 7 & 9 only)
2 Kalrez
3 Viton
5 EPR
8 Buna-N

Special (Consult representative or factory)
- Non-catalog adjustable range and/or set point and deadband

Ordering Procedure

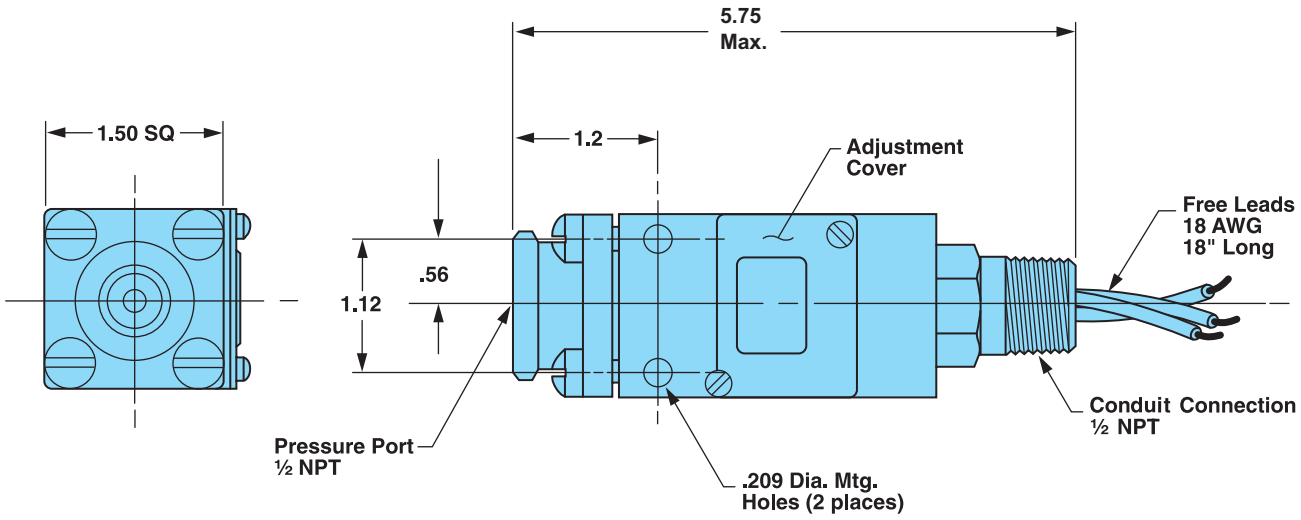
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

Example

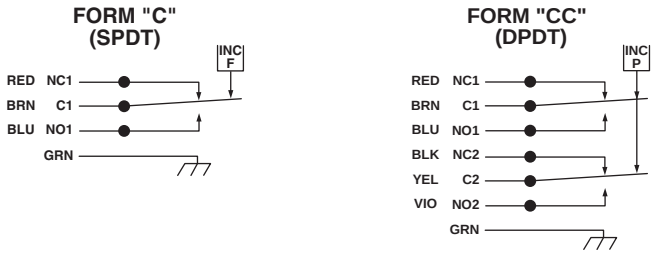
122P84C6__443

- Series
- Adjustable Range
- Electrical Form
- Enclosure
- Miscellaneous
- Port Material
- Diaphragm
- Internal O-Rings

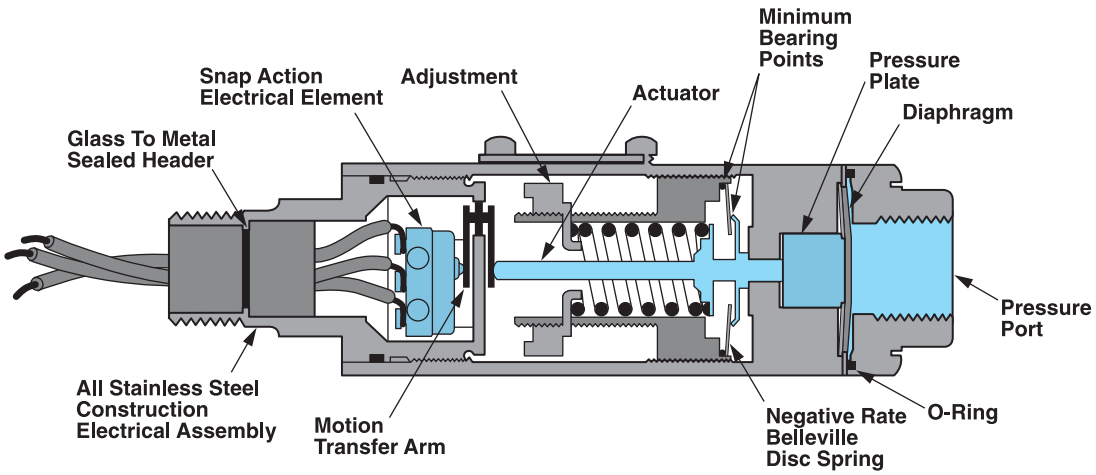
Envelope Dimensions



Electrical Form



Basic Principles of Design



Specifications and dimensions subject to change.