

J-SERIES Miniature Pressure Switches

Low-Cost Switches with Non-Adjustable Set Points

Features:

- Tamperproof, factory-set, non-adjustable set points.
- Fixed deadband.
- Environmentally sealed against dust, water, oil and salt spray, e.g., for off-highway equipment.
- Vented construction for stable set points throughout operating range.
- Vibration and shock resistant to 10 G's.
- Precision electrical snap-action switch.

General Description:

J-Series miniature pressure switches have factory-set non-adjustable set points and fixed deadband, with diaphragm/piston sensor. J-Series switches are CSA approved and UL listed under "Industrial Control Equipment". J-Series switches are sealed with specially compounded epoxy that maintains its sealing integrity from -40 to 250°F.

Proof pressure:

250 psig. (Consult factory for higher pressures).

Process connection:

Standard: 1/8" NPT Ext, 1/8" NPT Int, 1/4" NPT Ext.
Optional: 1/4" NPT Int (eighth digit "3").

Standard Electrical Ratings

5 Amp Res., 125 VAC
5 Amp Res., 250 VAC
3 Amp Res., 28 VDC



Standard Temperature Ratings

Ambient: -4°F (-20°C) to 140°F (60°C)
Fluid: -4°F (-20°C) to 180°F (82°C)

Wetted Materials (Process Connection & Diaphragm)

Standard: Brass and Buna "N"
Optional Process Connections:

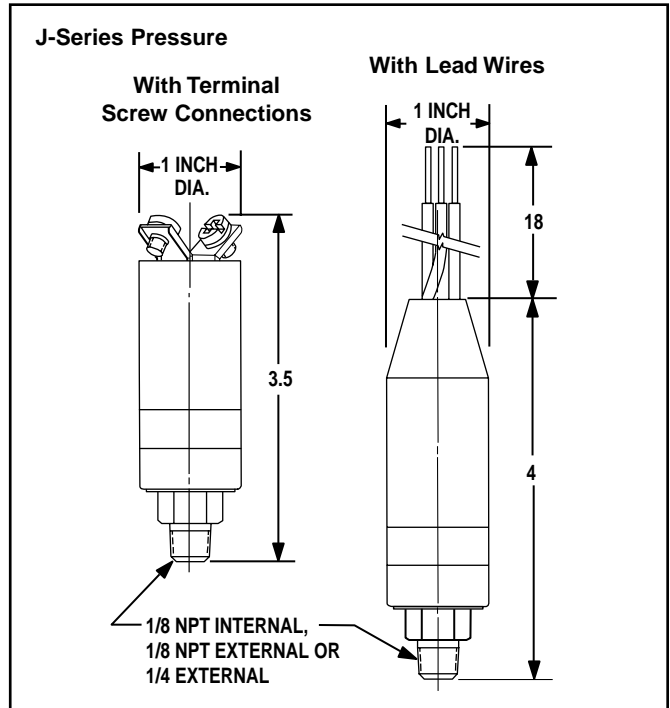
- 316 SS (sixth digit "4")
- Carbon steel (sixth digit "6")

Optional Diaphragms:

- Viton (seventh digit "2")
- Neoprene (seventh digit "3")
- Ethylene propylene (seventh digit "6")
- Fluorosilicone (seventh digit "7")



Dimensions (inches)



Switch Options

Gold contacts for low power circuits: Add Suffix "P"
Tight deadband, 25-50% reduction: Add Suffix "T"
11 Amp Res., 125 VAC contacts: Add Suffix "Y"

How to Select and Order

ASCO J-Series switches are a single switch and transducer assembly.

How to Select

1. Select type of switch (normally open, normally closed or SPDT and screw terminal or wire leads).
2. Select desired set point for either decreasing pressure or increasing pressure.
3. Select desired process connection.

How to Order

Simply order the selected J-Series pressure switch by catalog number, e.g., JB67A218A describes a normally open, screw terminal pressure switch with set point decreasing of 6.5 psig and set point increasing of 8.5 psig, 1/8" NPT external brass process connection and Buna "N" diaphragm.

