

Compact Pressure Switch

Series 7000

Features

- ▶ Compact size
- ▶ Multiple electrical connections
- ▶ SPDT snap action micro-switch
- ▶ NEMA 1 or 4 (depending on electrical connection)
- ▶ Factory preset or field adjustable
- ▶ Available in stainless steel

Applications

- ▶ Air proving in HVAC systems
- ▶ Engine monitoring
- ▶ Hydraulic power units
- ▶ Mobile hydraulics
- ▶ Pump or compressor control
- ▶ Hydraulic and pneumatic braking systems



General Specifications*

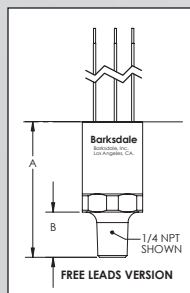
Electrical Characteristics:	All models incorporate Underwriters' Laboratories, Inc. and CSA Listed single pole double throw snap-action switching elements.
Accuracy:	±8% typical
Switch:	SPDT snap action; single circuit
Wetted Parts:	
Diaphragm type: (ranges 2, 3)	300 series stainless steel fitting and Buna-N diaphragm.
Piston type: (ranges 4, 5, 6, 7)	300 series stainless steel fitting.
Electrical Connection:	See product configurator for electrical connection options.
Enclosure Ratings:	NEMA 1; NEMA 4
Pressure Connection:	1/4" NPT (standard)

* See product configurator for additional options.

Approvals:	
UL:	Recognized components per UL 508 standard, industrial control equipment.
CSA:	Listed per CSA Guide 380-W1.16 class 3231
PED (European):	Compliant to PED 97/23/EC standard
Temperature Range:	
Operating:	-40° to +180°F - piston type 0° to 180°F - diaphragm type
Storage:	-40° to +200°F
EMI/RFI:	
Vibration:	10 g's per MIL-STD 202, method 204, condition A
Shock:	50 g's per MIL-STD 202, method 213, condition A
Adjustment Instructions:	
Pressure Setpoint:	Turn adjustment screw clockwise to increase pressure; counterclockwise to decrease pressure.
Shipping Weight:	Stainless steel: approximate .25 lbs.

SS Fitting Dimension

FITTING	DIMENSION 'A'	DIMENSION 'B'
1/4 NPT	2.25 [57.15]	.75 [19.05]
1/8 NPT	2.62 [66.55]	1.10 [27.94]
* 7/16 NPT	2.25 [57.15]	.75 [19.05]
* G 1/4	2.25 [57.15]	.75 [19.05]



