



**Weather Proof  
(NEMA 4 and 13)**

## DESCRIPTION

The Neo-Dyn® Smart-Switch™ is a solid state pressure switch designed for a wide range of applications involving pneumatic and low impulse hydraulics up to 6000 psig system pressures. Pressure is indicated continuously in psig unless the Display Saver feature is utilized. Options available include a 4-20 mA output and a two-way RS232 communication port. Software is available for IBM® compatible machines. Our all metal "NEMA 4X" rugged construction ensures compatibility in your environment.

## Operating Pressure Data

Adjustable Range Number	Adjustable Set Point Range		Deadband (adjustable % of full scale)	Proof Pressure	Burst Pressure
	Increasing	Decreasing			
01	0.06 to 3	0.03 to 2.97	1 to 99	15	30
02	0.1 to 5	0.05 to 4.95	1 to 99	25	50
04	0.3 to 15	0.15 to 14.85	1 to 99	75	150
05	0.6 to 30	0.30 to 29.7	1 to 99	150	300
07	2.0 to 100	1 to 99	1 to 99	500	1000
10	6 to 300	3 to 297	1 to 99	900	2500
11	10 to 500	5 to 495	1 to 99	1500	10000
12	20 to 1000	10 to 990	1 to 99	3000	10000
14	60 to 3000	30 to 2970	1 to 99	5000	10000

All values given in psig.

## Standard Specifications

### Electrical Connection

½ - 14 NPT male conduit connection with PVC insulated 22 AWG leads 18" long

### Pressure Connection

¼ - 18 NPT Female  
7/16 - 20 SAE (optional)

### Temperature Range

Operating: -15F to +140 F  
(-26C to +60 C)  
Storage: -30F to +170 F  
(-34C to +77 C)

### Transmitted Output

Scaleable 4 - 20 mA  
RS232 Computer Interface (both optional)

### Solid State Switching

(2) SPDT or (1) DPDT  
3 amps resistive  
1 amp inductive

### Relay Switching

(2) SPDT or (1) DPDT  
3 amps resistive

### Power Source

115/220 VAC or 18 - 28 VDC

### Shipping Weight

Approximately 3.5 pounds

### Accuracy Statement

0.2% FSO

## Ordering Sequence — Select desired option for each category

### OPTIONS

#### Wetted Material

**5** 316 stainless steel port and diaphragm heliarc welded

#### Adjustable Range

**01** 0.03 psig dec. to 3.0 psig inc. (2.07 millibar dec. to 206.9 millibar inc.)  
**02** 0.05 psig dec. to 5.0 psig inc. (3.4 millibar dec. to 34 bar inc.)  
**04** 0.15 psig dec. to 15 psig inc. (10.2 millibar dec. to 10.3 bar inc.)  
**05** 0.30 psig dec. to 30 psig inc. (20.4 millibar dec. to 20.6 bar inc.)  
**07** 1.0 psig dec. to 100 psig inc. (68.9 millibar dec. to 6.9 bar inc.)  
**10** 3.0 psig dec. to 300 psig inc. (.207 bar dec. to 20.68 bar inc.)  
**11** 5.0 psig dec. to 500 psig inc. (.34 bar dec. to 34.4 bar inc.)  
**12** 10 psig dec. to 1000 psig inc. (.68 bar dec. to 68 bar inc.)  
**14** 30 psig dec. to 3000 psig inc. (2 bar dec. to 207 bar inc.)

#### Input Power

**A** 115 VAC, 60 Hz  
**D** 18 - 28 VDC (175 mA max.)  
**E** 220 VAC, 50/60 Hz

#### Switch Configuration

**A** 12 - 140 VAC (solid state)  
**D** 5 - 60 VDC (solid state)  
**E** 24 - 280 VAC (solid state)  
**R** 24 VDC or 240 VAC (relay)  
**T** 3 - 250 VDC (solid state, 250 mA res. max.)

