

Series 160P Differential Pressure Switch

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 recognized by Underwriters' Laboratories, Inc. and CSA International

Electrical Connection

1/2 NPT female conduit connection with terminal block

Pressure Connections

1/4 NPT Female

Temperature Range*

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

*Temperature limits change with O-Ring selection

Concealed wrench flat adjustment with range scale

Shipping Weight

Approximately 3.5 pounds



Order Miscellaneous Option "D"



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

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

Electrical Form

- 15 amp at 125 or 250 VAC; 1/8 hp at 125 VAC; 1/4 hp at 250 VAC; .5 amp resistive, .04 amp inductive at 125 VDC 11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive 28 at VDC;
- .5 amp resistive at 125 VDC

Enclosure

Meets or exceeds the requirements of NEMA Type 3, 3R, 3S, 4, 4X and 13, IP65

Epoxy paint exterior — extra protection for severe environments

Viton O-Ring

EPR O-Ring

D SIL approval and marking, per IEC61508 (includes FMEA report)

Neon indicator light — 115 VAC

Gold electrical contacts for extremely low current applications (1 Amp at 125 VAC; 1 Amp Res, 0.5 Amp Ind. at 28 VDC)

Stainless steel diaphragm — No low over high capability (Ranges 2 & 4 and Wetted Material 4 only) S

M20 x 1.5 Electrical Conduit Adapter

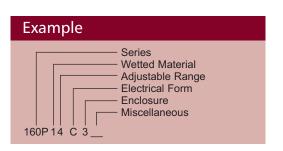
CE Mark

Special (Consult representative or factory)

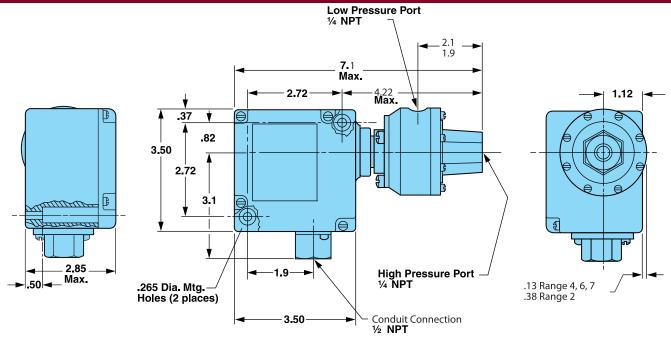
- Non-catalog adjustable range and/or set point, deadband and proof pressure Media temperature capability from -65°F to +350°F
- Chemical seals installed
- Optional orientation of Low Pressure Port

Ordering Procedure

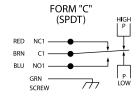
- When factory presetting is desired, stipulate set point, increasing or decreasing and system pressure
- Insert available option number or letter designation as required

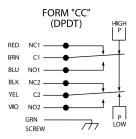


Envelope Dimensions

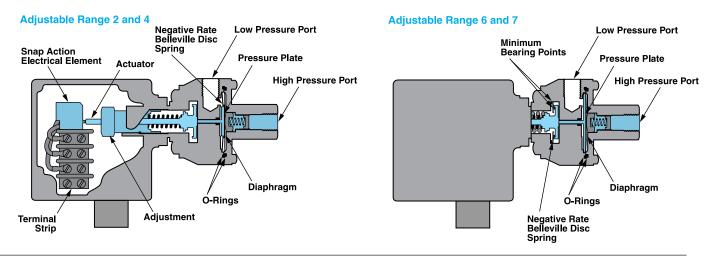


Electrical Form





Basic Principles of Design



Neo-Dyn® 28150 Industry Drive Valencia, CA 91355 tel: 864-647-9521 fax: 864-647-9574 www.neodyn.com