

Compact Pressure Switch

Series 7000

Features

- ▶ Compact size
- ▶ Multiple electrical connections
- ▶ True SPDT snap action micro-switch
- ▶ NEMA 1 or 4X
- ▶ Factory preset or field adjustable
- ▶ Available in corrosion-resistant thermoplastic, stainless steel or brass

Applications

- ▶ Pool & spa heaters
- ▶ Beverage dispensers
- ▶ Air proving in HVAC systems
- ▶ Engine monitoring
- ▶ Hydraulic power units
- ▶ Mobile hydraulics
- ▶ Pump or compressor control
- ▶ Hydraulic and pneumatic braking systems



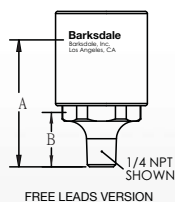
General Specifications*

Electrical Characteristics:	All models incorporate Underwriters' Laboratories, Inc. and CSA Listed single pole double throw snap-action switching elements.
Accuracy:	±0.5 psi for range "0" ±1 psi for range "1" ±8% typical for ranges "2" to "7"
Switch:	SPDT snap action; single circuit
Wetted Parts: Diaphragm type: (range 0, 1, 2, 3) Piston type: (ranges 4, 5, 6, 7)	NORYL® plastic fitting with NORYL® plastic housing, or 300 series stainless steel fitting, or brass fitting and Buna-N diaphragm. 300 series stainless steel or brass 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.

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]



FOR (-6 AND -7) PRESSURE RANGE BRASS FITTINGS, ADD .51 LENGTH TO ABOVE DIMENSIONS 'A' AND 'B'

* Available in stainless steel only

Approvals:

UL:	Recognized components per UL 508 standard, industrial control equipment.
CSA:	Listed per CSA Guide 380-W1.16 class 3231
FDA/NSF:	Certified per NSF 18
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:	Plastic: approximate .10 lbs. Stainless steel: approximate .25 lbs.

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

Barksdale
CONTROL PRODUCTS

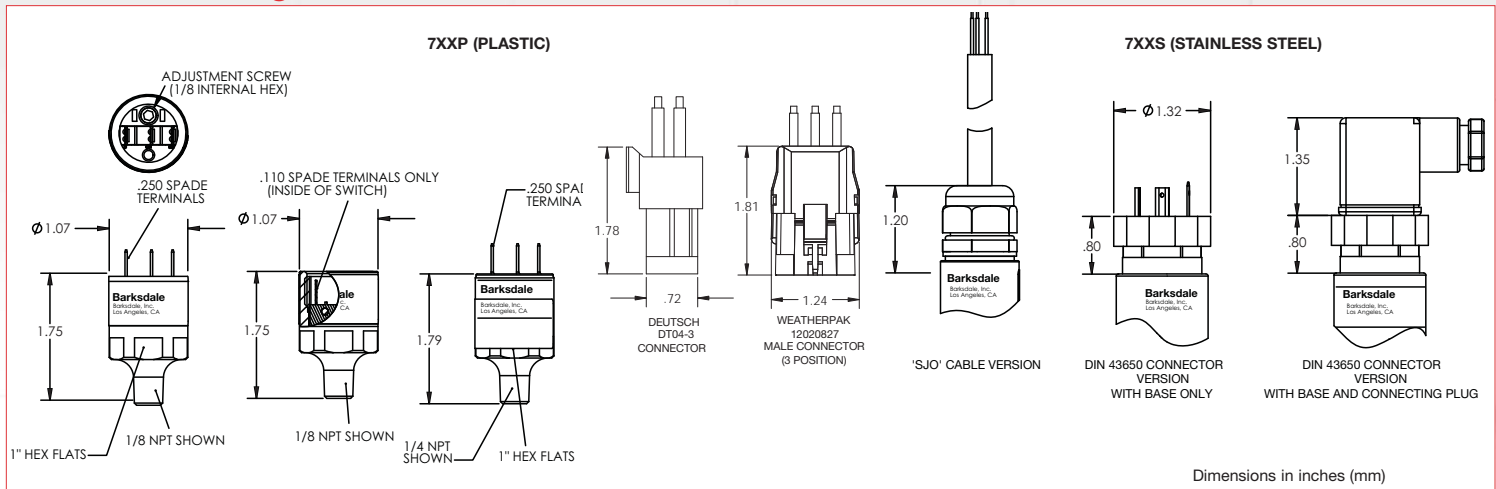
Barksdale, Inc./Barksdale GmbH
A Subsidiary of Crane Co.