#### Options

**E** 7/16 - 20 SAE port  
**Q** Scaleable Readout  
**V** Analog Output (4 - 20 mA)  
**Z** RS232 Communication

## Ordering Procedure

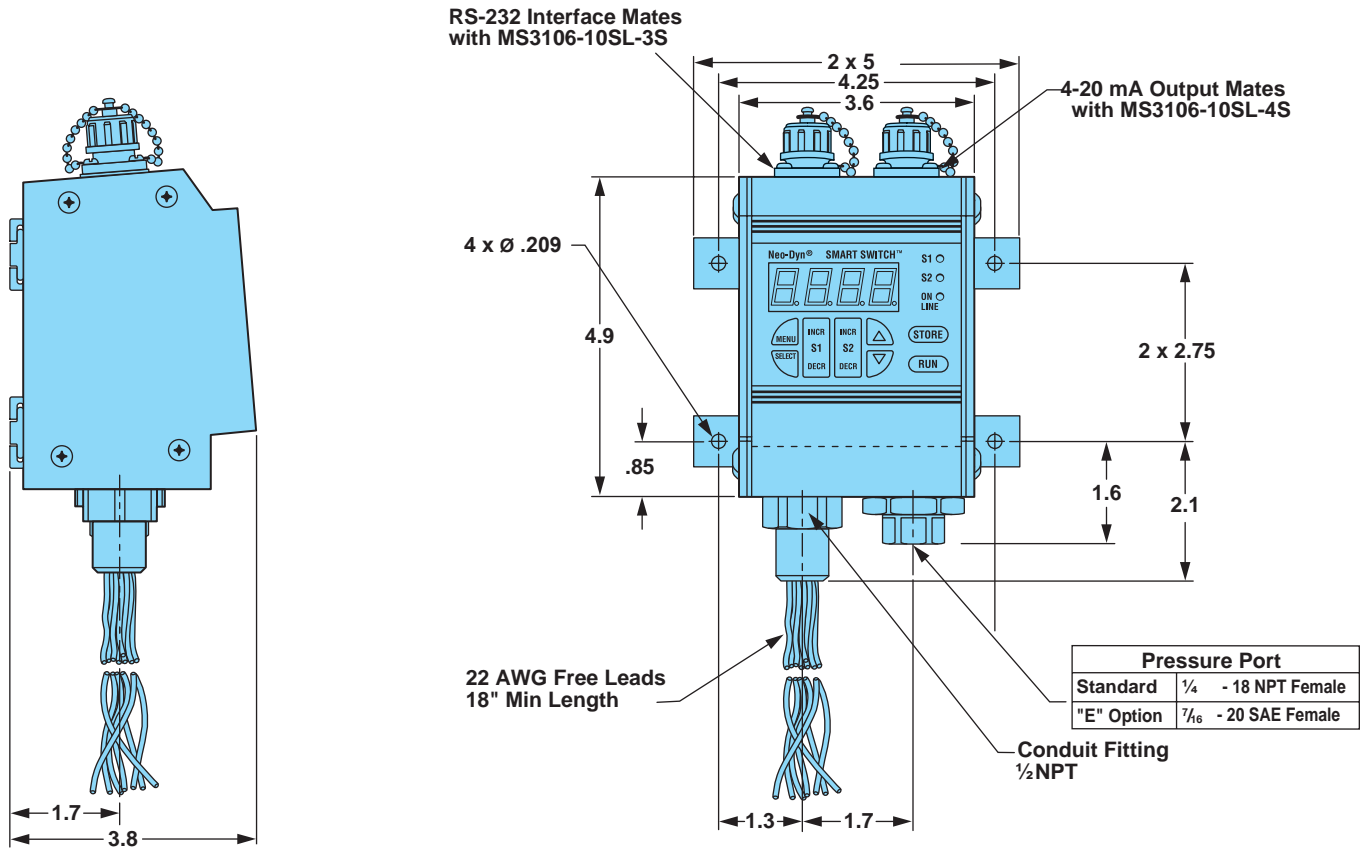
- When factory presetting is desired, stipulate set point, increasing AND decreasing, on purchase order
- Insert available option number or letter designation as required

## Example

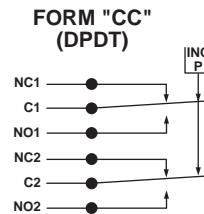
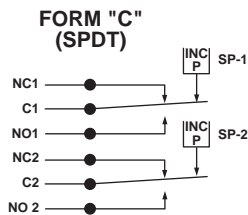
Model  
 Wetted Material  
 Range  
 Input Power  
 Switching Rate  
 Options

801P 5 03 DD \_

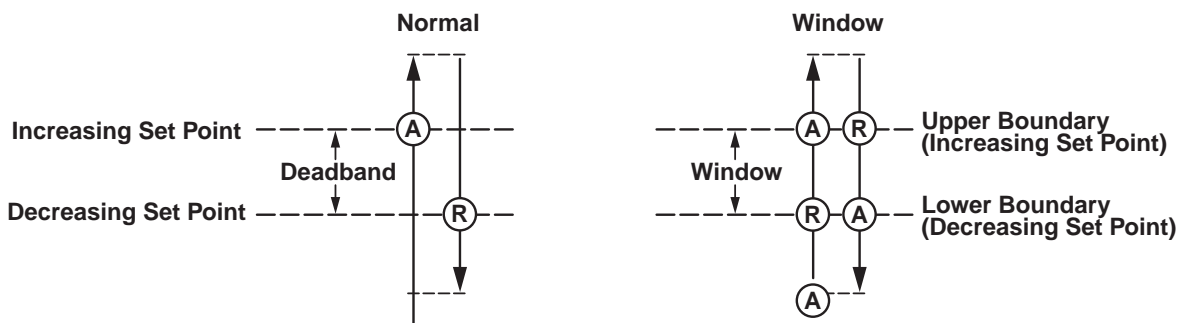
**Envelope Dimensions**



**Electrical Form**



**Operational Modes**



(A) = Switch Activates

(R) = Switch Resets