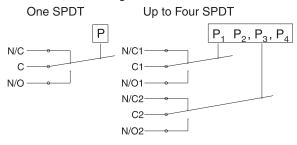
Diaphragm Actuated Pressure Switch



Ranges from 0-15 psi to 0-300 psi

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

Wiring Schematic



Installation Notes

Orientation - The 6WPS Diaphragm Actuated will operate satisfactorily in any position. However, mounting the device vertically will allow the easist 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 - $\frac{1}{4}$ " NPT female is standard. $\frac{1}{2}$ " 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:

 Constructed using a rugged cast aluminum housing (NEMA 4X and 12) that incorporates Winters' standard accurate switching mechanism actuated by a diaphragm

6W

- Housing can be specified watertight or explosion proof and large enough to accommodate up to four full size SPDT electric switches
- Electric switches are available in a variety of configurations including adjustable switch differential (dead band), DPDT, high-low operation, manual reset
- Many switching configurations can be supplied with electric switches that have low switch differentials (dead band), high direct current ratings, gold contacts, hermetically sealed contacts
- Standard pressure-sensing element uses a strong Buna N elastomer diaphragm. Other diaphragm materials are available
- 1 year warranty

Applications:

Multiple tank or pump controls and those requiring alarm systems

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	0.5% 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.		

Diaphragm Actuated Pressure Switch

Adjustable					
Pressure Range	Type 2	Type 5	Working Pressure		
Pressure (psi)					
0-15 psi	0.2	0.3	50		
0-30 psi	0.2	0.5	100		
0-60 psi	0.5	1.0	200		
0-100 psi	1.0	2.0	300		
0-150 psi	1.0	2.5	300		
0-200 psi	2.0	3.5	500		
0-300 psi	3.0	5.0	500		
Vacuum					
30"HG /VAC	3"	0.6"	50		
30PR-30 VAC	5"	1.0	50		
High Over-Pressure					
0-15 psi	0.3	0.6	1,000		
0-30 psi	0.4	0.8	1,000		
0-60 psi	0.5	1.0	1,000		
0-100 psi	0.8	1.5	1,000		

Deadband Notes

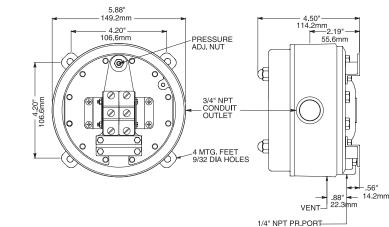
The deadbands listed in the tables are the maximum switch differentials when the standard (Type 2 or Type 5) electric switch is used

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

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



Canadian Standards Association Certified: Industrial Control Equipment Type 4 & 12. Switches Pressure Type for Hazardous Locations, Class I, Group C & D; Class II, Group E, F & G.



Series Number (how to order)

6WPS W 1 MODEL SERIES 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. TWO S.PD.T. INDEPENDENT ADJUSTMENT
 THREE S.P.D.T. INDEPENDENT ADJUSTMENT
 FOUR S.P.D.T. INDEPENDENT ADJUSTMENT SPECIAL FEATURES NO SPECIAL FEATURES ADJUSTABLE DEADBAND A ADJUSTABLE DEADBAND
E. EXTERNAL PRESSURE ADJUSTMENT
EE - TWO EXTERNAL PRESSURE ADJUSTMENTS
F. FLANGE BASE MOUNTING
J - SAFETY SEAL
L - TWO INDICATOR LIGHT (NOT ON X HOUSING)
LL - TWO INDICATOR LIGHTS (NOT ON X HOUSING)
M- MALE PIPE MOUNTING ½ NPT
P. PANEL MOUNTING
RS - MANUAL RESET, SWITCH ON INCR. PR.
RS - MANUAL RESET, SWITCH ON DECR. PR.
SS - SPECIAL TRIM BASE 316 STAINLESS STEEL
SI - SPECIAL TRIM BASE PVC (NOT ON X SWITCHES)
SY - SPECIAL TRIM BASE PVC (NOT ON X SWITCHES)
T - TEFLON PROTECTED DIAPHRAGM
U - ADDITIONAL PAINTING AFTER ASSEMBLY
V - HIGH TEMPERATURE SERVICE A -

- V -HIGH TEMPERATURE SERVICE VITON DIAPHRAGM
- ż-

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SST 2

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TYPE OF ELECTRIC SWITCHES

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

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