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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

Pressure Range

Range	Adjustable Range				Approx. Deadband (Actuation Value)	*Operating Pressure (Max)	Max. Proof Pressure
	Decreasing - psi		Increasing - psi				
	Min	Max	Min	Max			
0 ¹	1.25	3	2	4	1.5 (MAX)	20	20
1	2	7	3	10	.5 - 4	20	50
2	6	35	8	50	2 - 15	80	100
3 ²	30	90	40	120	5 - 30	130	140
4 ³	150	700	250	1000	30 - 300	4000	6000
5 ³	500	2300	600	3000	100 - 800	4000	6000
6 ⁴	20	150	30	200	10 - 100	700	2000
7 ⁴	80	400	150	500	20 - 150	700	2000

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

Fitting Material

P	Noryl® plastic (available with pressure ranges 0 - 3 only)
F	Noryl® plastic with NSF/FDA compliance (available with pressure ranges 0 - 3 only)
S	300 series stainless steel
B ⁷	Brass (only available with pressure ranges 6 and 7, and 1/8" NPT process connection)

Limit Switch

-1 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 ¹	SPST, N.O., snap-action switch, 5 Amps @ 125/250 VAC (silver contacts)
-5 ¹	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)

NOTES:

- Only 3 amps available @ 125/250VAC with silver contact limit switches for range '0'
- Not UL/CSA certified
- Piston models - only available in stainless steel
- Available only in brass fittings (use Viton diaphragms as standard - no price adder)
- Available only with stainless steel or brass, factory set & locked models
- Minimum quantities may be required.
- Brass fitting only available in 1/8" NPT, pressure ranges 6 or 7, electrical connections 3 or 4.

Options

-Wxxx Extra wire length (XXX = inches)

Set Point

-XXX Set point (not required for field adjustable models)

R Rising pressure

F Falling pressure

Wetted Material

B	Buna-N
N	Neoprene (not available with "F" fitting material)
V	Viton® Diaphragm (not available with "F" fitting material)
D	Disigrin O-ring (available in stainless steel & piston models only)
F	FDA approved - Buna-N (available in stainless steel & piston models only)

Process Connection ⁶

-1	1/8" NPTM
-2	1/4" NPTM
-3	7/16-20 with O-ring seal (available only with stainless steel models)
-4	G1/4 (available only with stainless steel models)

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
3	Free leads. 18 gauge, 18" long (available only with stainless steel models - NEMA 1)
4	Unshielded PVC jacketed cable, 18 AWG, 18" long, (available only with stainless steel models - NEMA 4)
5 ⁵	DIN 43650-type connector - base only (available only with stainless steel & factory set models - NEMA 4)
6 ⁵	DIN 43650-type connector - with base & plug (available only with stainless steel & factory set models - NEMA 4)
7 ⁵	SJO type cable, 3 wire, 18 AWG, 18" long (available only with stainless steel & factory set models - NEMA 4)
8 ⁶	Weatherpak connector, female, 2-position, two 18" free wires, for normally closed circuits
9 ⁶	Weatherpak connector, female, 2-position, two 18" free wires, for normally open circuits
10 ⁶	Weatherpak, connector, male, 3-position, three 18" free wires, used only with SPDT limit switches
11 ⁶	Deutsch connector, female, 3-position, three 18" free wires, used only with SPDT limit switches