Options

Add appropriate suffix or change appropriate digit in catalog number for desired option, e.g., JB67A228A^P describes a normally open, screw terminal pressure switch with optional viton diaphragm (seventh digit "2") and gold contact snap switch (suffix "P").

Select J-Series pressure switch below

Set Point ① ②		Mfg. Set Point Tolerance (psig)	1/8" NPT External Process Connection	1/4" NPT External Process Connection	1/8" NPT Internal Process Connection ③
Decreasing Pressure (psig)	Increasing Pressure (psig)		Catalog No.	Catalog No.	Catalog No.
Normally open, screw terminals, Brass and Buna "N"					
6.5	8.5	1.2	JB67A218A	JB67A214A	JB67A215A
10.5	12.5	1.5	JB57A218A	JB57A214A	JB57A215A
18.5	22	2	JB47A218A	JB47A214A	JB47A215A
30	35	3	JB37A218A	JB37A214A	JB37A215A
40	45	4	JB27A218A	JB27A214A	JB27A215A
56	65	6	JB17A218A	JB17A214A	JB17A215A
71	85	7	JC37A218A	JC37A214A	JC37A215A
93	108	8	JC27A218A	JC27A214A	JC27A215A
138	162	12	JC17A218A	JC17A214A	JC17A215A
Normally open, 18" lead wires, Brass and Buna "N"					
6.5	8.5	1.2	JB68A218A	JB68A214A	JB68A215A
10.5	12.5	1.5	JB58A218A	JB58A214A	JB58A215A
18.5	22	2	JB48A218A	JB48A214A	JB48A215A
30	35	3	JB38A218A	JB38A214A	JB38A215A
40	45	4	JB28A218A	JB28A214A	JB28A215A
56	65	6	JB18A218A	JB18A214A	JB18A215A
71	85	7	JC38A218A	JC38A214A	JC38A215A
93	108	8	JC28A218A	JC28A214A	JC28A215A
138	162	12	JC18A218A	JC18A214A	JC18A215A
Normally closed, screw terminals, Brass and Buna "N"					
6.5	8.5	1.2	JB67A218B	JB67A214B	JB67A215B
10.5	12.5	1.5	JB57A218B	JB57A214B	JB57A215B
18.5	22	2	JB47A218B	JB47A214B	JB47A215B
30	35	3	JB37A218B	JB37A214B	JB37A215B
40	45	4	JB27A218B	JB27A214B	JB27A215B
56	65	6	JB17A218B	JB17A214B	JB17A215B
71	85	7	JC37A218B	JC37A214B	JC37A215B
93	108	8	JC27A218B	JC27A214B	JC27A215B
138	162	12	JC17A218B	JC17A214B	JC17A215B
Normally closed, 18" lead wires, Brass and Buna "N"					
6.5	8.5	1.2	JB68A218B	JB68A214B	JB68A215B
10.5	12.5	1.5	JB58A218B	JB58A214B	JB58A215B
18.5	22	2	JB48A218B	JB48A214B	JB48A215B
30	35	3	JB38A218B	JB38A214B	JB38A215B
40	45	4	JB28A218B	JB28A214B	JB28A215B
56	65	6	JB18A218B	JB18A214B	JB18A215B
71	85	7	JC38A218B	JC38A214B	JC38A215B
93	108	8	JC28A218B	JC28A214B	JC28A215B
138	162	12	JC18A218B	JC18A214B	JC18A215B
SPDT (Form "C" contact), 18" lead wires, Brass and Buna "N"					
6.5	8.5	1.2	JB68A218C	JB68A214C	JB68A215C
10.5	12.5	1.5	JB58A218C	JB58A214C	JB58A215C
18.5	22	2	JB48A218C	JB48A214C	JB48A215C
30	35	3	JB38A218C	JB38A214C	JB38A215C
40	45	4	JB28A218C	JB28A214C	JB28A215C
56	65	6	JB18A218C	JB18A214C	JB18A215C
71	85	7	JC38A218C	JC38A214C	JC38A215C
93	108	8	JC28A218C	JC28A214C	JC28A215C
138	162	12	JC18A218C	JC18A214C	JC18A215C

① Values shown are nominal.

② Deadband value is difference between the increasing and decreasing set points.

③ May be used for panel or bracket mounting.