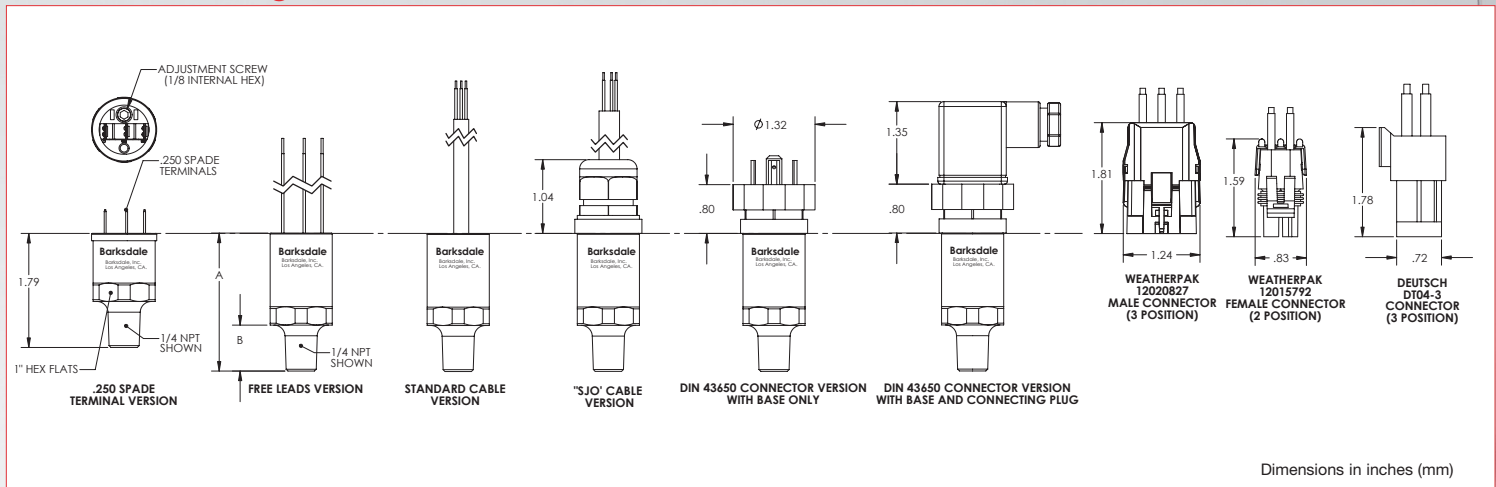
Wiring Code

CONTACT	FREE LEADS	PVC GRAY CABLE	TYPE 'SJO' CABLE	DIN 43650 TYPE CONNECTOR
COMMON	PURPLE	WHITE	WHITE	POSITION 1
NORMALLY OPEN	RED	RED	GREEN	POSITION 3
NORMALLY CLOSED	BLUE	BLACK	BLACK	POSITION 2

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Technical Drawing



Product Configurator

Example **72 4 S -2 4 -1 B**

Basic Configuration

71	Factory set & permanently locked
72	Field adjustable
73	Field adjustable with factory pre-set

* Highlighted options represent those most frequently used. Select these common options for improved availability. (5/21)

Pressure Range

Range	Adjustable Range				Approx. Deadband (Actuation Value) psi	*Operating Pressure (Max) psi	Max. Proof Pressure psi
	Decreasing - psi		Increasing - psi				
	Min	Max	Min	Max			
2	6	35	8	50	2 - 15	80	100
3	30	90	40	120	5 - 30	130	140
4	150	700	250	1000	30 - 300	4000	6000
5	500	2300	600	3000	100 - 800	4000	6000

* Operating pressure is defined as the maximum pressure at which the pressure switch can maintain set point accuracy.

Fitting Material

S	300 series stainless steel
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Limit Switch

-1	SPDT, snap-action switch, 5 Amps @ 125/250 VAC (silver contacts)
-2	SPDT, snap-action switch, 0.1 Amps @ 125/250 VAC (gold contacts)
-4	SPST, N.O., snap-action switch, 5 Amps @ 125/250 VAC (silver contacts)
-5	SPST, N.C., snap-action switch, 5 Amps @ 125/250 VAC (silver contacts)
-6	SPST, N.O., snap-action switch, 0.1 Amps @ 125/250 VAC (gold contacts)
-7	SPST, N.C., snap-action switch, 0.1 Amps @ 125/250 VAC (gold contacts)

Options

-Wxxx	Extra wire length (XXX = inches)
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Set Point

-XXX	Set point (not required for field adjustable)
R	Rising pressure
F	Falling pressure

Wetted Material

B	Buna-N
N	Neoprene (all except -4 and -5 pressure range codes)
V	Viton® Diaphragm
D	Disogrin O-ring (available in piston models only)

Process Connection³

-1	1/8" NPTM
-2	1/4" NPTM
-3	7/16-20 with O-ring seal
-4	G1/4

Electrical Connection

1	.250 x .032 male spade quick disconnects (NEMA 1), not available with brass
2	.110 x .020 male spade quick disconnects (NEMA 1), not available with brass, only SPDT
3	Free leads. 18 gauge, 18" long (NEMA 1)
4	Unshielded PVC jacketed cable, 18 AWG, 18" long (NEMA 4)
5 ²	DIN 43650-type connector - base only (available only with stainless steel & factory set models - NEMA 4)
6 ²	DIN 43650-type connector - with base & plug (available with factory set models - NEMA 4)
7 ²	SJO type cable, 3 wire, 18 AWG, 18" long (available only with factory set models - NEMA 4)
8 ^{1,3}	Weatherpak connector, female, 2-position, two 18" free wires, for normally closed circuits
9 ^{1,3}	Weatherpak connector, female, 2-position, two 18" free wires, for normally open circuits
10 ^{1,3}	Weatherpak, connector, male, 3-position, three 18" free wires, used only with SPDT limit switches
11 ^{1,3}	Deutsch connector, female, 3-position, three 18" free wires, used only with SPDT limit switches

NOTES:

- Not UL/CSA certified
- Available only with factory set & locked models
- Minimum quantities may be required.