

- Ranges from 2 300 psi
- NEMA 7 Class I, Gr. C & D
- NEMA 9 Class II, Gr. E, F & G
- One or two SPDT contacts
- Various wetted materials available



GENERAL DESCRIPTION

Explosion-proof cast-aluminum housing

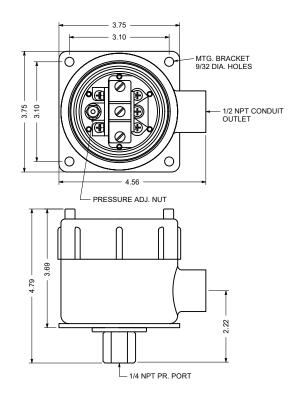
• Frictionless switching mechanism, which amplifies, the movement of the switching element, resulting in improved life, repeatability, and lower deadbands

• Available with one or two SPDT electric switches that are independently adjustable

• Removable enclosure cover for easy wiring and adjustment of the vacuum setting. Features S/S screws that retain the cover gasket when the enclosure cover is removed.

• Modular design or pressure-sensing elements accomodates a variety of applications

MODEL SERIES 2PSX Pressure Switch Diaphragm Sensing Element



SPECIFICATIONS

PHYSICAL DATA (Standard) -see page 2 for special features

Maximum Ambient Temperature: 180°F Minimum Ambient Temperature: -20°F Pressure Connection: ¹/₄ NPT **Electrical Connection: 1/2 NPT** Housing: Cast Aluminum Deadband: Fixed **Sensitivity:** 1/2% of range (for one SPDT switch) **Drift:** <1% of range (100,000 operations) Weight: Approx. 2.0 lbs. Contact Ratings: 15A - 125, 250, 480 VAC Port Fitting Material: Stainless Steel Trim Material: Anodized Aluminum Diaphragm Material: Buna N Set Point Adjustment: Screw type, field adjustable No. Contacts: One or Two S.P.D.T. Contact Listings: UL Recognized

ORDERING A SWITCH

1. SPECIFY A MODEL NUMBER

SST 2PSX 1 2

MODEL SERIES

NUMBER OF ELECTRIC SWITCHES

- 1 ONE S.P.D.T.
- 2 TWO S.P.D.T. (SWITCH TYPE "5" ONLY)

SPECIAL FEATURES

- M 1/2 NPT MALE PIPE MOUNTING
- O HIGH OVERPRESSURE INCREASES MAX. PRESSURE TO 1000 PSI FOR RANGES 0-2 PSI TO 0-20 PSI; MAX. PRESSURE IS 1500 PSI FOR RANGES 0-50 PSI AND UP
- **SS** STAINLESS STEEL WETTED TRIM MATERIAL **SN** - BRASS WETTED TRIM MATERIAL
- T PTFE PROTECTED DIAPHRA
- **Z** VITON DIAPHRAGM MATERIAL

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 11 AMP, 125, 250 VAC: 5A-30 VDC
- 5 SUB MINIATURE SWITCH 2 S.P.D.T.
- 5A 125, 250 VAC; 0.5A 125 VDC
- 6 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 FACTORY FOR CAPABILITES AND PRICING FOR ANY FEATURES NOT SHOWN

2. SPECIFY A RANGE

ADJUSTABLE PRESSURE RANGE	TYPICAL DEADBAND* TYPE "2" TYPE "5"		MAX. WORKING PRESSURE
0-2 PSI	.25 PSI	.23 PSI	20 PSI
0-5 PSI	.27 PSI	.50 PSI	20 PSI
0-10 PSI	.34 PSI	.90 PSI	50 PSI
0-20 PSI	.50 PSI	1.9 PSI	50 PSI
0-50 PSI	1.6 PSI	6 PSI	250 PSI
0-100 PSI	1.9 PSI	8.3 PSI	250 PSI
0-200 PSI	4.4 PSI	16 PSI	500 PSI
0-300 PSI	5.3 PSI	22 PSI	500 PSI

* MAXIMUM DEADBANDS MAY BE 50% GREATER

INSTALLATION NOTES

Orientation - The 2PS 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). Single switch units have screw terminals while dual switch versions use a screw terminal block..

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 & calibration instructions are provided for every shipment. Factory setting is available at no charge.

DEADBAND NOTES

The deadbands listed in the tables are the typical switch differentials when the standard (Type "2" or Type "5") 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 ¹/₂ TYPE 2 table values.

Type "2" - Std. Deadband - Use TYPE 2 table values.

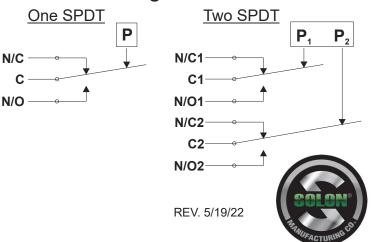
Type "3" - *High DC Rated* - Multiply TYPE 2 table values by two

Type "4" – *Hermetically Sealed Switch* – Use TYPE 2 table value UL-recognized component, guide WSQ2, File E85076. All stainless steel construction.

Type "5" - Sub Miniature - 2 S.P.D.T. - Use TYPE 5 table values.

Type "6" - Gold Contact - Use TYPE 2 table values.

Wiring Schematic



Pressure Switch Diaphragm Sensing Element

MODEL SERIES 2PSX