



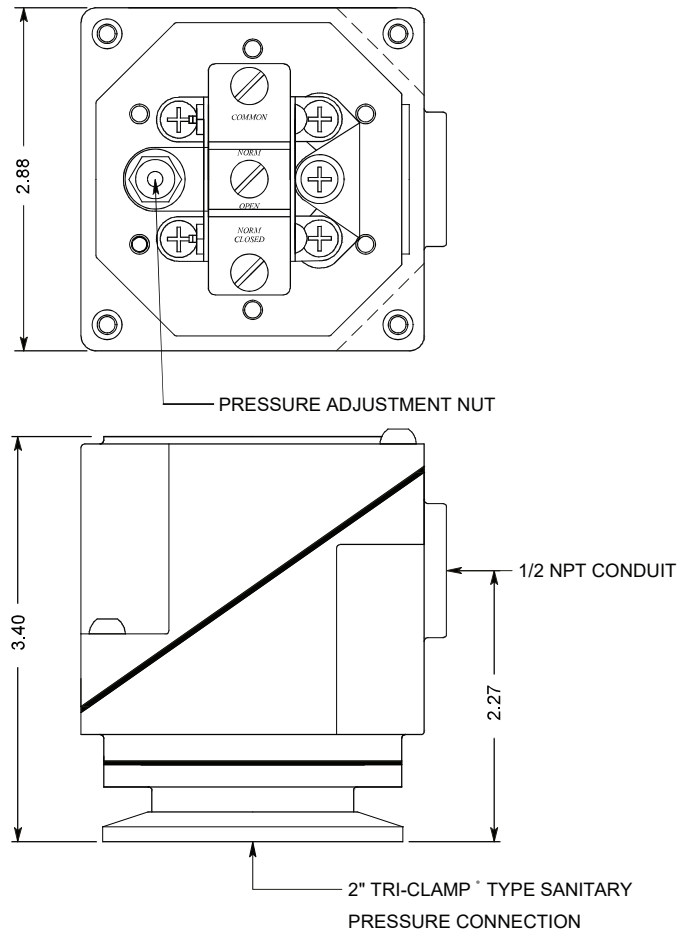
2SAN Sanitary Pressure Switch Diaphragm Sensing Element

- Ranges 2-300 psi
- NEMA 4 & 12 housing
- Elastomer diaphragm
- 2" tri-clamp connection
- No fill-fluid



GENERAL DESCRIPTION

- Designed for food, dairy, and other sanitary applications
- Features an elastomer (EPDM or PTFE) diaphragm sensing element that is manufactured in accordance with 3-A Sanitary Standard No. 37-01
- 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
- Eliminates the need for fill-fluid, which could contaminate sanitary systems and also reduces the effect temperature has on set points
- Other fitting sizes and/or ranges (including vacuum) are available*



SPECIFICATIONS

PHYSICAL DATA (Standard)

-see page 2 for special features

Maximum Ambient Temperature: 180°F

Minimum Ambient Temperature: -40°F

Pressure Connection: 2" Tri-Clamp

Electrical Connection: 1/2 NPT

Housing: Diecast aluminum - Painted per ASTM B117

Deadband: Fixed

Sensitivity: 1% of range (for one SPDT switch)

Drift: <2% of range (100,000 operations)

Weight: Approx. 1.5 lbs.

Contact Ratings: 15A - 125, 250, 480 VAC

Wetted Material: EPDM standard, PTFE available

Set Point Adjustment: Screw type, field adjustable

No. Contacts: One or two S.P.D.T.

Contact Listings: UL Recognized

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ORDERING A SWITCH

2SAN Sanitary Pressure Switch Diaphragm Sensing Element

1. SPECIFY A MODEL NUMBER

MODEL SERIES **2PS** **W** **1** **SAN** **T** **2**

HOUSING
 ' ' - NO HOUSING
W - WATERTIGHT - NEMA 4X, 12 & 13

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

SPECIAL FEATURES
V - HIGH AMBIENT TEMPERATURE (250F)
T - PTFE PROTECTED 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
5 - SUB MINIATURE SWITCH - 2 S.P.D.T.
 5A - 125, 250 VAC; 0.5A - 125 VDC
4 - HERMETICALLY SEALED 11 AMP, 125, 250 VAC;
 5A-30 VDC
6 - GOLD CONTACT -
 1 A - 125 VAC

* SPECIAL FEATURES SUCH AS STAINLESS TAGGING, OR FACTORY SETTINGS ARE AVAILABLE ON REQUEST. CONSULT FACTORY FOR CAPABILITIES AND PRICING FOR ANY FEATURES NOT SHOWN.

2. SPECIFY A RANGE

ADJUSTABLE PRESSURE RANGE	TYPICAL DEADBAND*		MAX. WORKING PRESSURE
	TYPE "2"	TYPE "5"	
0-2 PSI	.25 PSI	.50 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.

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 ½ TYPE 2 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 - 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.

INSTALLATION NOTES

Orientation - The 2SAN 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 employ a screw terminal block.

Pressure Connection - 2" Tri-clamp® style connection (clamp not provided).

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.

Wiring Schematic

