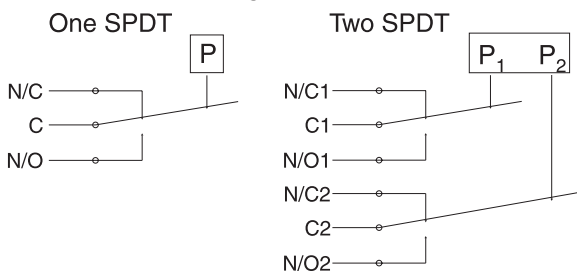




Ranges from 0-15 PSI to 0-300 PSI

Rugged NEMA 4X, 12 and 13 housing
One or two SPDT contacts
Versatile mechanism design
Adjustable deadband available

Wiring Schematic



Installation Notes

Orientation - The 5WPS Diaphragm Actuated 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.

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

Teflon® is a registered trademark of Dupont Corporation

Description & Features:

- Features a rugged cast aluminum housing (NEMA 4X, 12 and 13 standard) and cover incorporating Winters' accurate switching mechanism actuated by a diaphragm
- Either one or two SPDT electric switches are available in a variety of configurations: tandem settings for DPDT operation, independent adjustment for High-Low operation, adjustable switch differential (deadband), manual reset on either increasing or decreasing pressure
- Many switching configurations can be supplied with electric switches that have: low switch differentials (deadband), high direct current ratings, gold contacts, hermetically sealed contacts
- The standard pressure-sensing element uses a strong Buna N elastomer diaphragm
- Other diaphragm materials are available
- 1 year warranty

Applications:

- Common applications include: pumping stations, remote locations, ideal for High-Low level control (requiring dual elements)

Specifications	
Housing	Diecast aluminum
Pressure Connection	1/4" NPT female standard 1/2" NPT male available
Electrical Connection	1/2" NPT
Port Material	Aluminum
Diaphragm Material	Buna N, Teflon® protected
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	One or Two SPDT, One DPDT
Contact Listings	UL Recognized, CSA Certified
Maximum Ambient Temperature	180°F (82°C)
Minimum Ambient Temperature	-20°F (-29°C)
Weight	Approx. 3 lbs

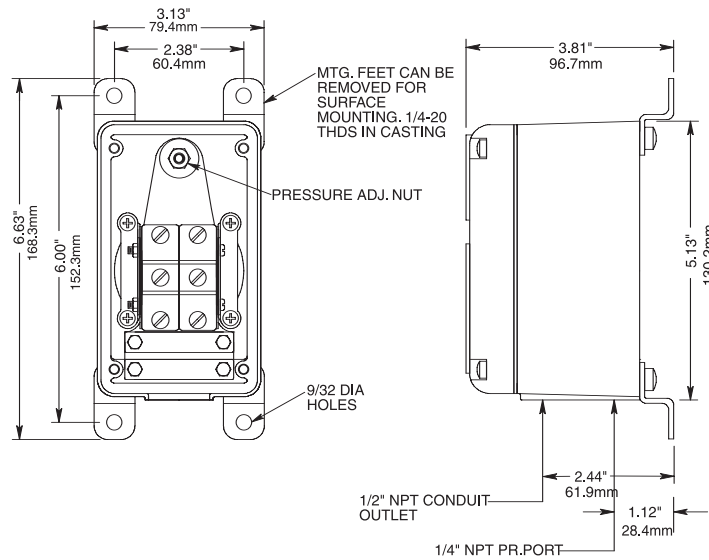
Adjustable Pressure Range		Maximum Deadband				Maximum Working Pressure	
		Type 1		Type 2			
psi	MPa	psi	kPa	psi	kPa	psi	MPa
0-15	0-0.104	0.3	2.07	0.6	4.14	50	0.35
0-30	0-0.207	0.4	2.76	0.8	5.52	100	0.69
0-60	0-0.414	0.5	3.45	1.0	6.90	200	1.38
0-100	0-0.69	1.0	6.90	2.0	13.8	300	2.07
0-150	0-1.035	1.0	6.90	2.5	17.2	300	2.07
0-200	0-1.38	2.0	13.8	3.5	24.1	500	3.45
0-300	0-2.07	3.0	20.7	5.0	34.5	500	3.45

Deadband Notes

The deadbands listed in the tables are the maximum switch differentials when the Type 1 or Type 2 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 table values
- Type 2** Std. Deadband - Use table values
- Type 3** High DC Rated - Multiply Type 2 table values by two
- Type 4** Hermetically Sealed Switch - Multiply Type 2 table values by 6
- Type 6** Gold Contact - Use Type 2 table values



Series Number (how to order)

5WPS W 1 A 2

SERIES ————

HOUSING*
W - WATERTIGHT - NEMA 4X, 12 & 13

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

SPECIAL FEATURES ————

-- NO SPECIAL FEATURES
A - ADJUSTABLE DEADBAND
E - EXTERNAL PRESSURE ADJUSTMENT
EE - TWO EXTERNAL PRESSURE ADJUSTMENTS
L - ONE INDICATOR LIGHT
LL - TWO INDICATOR LIGHTS
M - MALE PIPE MOUNTING 1/2 NPT
O - HIGH OVERPRESSURE DIAPHRAGM - INCREASES MAX. PRESSURE TO 1000 PSI
Q - DOUBLE SNAP ACTION (BELLEVILLE SPRING)
R> - MANUAL RESET, SWITCH ON INCR. PR.
R< - MANUAL RESET, SWITCH ON DECR. PR.
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
1.A-125VAC; 25A.RES, 10A.IND, 5A.MOTOR
3A.LAMP-28VDC
6 - GOLD CONTACT -
1 A - 125 VAC

* SPECIAL FEATURES SUCH AS STAINLESS TAGGING, KALREZ DIAPHRAGM, HIGH/LOW SWITCHING, ETC. ARE AVAILABLE ON REQUEST. CONSULT WINTERS FOR CAPABILITIES AND PRICING FOR ANY FEATURES NOT SHOWN.