



STAINLESS STEEL

SPDT Pressure

AST20SW

Overview

The Model 20SW is a high accuracy Industrial ASIC 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 20SW 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

- ✦ ASIC Compensation
- ✦ Superb Temperature Performance
- ✦ Wide Operating Temperature Range
- ✦ Excellent Accuracy
- ✦ High Proof and Burst Pressure
- ✦ Factory Sealed

Applications

- ✦ Hydraulics Controls
- ✦ Boilers
- ✦ Marine
- ✦ Railways

STAINLESS STEEL

AST20SW SPDT Pressure Switch

Performance @ 25°C (77°F)

Error Tolerance	< ±0.1% BFSL of line pressure
Over Range Protection	2X Rated Pressure, standard (For higher proof pressures, contact factory)
Burst Pressure	5X or 60,000PSI of line pressure, whichever is less
Pressure Cycles	> 100 million full pressure cycle

Environmental Data

Temperature

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

0-100% relative humidity, non-condensing

Thermal Limits

Compensated Range -20-70°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

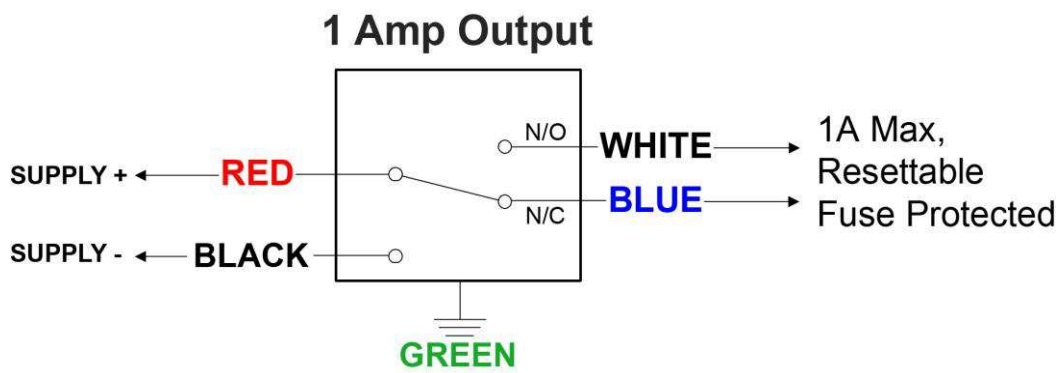
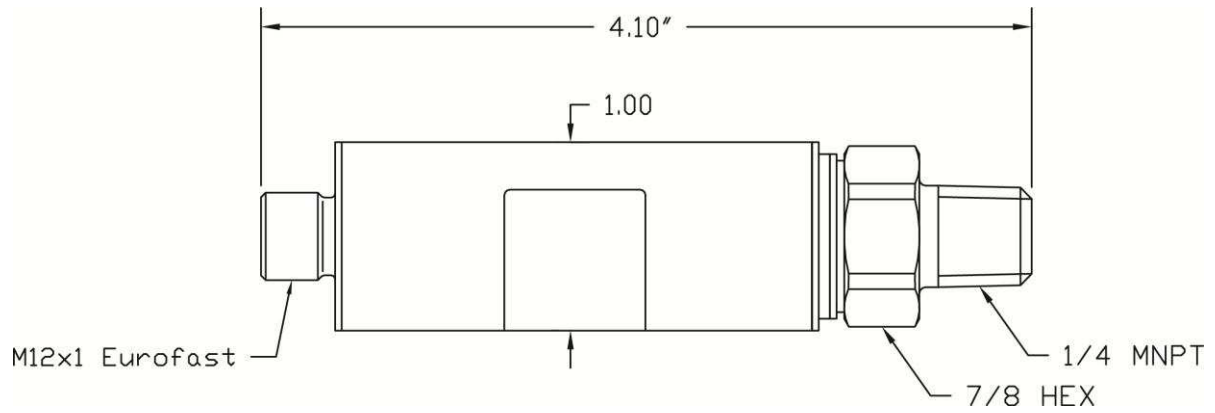
Electrical Data

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

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AST20SW SPDT Pressure Switch

Dimensions



STAINLESS STEEL

AST20SW SPDT Pressure Switch

Ordering Information

AST20SW	A	05	P	E	Y	1	G	00025	F	05	000
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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

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

consult factory for pressures not shown

Pressure Unit
 P= PSI

Switch Configurations
 E= SPDT [Form C]

Electrical Connection
 Y= M12x1

Wetted Material**
 0= 17-4PH 1= 316L 2= Inconel 718

Pressure Reference
 Number (0, 1, 2)= Sealed Gauge G= Vented Gauge Pressure

Switching Point Pressure
 Insert 5 digit code [5-95% of system line pressure]

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

consult factory for pressures not shown

Switching Direction
 F= Falling R= Rising

Hysteresis: Insert 2 digit code (example: 1% is 01) [1% of line pressure minimum]

Options= 000

*For optional pressure ports and electrical interfaces please consult factory. 1/8" NPT Male not available under 50PSI or with 316L. F250C Female Autoclave is the only option for 10,000 to 20,000PSI, not available in 316L. **316L available up to 10,000 PSI. For Inconel 718 consult factory on availability.

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