

Pressure Switch 1bar ; 2bar 5bar; 10bar

Part Number: **TSA-APA**

Description

TSA mechanical pressure switches are manufactured in the USA to the highest quality standards. They have been designed for the hydraulics of heavy mobile moving machinery with an over pressure of 24bar. Supplied with gold contacts, they are suitable for low voltage (less than 20mA control inputs of PLCs) as well as having a standard rating of 250VAC, 5A. (Note ; once the switch has passed high currents it will not support the mA range.)



Technical Specifications (Stock Models)

Setting Range:	0.2 – 1.04bar 0.3 – 2.1bar 1.03 – 5.2bar 3.5 – 10bar
Overload Pressure:	24bar
Process Connection:	¼ " BSPP Standard (see other options)
Repeatability:	± 1 psi or 5% of Set Point
Switch:	SPDT snap action change over (Standard)
Temperature:	-26110 °C (Viton seal option for up to 150°C)
Materials:	Brass body
MTBF:	1000 000 cycles
Ingress protection:	IP65 with DIN connection fitted correctly
Electrical Connection:	DIN 43650A Cable Clamp (standard)
Weight:	0.07kg

Options on Request:

TSA-APA	-1A	-4G	-C	-HC	-7
Model	Range	Port Size	Circuit	Terminal	Other Options
APA - Field Adjustable APF - Factory Set	1 - 0.2...1bar 1A - 0.3...2bar 2 - 1...5bar 3 - 3.5...10bar	2M - 1/8 NPT 4M - 1/4 NPT 4MF -1/4 NPTF(Male Dryseal thread) 2G - 1/8 BSPP 4G - 1/4 BSPP(undercut for o-ring) 4GS- 1/4 BSPP(no undercut) 4S - 7/16X20 SAE MALE 4SW - 7/16X20 SAE Swivel 6S - 9/16X18 SAE MALE M10 - M10X1 M12 - M12X1.5	A-N/O B-N/C C-SPDT	SP - 1/4" x 1/32" Spade TS - 6-32 Terminal Screws FL - 18" Flying Leads FLL - Custom leads length FLWTF - Weatherpack Tower Female FLWTM - Weatherpack Tower Male FLWSF - Weatherpack Shroud Female FLWSM - Weatherpack Shroud Male H - DIN 43650A Male Half Only HC - DIN 43650A Cable Clamp HN - DIN 43650A 1/2 Conduit (female) HCC - XXX (Specify Length in Inches) HC11A - DIN Light NO/NC 110V HC11B - DIN Light NO/NC 12VDC HC11C - DIN Light NO/NC 24VDC HC11D – LED Indict. G/R (SPDT only) DI - Deutsch Integral M12 - M12 X 1 PP - Packard Connector	Diaphragm = 1- VITON® 2- EPDM 3- KAPTON® - BUNA (Standard) Housing = 4 - 316 SS 4A - Steel-Nickel plate 5 - Spiral Restrictor 6 - Oxygen Cleaned 7 - Gold Contacts 12 - WRAS Approved

Installation Instructions

Adjusting the Set Point:

(Factory default setting is at the lowest value of the adjustment range)

- Remove DIN securing screw, leave DIN adaptor in place
- Insert a 5/64" **Allen key** into hole for the adjustment screw
- Turn the screw clockwise to increase or counter-clockwise to decrease set point
- For Vacuum models turn screw counter clockwise to increase the setting or clockwise to decrease

