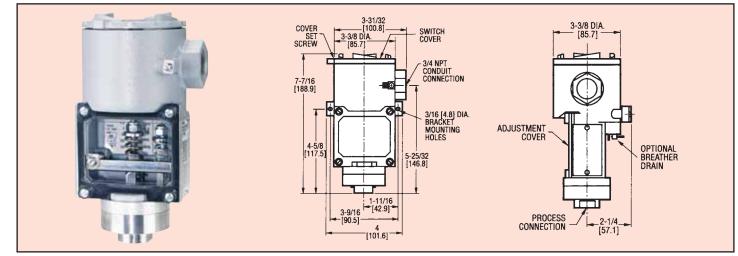


Diaphragm Operated Pressure Switches Visible Setpoint, Adjustable Deadband, Hermetically Sealed Snap Switch,

Visible Setpoint, Adjustable Deadband, Hermetically Sealed Snap Switch Weatherproof and Explosion-proof



Weatherproof and Explosion-Proof in One Economical Enclosure

Extremely rugged construction assures excellent reliability in chemical, petroleum and industrial plants. New design also provides burst pressure protection to 3000 psi (206 bar). The rolling diaphragm design maintains a constant effective area to minimize friction. This results in a minimum deadband as low as 5% of full scale. Since many applications require higher deadbands, the SA1100 includes a separate adjustment of this when necessary. A pump being used to control liquid level in a tank would be a typical situation where this feature would be important. Both setpoint and deadband adjustments are protected, yet clearly visible behind a clear polycarbonate window and are fully isolated from the electrical components for additional safety. A 7/16" open-end wrench is the only tool required to change settings. Terminal blocks are provided for switch wiring connections and both internal and external ground screws are included. Standard housing is weatherproof to NEMA standards 1 through 4X and 13; explosion-proof to NEMA 7, Class 1, Groups B, C & D; NEMA 9, Class II, Groups E, F & G. Optional construction adds drain to meet IP54.

APPLICATIONS

Chemical, petroleum, food and drug processing industries. Used indoor, outdoor or in explosion-proof area.

SPECIFICATIONS

Wetted Materials: See pressure chamber and diaphragm material in model chart. Temperature Limits: -30 to 180°F (-35° to 82°C) standard. ATEX compliant at Ambient Temperature: -4 to 167°F (-20 to 75°C) Process Temperature: -4 to 167°F (-20 to 75°C).

Pressure Limit: 1200 psig (82.6 bar).

Enclosure Rating: Weatherproof and Explosion-proof. Listed with UL and CSA for Class I, Groups B, C and D; Class II Groups E, F, and G. ATEX Compliant C€ 0344 (UI 2 G EEx d IIC T6 Process Temperature 75°C. Weatherproof UL Rated Type 4. Meets NEMA 4X.

Switch Type: SPDT or DPDT snap switch.

Electrical Rating: See model chart.

Electrical Connections: Screw terminal.

Conduit Connection: 3/4" female NPT. **Process Connection:** 1/4" or 1/2" female NPT.

Mounting Orientation: Within 20° of vertical.

Set Point Adjustment: Internal 7/16" hex nuts.

Weight: 3.5 lb (1.6 kg).

Deadband: See deadband chart.

Agency Approvals: UL, CSA, CE and ATEX.

Example	SA11	13	E	A	4	K	1		SA1113E-A4-K1 Pressure Control; weatherproof
									NEMA 4X, explosion proof NEMA 7&9; aluminum pres
									sure chamber, Buna-N diaphragm and O-ring; 1/4 inch
									female NPT process connection; adjustable dead-
									band, automatic reset; SPDT snap acting switch; ad-
_									justable range 30-500 psig.
Construction	SA11								Series Designator, weatherproof NEMA 4X, explosion proof NEMA 7, 9.
Adjustable		11							Adjustable range 10-150 psig (0.7-10 bar)
Pressure		12							Adjustable range 20-250 psig (1.4-17.2 bar)
Ranges		13							Adjustable range 30-500 psig (2.0-34.0 bar)
Circuit			E						Snap action switch rated 15A @ 125/250/480 VAC, 1/8
(Switch)									HP @ 125 VAC, 1/4 HP @ 250 VAC, 1/2 A @ 125 VD0
Options									resistive, 1/4 A @ 250 VDC resistive.
			HS						Hermetically sealed snap action switch rated 5A @
									125/250 VAC, 5A resistive @ 30 VDC*
			HG						Hermetically sealed snap action switch with gold
									contacts rated 1A @ 125 VAC, 1A resistive @ 30 VDC
Pressure				A					Aluminum
Chamber				s					316 SS
Material									
(Wetted)									
Diaphragm					4				Buna-N diaphragm and O-ring
Material					5				Fluorocarbon diaphragm and O-ring
(Wetted)									4957
Circuit						K			SPDT
(Switch)						L			DPDT (not available with HS or HG switch options)
Type				-		-	2		4/0 is all famoula NDT
Process Connection							2		1/2 inch female NPT
			_			_	-	AT	ATEX certified construction
Options								DRAIN	Housing with drain - allows condensate to be draine
								DRAIN	from inside enclosure (meets NEMA 3R instead of 4X
									TIOTH INSIDE ENCLOSULE (THEELS NEIVIA 3R INSIE80 OF 4A

*Options that do not have ATEX.

Model
SA1111E-A4-K1
SA1111E-S5-K2
SA1111E-S5-K2

Switch Deadband Chart

Range Number	Oper	stable rating		Dead	band	e Minimum band High		Approximate Maximum	
Number	Ка	nge	Lo	bw.	HIQ	IN	Deadband		
	psig	bar	psig	bar	psig	bar	psig	bar	
11	10-150	0.7-10	4.0	0.28	7.5	0.52	75	5.2	
12	20-250	1.4-17.2	5.0	0.35	12.5	0.86	150	10	
13	30-500	2.0-34	12	0.83	45	3.1	300	21	