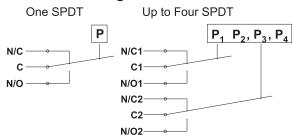




Ranges from 0-1.5" WC to 0-150" WC Class I, Div. I, Gr. C and D available

Wiring Schematic



Installation Notes

Orientation - The 7WPS 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 - ¼" NPT female is standard. ½" 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:

- Rugged cast aluminum NEMA 4X and 12 housing incorporates standard accurate switching mechanism actuated by a large area diaphragm
- Housing can be specified watertight or explosion proof and is large enough to accommodate up to 4 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
- In addition 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 and wetted area materials are available
- 1 year warranty

Applications:

· Designed for low pressure applications

	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	½% 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. 6 lbs.			

Series Number (how to order)

7WPS SST 2 **MODEL SERIES**

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

NUMBER OF ELECTRIC SWITCHES 1 - ONE S.P.D.T.

- TWO TANDEM ELECTRIC SWITCHES OPERATE IN PARALLEL D.P.D.T. TWO S.P.D.T. INDEPENDENT ADJUSTMENT 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
 F- FLANGE BASE MOUNTING
 -- COUNTY FOR A SENSITIVE LOW
- DOUBLE DIAPHRAGM EXTRA SENSITIVE LOW PR G-

- DOUBLE DIAPHRAGIN EXTRA GLIGHTY LEST.
 SAFETY SEAL
 ONE INDICATOR LIGHT (NOT ON X HOUSING)
 TWO INDICATOR LIGHTS (NOT ON X HOUSING)
 MALE PIPE MOUNTING ½ NPT
- PANEL MOUNTING

- P PANEL MOUNTING
 R> MANUAL RESET, SWITCH ON INCR. PR.
 RC MANUAL RESET, SWITCH ON DECR. PR.
 SS SPECIAL TRIM BASE 316 STAINLESS STEEL
 SI SPECIAL TRIM BASE TEFLON (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
 Z VITON DIAPHRAGM

- VITON DIAPHRAGM

Diaphragm Actuated									
Adjustable	Maximum Deadband		Maximum						
Pressure Range	Type 1	Type 2	Working Pressure						
Pressure (wc)									
0-1.5" WC	0.15	-	25 psi						
0-3" WC	0.16	-	25 psi						
0-6" WC	0.2	0.4	25 psi						
0-15" WC	0.3	0.6	25 psi						
0-30" WC	0.6	1.1	25 psi						
0-60" WC	0.7	1.4	25 psi						
0-100" WC	0.8	1.6	25 psi						
0-150" WC	1.2	2.4	25 psi						
0-1.5" WC	0.17	-	50 psi						
0-3" WC	0.18	-	50 psi						
0-6" WC	0.23	0.45	50 psi						
0-15" WC	0.33	0.65	50 psi						
0-30" WC	0.6	1.2	50 psi						
0-60" WC	0.7	1.4	50 psi						
0-100" WC	0.8	1.6	50 psi						
0-150" WC	1.2	2.5	50 psi						
Vacu	um-Pressure	e (wc)							
0-3" WC	0.45	0.87	25 psi						
0-6" WC	0.8	1.6	25 psi						
0-15" WC	1.7	3.4	25 psi						
0-30" WC	2.5	5.0	25 psi						
0-60" WC	4.8	9.6	25 psi						

8.0

Ranges

* 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

3A.LAMP-28VDC GOLD CONTACT -

1 A - 125 VAC

1.A-125VAC; 25A.RES, 10A.IND, 5A.MOTOR

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 electric switch used. Each type of electric switch's effect on deadband is as follows:

Type 1 Low Deadband - Use table values Type 2 Std. Deadband - Use table values

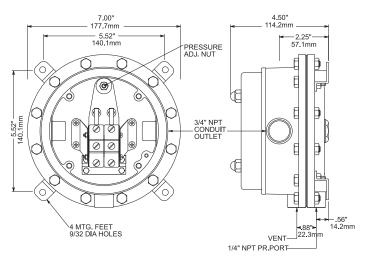
High DC Rated - Multiply Type 2 table values Type 3

by two

Type 4 Hermetically Sealed Switch - Multiply Type 2

table values by six

Type 6 Gold Contact - Use Type 2 table values





25 psi

16.0

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.

0-100" WC

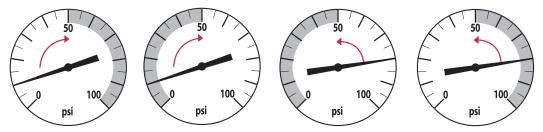
Pressure Switch Options

		Availability			
Code	Descriptions of Most Common Options		5WPS	6WPS	7WPS
		Series	Series	Series	Series
-	No Special Features	х	х	ХX	ХX
Α	Adjustable Dead Band		х	Х Х	ХX
В	Bellows Actuated		x	ХX	
BD	Bellows Actuated Differential Pressure		x	Х X	
D	Diaphragm Actuated Differential Pressure (DP)			ХX	ХX
Е	External Pressure Adjustments		х	ХX	ХX
EE	Two External Pressure Adjustments		х	ХX	ХX
F	Flange Base Mounting			ΧХ	ΧХ
G	Double Diaphragm Extra Sensitive Low Pressure				ΧХ
J	Safety Seal			ХX	ХX
I	One Indicator Light (Not on X Housing)		х	х	Х
II	Two Indicator Lights (Not on X Housing)		х	х	х
М	Male Pipe Mounting 1/2" NPT		х	ХX	ХX
0	High Overpressure Diaphragm	х	х	ХX	
Р	Panel Mounting			ХX	ХX
Q	Double Snap Action (Belleville Spring)	х	х	ХX	
R>	Manual Reset Switch on Increase Pressure (2 max.)		х	ХX	ХX
R<	Manual Reset Switch on Decrease Pressure (2 max.)		х	ХX	ХX
SS	Special Trim Base 316 Stainless Steel	х		ХX	ХX
SI	Special Trim Base Teflon® (Not on X Switches)	х		х	х
SY	Special Trim Base PVC (Not on X Switches)	х		Х	Х
Т	Teflon® Protected Diaphragm	х	х	ХX	ХX
V	High Temperature Service	х	х	х	Х
Z	Viton® Diaphragm	х	х	ХX	ХX

Note: Options may vary from none (-) to whatever may be required for a particular application Options can be combined with the exception of similar types, i.e. SS and SI may not be combined

- Standard options
- Options available on CSA Certified switches used in NEMA 4 and 12, as well as general purpose application
- Options available on CSA Certified switches used in Class 1, Group C,D; Class II, Groups E, F and G hazardous locations Note: Adjustment setting available at no extra charge

Below are some illustrations to assist you in the definition and selection of the single pole switch.



To "make" or "break" at 50 psi on rising or decreasing pressures: Switch is closed in shaded zone on dial