

H-SERIES Miniature Pressure Switches

Low-Cost Switches with Adjustable Set Points

Features:

- Field adjustable set points.
- Fixed deadband.
- Choice of open frame type, general purpose or watertight enclosure.
- Small size.
- Mounts in any position.
- Rugged and vibration resistant, e.g., for compressors.
- Visual adjustment scales in psig and bars.

General Description:

H-Series miniature pressure switches have field adjustable set points and fixed deadband, with diaphragm/piston sensor. They are available in open frame construction, Type 1 general purpose or Type 4 watertight enclosures. The resilient diaphragm/piston construction helps provide long life and maintains set point repeatability despite environmental temperature variations. The full size electrical switch is a precision UL listed, snap-action type. H-Series switches are CSA approved and are UL listed under "Industrial Control Equipment".

Proof pressure:

250 psig. (Consult factory for higher pressures).

Process connection:

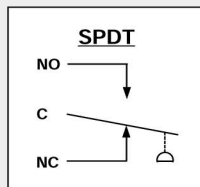
Standard: 1/8" NPT Ext, 1/8" NPT Int, 1/4" NPT Ext.
Optional: 1/4" NPT Int (eighth digit "3").

Standard Electrical Ratings

15 Amp Res., 125 VAC
10 Amp Res., 250 VAC
1/8 HP, 125 VAC
1/4 HP, 250 VAC
1/2 Amp Res., 125 VDC
1/4 Amp Res., 250 VDC



① Open frame construction, UL recognized component.



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:

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

Standard Temperature Ratings

Ambient: -4°F (-20°C) to 140°F (60°C)

Fluid: -4°F (-20°C) to 180°F (82°C)

Switch Options

See page 34 for optional snap switches.

How to Select and Order

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

How to Select

1. Select type of switch (open frame, general purpose or watertight)..
2. Select the adjustable operating range based on the desired actuation pressure.
3. Select desired process connection.

How to Order

Simply order the selected H-Series pressure switch by catalog number, e.g., HB46A218 describes an open frame pressure switch with adjustable operating range of 4 to 12 psig, 1/8" NPT external brass process connection and Buna "N" diaphragm.

Options

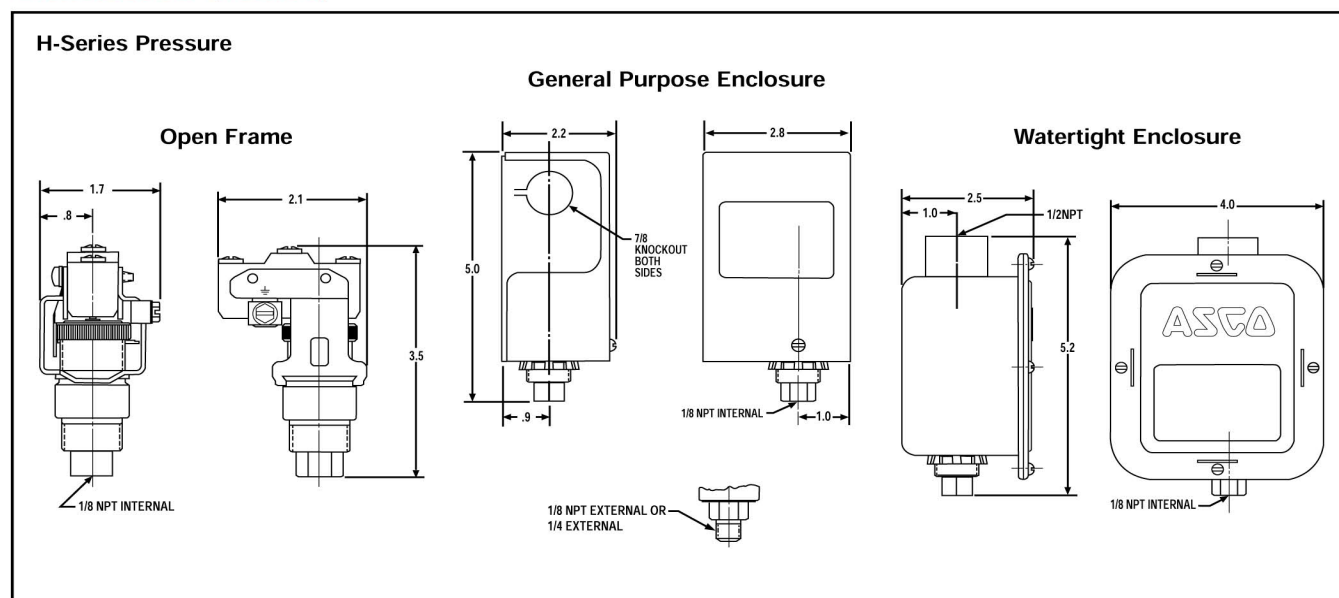
Add appropriate suffix or change appropriate digit in catalog number for desired option, e.g., HB46A2 2 8 P describes an open frame pressure switch with optional FKM diaphragm (seventh digit "2") and gold contact snap switch (suffix "P").

