



EXPLOSION-PROOF SPDT Solid State Pressure Switch AST46SW

Overview

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

- ATEX / IECEx: Class I, Zone 1, Ex d IIC T5 Gb (Ta = -40°C to 85°C)
- 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

Performance @ 25°C (77°F)

Error Tolerance	<±1.0% BFSL of line pressure
Over range Protection	2X rated line pressure, standard (for higher proof pressures, contact factory)
Burst Pressure	5X or 60,000PSI of line pressure, whichever is less

Environmental Data

Temperature

Operating	-40 to 85°C (-40 to 185°F)						
Storage	-55 to 105°C (-67 to 221°F)						
0-100% relative humidity, non-condensing							

Thermal Limits

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

Other

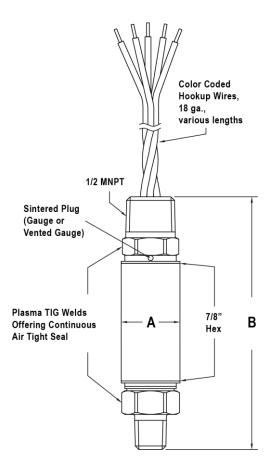
Shock	100G, 11 msec, 1/2 sine						
Vibration	10G peak, 20 to 2000 Hz.						
EMI/RFI Protection:	Yes						
Rating:	IP-66						

Electrical Data

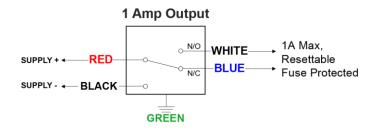
Excitation	10-28VDC						
Current Consumption:	400Hz						
Set Point	See Chart on Page 2						
Output Load:	Yes						
Reverse Polarity Protection	Yes						

EXPLOSION-PROOF AST46SW SPDT Solid State Pressure Switch

Dimensions



Model Series	Body Diameter "A"	Overall Length "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"				



EXPLOSION-PROOF

AST46SW SPDT Solid State Pressure Switch

Ordering Information

AST46SW	А	05	Р	Е	т	1	G	00025	R	05	000	-Z
Series Type												
Process Connection A= 1/4"-18 Male NPT C= 1/4"BSPP B= 1/8"-27 Male NPT W= F250C Female Autoclave												
System Pressure Insert 2 digit code 50 01 250 03 500 04 05 06 500 06 7500 08 7500 09												
15,000 10 20,000 11 consult factory for pressures not shown												
Pressure Unit P= PSI												
Switch Configurations E= SPDT [Form C]												
Electrical Connection T= 2ft. 18 AWG wires U= 4ft. 18 AWG wires W= 2 M	leter 18 AW	G wires										
Wetted Material 0= 17-4PH 1= 316L 2= Inconel 718												
Pressure Reference 0= Sealed Gauge G= Vented Gauge Pressure												
Switching Point Pressure Insert 5 digit code [5-95% of system line pressure] 50 100 250 500 500 0100 2,500 5,000 0,0000 0,												
Switching Direction F= Falling R= Rising												
Hysteresis: Insert 2 digit code (example: 1% is 01) [1% of line	pressure mi	nimum]										
Options= 000												
Approval Z= Add "-Z" for CRN Registered to ANSI/ASME B31.3. Contact	factory for r	naterial, pre	ssure, and pro	cess connectio	on options.							

NORTH AMERICA

ASIA

American Sensor Technologies, Inc. (AST), a TE Connectivity Company Tel: 800-522-6752 Email: <u>customercare.molive@te.com</u> Hong Kong Sensor Technologies (HKST), a TE Connectivity Company Tel: 0400-820-6015 Email: <u>customercare.shzn@te.com</u>

TE.com/sensors

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.

