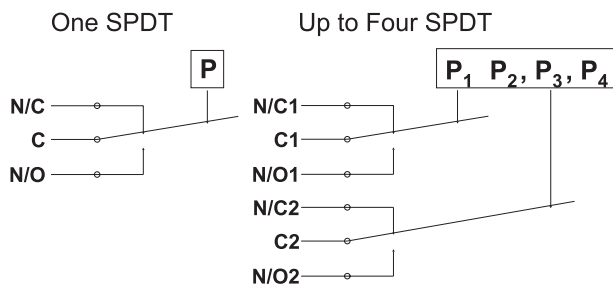




Ranges from 0-15 PSID to 0-60 PSID

Rugged NEMA 4X and 12 housing standard
Class I, Div. I, Gr. C and D available
Up to four SPDT contacts
Various wetted materials available

Wiring Schematic



Installation Notes

Orientation - The 6WPSDO will operate satisfactorily in any position. However, mounting the device vertically will allow the easiest adjustability and reduce sediment in the pressure chamber.

Wiring - Switches may be wired to 'normally open' or 'normally closed' terminals on electric switch(es).

Pressure Connection - 1/4" NPT female is standard. 1/2" NPT male is available (M option).

Adjustment - Turn pressure adjustment nut(s) clockwise to increase setpoint. Detailed installation and calibration instructions are provided for every shipment. Setting adjustment is available at no charge.

Teflon® is a registered trademark of Dupont Corporation
Viton® is a registered trademark of DuPont Performance Elastomers

Description & Features:

- Designed to sense low differential pressures between high pressure sources
- High pressure seals are opposed stainless steel bellows assemblies, while the differential pressure is sensed by a diaphragm clamped between these bellows assemblies
- Diaphragm has a large area to accurately sense low differential pressure. During over-pressure the diaphragm is fully supported
- Both high or low pressure sides of the element can withstand the maximum pressure with the opposite side at atmospheric pressure
- Rugged cast aluminum housing incorporates Winters' standard accurate switching mechanism, and can be specified watertight or explosion proof
- Housing is large enough to accommodate up to four full size SPDT electric switches
- Standard differential pressure-sensing element is constructed of a strong aluminum alloy using a Buna N elastomer diaphragm. Other diaphragm and wetted area materials are available
- 1 year warranty

Applications:

- Utilized in high static low differential pressure filtration applications and system level controls

| Specifications | |
|------------------------------------|-----------------------------------|
| Housing | Cast aluminum |
| Pressure Connection | 1/4 NPT |
| Electrical Connection | 3/4 NPT |
| Port Material | Aluminum |
| Diaphragm Material | Buna N, Teflon® protected Viton® |
| Deadband | Fixed |
| Sensitivity | 1/2% of range (for SPDT) |
| Drift | <1% of range (100,000 operations) |
| Contact Ratings | 15A - 125, 250, 480 VAC |
| Set Point Adjustment | Screw type, field adjustable |
| No. of Contacts | 1, 2, 3 or 4 SPDT or 1 DPDT |
| Contact Listings | UL Recognized, CSA Certified |
| Maximum Ambient Temperature | 180°F (82°C) |
| Minimum Ambient Temperature | -20°F (-29°C) |
| Weight | Approx. 5 lbs. |

Series Number (how to order)

6WPS W 1 DO E 2

SERIES

HOUSING'
W - WATERTIGHT - NEMA 4X & 12
X - EXPLOSION PROOF - NEMA 7 & 9

NUMBER OF ELECTRIC SWITCHES
1 - ONE S.P.D.T.
11 - TWO TANDEM ELECTRIC SWITCHES OPERATE IN PARALLEL D.P.D.T.
2 - TWO S.P.D.T. INDEPENDENT ADJUSTMENT
3 - THREE S.P.D.T. INDEPENDENT ADJUSTMENT
4 - FOUR S.P.D.T. INDEPENDENT ADJUSTMENT

SPECIAL FEATURES
-- NO SPECIAL FEATURES
A- ADJUSTABLE DEADBAND
E- EXTERNAL PRESSURE ADJUSTMENT
EE- TWO EXTERNAL PRESSURE ADJUSTMENTS
L- ONE INDICATOR LIGHT (NOT ON X HOUSING)
LL- TWO INDICATOR LIGHTS (NOT ON X HOUSING)
M- MALE PIPE MOUNTING 1/2 NPT
P- PANEL MOUNTING
R>- MANUAL RESET, SWITCH ON INCR. PR.
R<- MANUAL RESET, SWITCH ON DECR. PR.
SS- SPECIAL TRIM BASE 316 STAINLESS STEEL
T- TEFLON PROTECTED DIAPHRAGM
U- ADDITIONAL PAINTING AFTER ASSEMBLY
V- HIGH TEMPERATURE SERVICE
Z- VITON DIAPHRAGM

TYPE OF ELECTRIC SWITCHES
1 - LOW DEADBAND
 15A - 125, 250, 480 VAC
2 - STANDARD DEADBAND
 15A - 125, 250, 480 VAC; 0.5A - 125 VDC
3 - HIGH DC RATED (MAGNETIC BLOWOUT)
 10A - 125 VDC; 3A - 250 VDC
4 - HERMETICALLY SEALED SWITCH
 1A-125VAC; 25A.RES, 10A.IND, 5A.MOTOR
 3A.LAMP-28VDC
6 - GOLD CONTACT -
 1 A - 125 VAC

* SPECIAL FEATURES SUCH AS STAINLESS TAGGING, OR SPECIAL WETTED PARTS; BRASS, HASTELLOY, ETC. ARE AVAILABLE ON REQUEST. CONSULT WINTERS FOR CAPABILITIES AND PRICING FOR ANY FEATURES NOT SHOWN.

Deadband Notes

The deadbands listed in the tables are the maximum switch differentials when the standard (Type 2 or Type "5") electric switch is used.

Deadband is affected by the type of switch used. Each type of switch's effect on deadband is as follows:

- Type 1** Low Deadband - Use 1/2 Type 2 table values
- Type 2** Std. Deadband - Use table values
- Type 3** High DC Rated - Multiply Type 2 table values by two
- Type 5** Sub Miniature - 2 SPDT - Use Type 5 table values
- Type 6** Gold Contact - Use Type 2 table values

| Adjustable Pressure Range | Ranges | | Maximum Working Pressure |
|---------------------------|----------------------|--------|--------------------------|
| | Maximum Deadband psi | | |
| | Type 1 | Type 2 | |
| 0-15 psi | 0.3 | 0.6 | 2,500 psi |
| 0-30 psi | 0.35 | 0.7 | 2,500 psi |
| 0-60 psi | 0.35 | 0.7 | 2,500 psi |

