

Stainless Steel SPDT Pressure Switch



AST20SW



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

AST20SW 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

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)
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Other

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

Performance @ 25°C (77°F)

Error Tolerance	$\leq \pm 1.0\%$ 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
Output Load	1 Amp., Resistive
Reverse Polarity Protection	Yes



Ordering Information*

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

Series Type

Process Connection*

A= 1/4" NPT Male
B= 1/8" NPT Male
C= 1/4" BSPP Male
W= F250C Female Autoclave

System Pressure

Insert 2 digit code (chart 1)

Pressure Unit

P= PSI

Switch Configurations

E= SPDT [Form C]

Electrical (for wiring information visit: <http://www.astensors.com/wiring.php>)

Y= M12x1

Wetted Material**

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

Pressure Reference

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

Switching Point Pressure

Insert 5 digit code (chart2) (5-95% of system line pressure)

Switching Direction

F= Falling R= Rising

Hysteresis

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

Options

No 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.

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

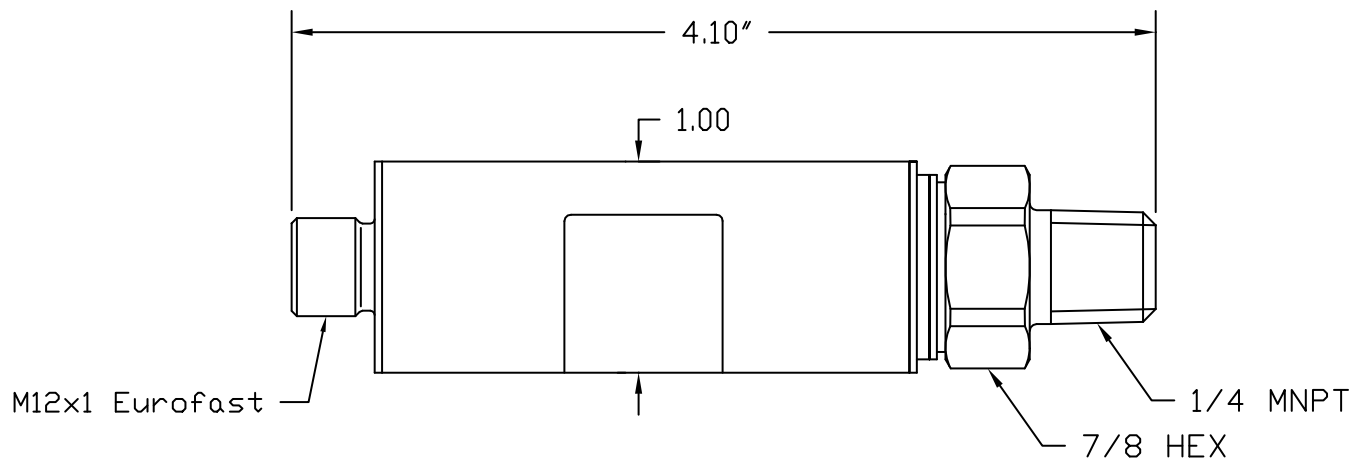
⁺For ranges not shown, please consult factory

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

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1 Amp Output