Select H-Series pressure switch below

Adjustable Operating Range (psig)	Fixed Deadband At Mid-Range (psig) ①	SPDT (Form “C” Contact), Brass and Buna “N”		
		1/8” NPT External Process Connection	1/4” NPT External Process Connection	1/8” NPT Internal Process Connection ②
		Catalog No.	Catalog No.	Catalog No.
Open frame construction				
4 - 12	1.6	HB46A218	HB46A214	HB46A215
8 - 25	1.8	HB36A218	HB36A214	HB36A215
20 - 50	2.4	HB26A218	HB26A214	HB26A215
35 - 80	3.5	HB16A218	HB16A214	HB16A215
40 - 120	7.0	HC26A218	HC26A214	HC26A215
80 - 200	10.0	HC16A218	HC16A214	HC16A215
Type 1 - General purpose enclosure				
4 - 12	1.6	HB40A218	HB40A214	HB40A215
8 - 25	1.8	HB30A218	HB30A214	HB30A215
20 - 50	2.4	HB20A218	HB20A214	HB20A215
35 - 80	3.5	HB10A218	HB10A214	HB10A215
40 - 120	7.0	HC20A218	HC20A214	HC20A215
80 - 200	10.0	HC10A218	HC10A214	HC10A215
Type 4 - Watertight enclosure				
4 - 12	1.6	HB41A218	HB41A214	HB41A215
8 - 25	1.8	HB31A218	HB31A214	HB31A215
20 - 50	2.4	HB21A218	HB21A214	HB21A215
35 - 80	3.5	HB11A218	HB11A214	HB11A215
40 - 120	7.0	HC21A218	HC21A214	HC21A215
80 - 200	10.0	HC11A218	HC11A214	HC11A215

① Values shown are nominal. ② May be used for panel or bracket mounting.

Dimensions (inches)



H-SERIES Miniature Pressure Switches

Suffix S: Low-Cost Switches with Adjustable Set Points and Adjustable Deadband

Features:

