



Explosion-Proof

AST46SW > SPDT Solid State Pressure Switch



The Model 46SW is a high accuracy Explosion-proof Pressure Switch, designed for use in a variety of applications. Applying digital compensation, this product offers top performance over a wide temperature range. Utilizing Krystal Bond Technology™, the sensing element will measure pressure in the most extreme temperature conditions. Where other sensor technologies will freeze or boil, the AST46SW uses a one piece stainless steel sensor to offer continuous operation. If linearity and repeatability are critical for your application, this product will exceed your expectations at an affordable price.

Benefits

- CSA30 (UL1203 / FM3615) Class I Div 1 and Zone 1 Group IIC Explosionproof - Groups A, B, C, D
- ANSI 12.27.08-1 Single Seal Approved
- ASIC Compensation
- Superb Temperature Performance
- Wide Operating Temperature
- Excellent Accuracy
- High Proof and Burst Pressure
- Factory Sealed

Applications

- Well Optimization
- Oil and Gas Pipelines
- Drilling Platforms
- CNG / Hydrogen Fill Stations
- Paint Booths
- RTU
- Combustion Controls

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)
Storage	-50 to 105°C (-58 to 221°F)

Thermal Limits

Compensated Range	-20 to 70°C (-4 to 158°F)
-------------------	---------------------------

Other

Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000 Hz.
EMI/RFI Protection:	Yes
Rating:	IP-66

Performance @ 25°C (77°F)

Error Tolerance	<±1.0% BFSL of line pressure
Over range Protection	2X rated line pressure, standard*
Burst Pressure	5X or 60,000PSI of line pressure, whichever is less
Pressure Cycles	> 100 million full pressure cycle

*For higher proof pressures, contact factory

Electrical Data

Excitation	10-28VDC
Current Consumption	<10mA
Set Point	See Chart on page 2
Output Load	1 Amp., Resistive
Reverse Polarity Protection	Yes



Ordering Information

46SW	A	05	P	E	T	1	G	00025	R	05	000	-Z
Series Type												
Process Connection A= 1/4"-18 Male NPT B= 1/8"-27 Male NPT C= 1/4"BSPP W= F250C Female Autoclave												
System Pressure Insert 2 digit code (chart 1)												
Pressure Unit P= PSI												
Switch Configurations E= SPDT [Form C]												
Electrical Connection T= 2ft. 18 AWG wires U= 4ft. 18 AWG wires W= 2 Meter 18 AWG wires												
Wetted Material** 0=17-4PH 1=316 L 2= Inconel 718												
Pressure Reference 0= Sealed Gauge G= Vented Gauge Pressure												
Switching Point Pressure: Insert 5 digit code (chart 2) [5-95% of system line pressure]												
Switching Direction F= Falling R= Rising												
Hysteresis: Insert 2 digit code (example: 1% is 01) [1% of line pressure minimum]												
Options No Options= 000												
Approval -Z= Add "-Z" for CRN Registered to ANSI/ASME B31.3. Contact factory for material, pressure, and process connection options.												

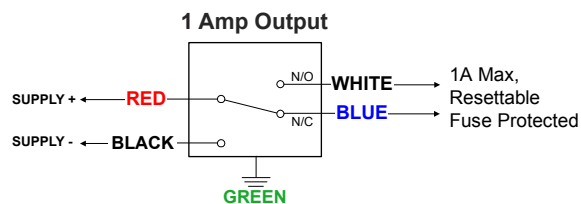
Pressure Ranges

Chart 1			
System Pressure ⁺	50	Code	01
	100		02
	250		03
	500		04
	1000		05
	3000		06
	5000		07
	7500		08
	10,000		09
	15,000		10
	20,000		11

Chart 2			
Switching Pressure ⁺	25	Code	00025
	50		00050
	100		00100
	250		00250
	500		00500
	1,000		01000
	2,500		02500
	5,000		05000
	10,000		10000

⁺For pressures not shown, please consult factory.

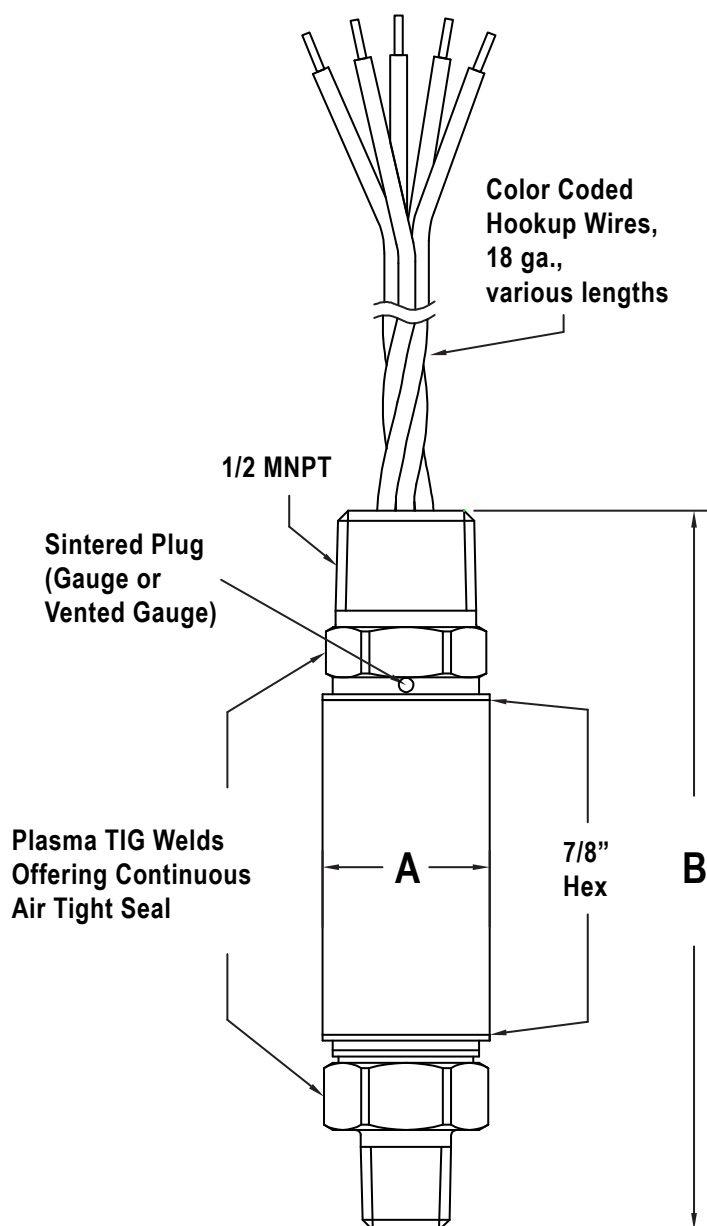
Wiring





Explosion-Proof

AST46SW > SPDT Solid State Pressure Switch



Model Series	Body Diameter	Overall Length
	"A"	"B"
AST4600	0.875"	3.64"
AST46HA	1"	4.3"
AST46PT (4-20mA)	1"	4.8"
AST46PT (Voltage)	1"	4.3"
AST46SW	1"	4.8"