



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

Performance @ 25°C (77°F)

Error Tolerance	$< \pm 0.1\%$ BFSL of line pressure
Over Range Protection	2X Rated Pressure, standard (For higher proof pressures, contact factory)
Burst Pressure	$5 \mathrm{X} \mbox{ or } 60,000 \mathrm{PSI} \mbox{ of line pressure, whichever is less}$
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

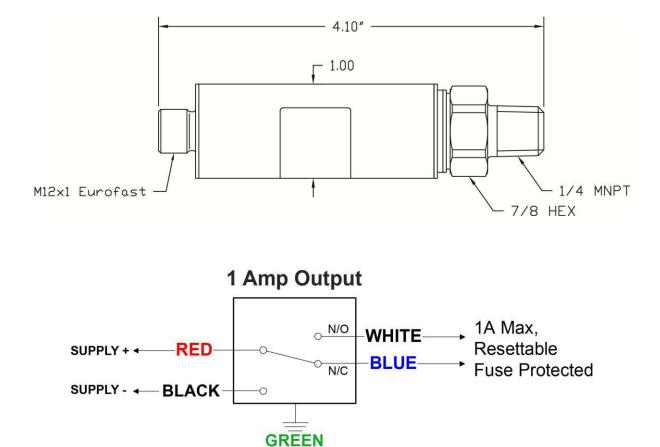
Shock	100G, 11 msec, 1/2 sine
Vibration	10G peak, 20 to 2000 Hz.
EMI/RFI Protection:	Yes
Rating:	IP-66

Electrical Data

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

STAINLESS STEEL AST20SW SPDT Pressure Switch

Dimensions



STAINLESS STEEL

AST20SW SPDT Pressure Switch

Ordering Information

AST20SW	А	05	Р	Е	Y	1	G	00025	F	05	000
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 1000 05 3000 06 5000 07 000 09 10,000 10 10,000 10 11 11											
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] 25 00025 100 00100 250 00100 500 00050 00000 00000 250 00000 00000 00000											
Switching Direction F= Falling R= Rising											
Hysteresis: Insert 2 digit code (example: 1% is 01) [1% c	of line pres	sure minim	ium]								

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 Income 718 consult factory on availability."

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