Neo-Dyn[®] Series 160P Differential Pressure Switch



DESCRIPTION

Mid-range, adjustable differential pressure switch. Efficient Nega-Rate[®] Belleville disc spring sensing mechanism. Weather proof enclosure and stable set points during system pressure changes makes this switch ideal for a wide variety of applications.

	Operating Pressure Data							
	Adjustable Range Number	Adjustable Set Point Range		Deadband	Maximum Recommended	Proof		
		Increasing	Decreasing	(approximate)	System Pressure	Pressure		
	2	1.1 to 15	.75 to 14.65	.35	300	500 Hi/Low 200 Low/Hi		
	4	1.5 to 18	.3 to 16.8	1.2	500	1000 Hi/Low 400 Low/Hi		
	6	5 to 60	2 to 57	3	500	1000 Hi/Low 400 Low/Hi		
	7	55 to 110	49 to 104	6	500	1000 Hi/Low 400 Low/Hi		

All values given in psid.

Standard Specifications

Electrical

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

Electrical Connection

1/2" - 14 NPT female conduit connection with terminal block

Pressure Connection

1/4" - 18 NPT Female

Temperature Range*

Ambient: -40°F to +180°F

 $(-40^{\circ}C \text{ to } +82^{\circ}C)$

Media: -40°F to +250°F

 $(-40^{\circ}C \text{ to } + 121^{\circ}C)$

*Temperature limits change with O-Ring selection

Adjustment

Concealed wrench flat adjustment with range scale

Shipping Weight

Approximately 3.5 pounds

Ordering Sequence — Select desired option for each category

OPTIONS

Wetted Material

- Aluminum port and body, Teflon coated polyimide diaphragm, Buna-N O-Rings and stainless steel
- Stainless steel, Teflon coated polyimide diaphragm and Buna-N O-Rings

Adjustable Range

2	.75 psid dec. to	15 psid inc.	(0.1 bar dec. to	1.0 bar inc.)
4	.3 psid dec. to	18 psid inc.	(0.0 bar dec. to	1.2 bar inc.)
6	2 psid dec. to	60 psid inc.	(0.1 bar dec. to	4.1 bar inc.)
7	49 psid dec. to	110 psid inc.	(3.4 bar dec. to	7.6 bar inc.)

Electrical Form

- 15 amps 125, 250 or 480 VAC; 2 amps 600 VAC; 1/8 hp 125 VAC; 1/4 hp 250 VAC; .5 amps resistive, .04 amps inductive 125 VDC
- CC 11 amps and 1/4 hp 125 or 250 VAC; 5 amps resistive, 3 amps inductive 28 VDC; .5 amps resistive 125 VDC

Enclosure

Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13

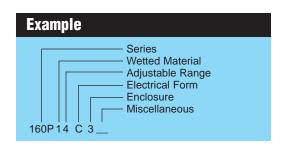
- Epoxy paint exterior extra protection for severe environments
- R Viton O-Ring
- **EPR O-Ring**
- Neon indicator light 115 VAC
- Gold electrical contacts for extremely low current applications M
- Stainless steel diaphragm (Ranges 2 & 4 and Wetted Material 4 only)

Special (Consult representative or factory)

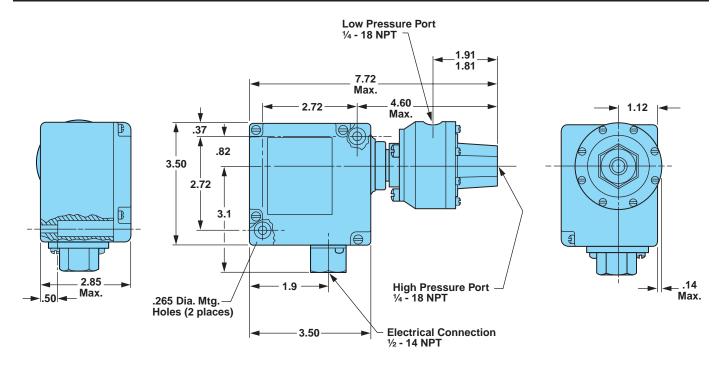
- Non-catalog adjustable range and/or set point, deadband and proof pressure
- Operating temperature capability from -65°F to +350°F
- 10 amps 125 VDC electrical rating
- Chemical seals installed
- Optional orientation of Low Pressure Port

Ordering Procedure

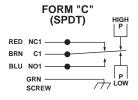
- When factory presetting is desired, stipulate set point, increasing or decreasing
- Insert available option number or letter designation as required

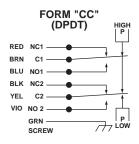


Envelope Dimensions



Electrical Form





Basic Principles of Design