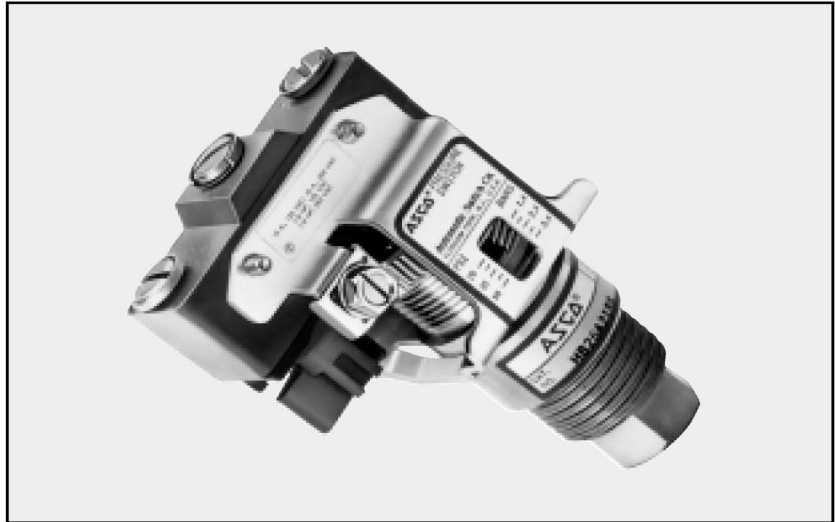
- Field adjustable set points.
- Limited adjustable deadband.
- Choice of open frame type, general purpose or watertight enclosure.
- Small size.
- Mounts in any position.
- Rugged and vibration resistant, e.g., for compressors.
- Visual adjustment scales in psig and bars.

Standard Ratings and Wetted Materials

(See page 4)

Dimensions

(See page 5)



How to Select and Order

ASCO H-Series Suffix S switches are a single switch and transducer assembly.

How to Select

1. Select type of switch enclosure (open frame, general purpose or watertight).
2. Select the adjustable operating range based on the desired actuation pressure and desired deadband (reactuation) pressure.
3. Select desired process connection.

How to Order

Simply order the selected H-Series Suffix S pressure switch by catalog number, e.g., HB46A218S describes an open frame H-Series Suffix S pressure switch with adjustable operating range of 4 to 12 psig and adjustable deadband at mid-range of 1.5 to 3.5 psig, 1/8" NPT external brass process connection and Buna "N" diaphragm.

Options (See page 4)

Change appropriate digit in catalog number for desired option, e.g., HB46A228S describes an open frame pressure switch with adjustable operating range and deadband with optional FKM diaphragm (seventh digit "2").

Select H-Series Suffix S switch below

Adjustable Operating Range (psig)	Adjustable Deadband At Mid-Range (psig) ① From/To	SPDT (Form “C” Contact), Brass and Buna “N”		
		1/8” NPT External Process Connection	1/4” NPT External Process Connection	1/8” NPT Internal Process Connection ②
		Catalog No.	Catalog No.	Catalog No.
Open frame construction				
4 - 12	1.5 - 3.5	HB46A218S	HB46A214S	HB46A215S
8 - 25	2 - 4	HB36A218S	HB36A214S	HB36A215S
20 - 50	3 - 5	HB26A218S	HB26A214S	HB26A215S
35 - 80	6 - 8	HB16A218S	HB16A214S	HB16A215S
40 - 120	8 - 13	HC26A218S	HC26A214S	HC26A215S
80 - 200	15 - 20	HC16A218S	HC16A214S	HC16A215S
Type 1 - General purpose enclosure				
4 - 12	1.5 - 3.5	HB40A218S	HB40A214S	HB40A215S
8 - 25	2 - 4	HB30A218S	HB30A214S	HB30A215S
20 - 50	3 - 5	HB20A218S	HB20A214S	HB20A215S
35 - 80	6 - 8	HB10A218S	HB10A214S	HB10A215S
40 - 120	8 - 13	HC20A218S	HC20A214S	HC20A215S
80 - 200	15 - 20	HC10A218S	HC10A214S	HC10A215S
Type 4 - Watertight enclosure				
4 - 12	1.5 - 3.5	HB41A218S	HB41A214S	HB41A215S
8 - 25	2 - 4	HB31A218S	HB31A214S	HB31A215S
20 - 50	3 - 5	HB21A218S	HB21A214S	HB21A215S
35 - 80	6 - 8	HB11A218S	HB11A214S	HB11A215S
40 - 120	8 - 13	HC21A218S	HC21A214S	HC21A215S
80 - 200	15 - 20	HC11A218S	HC11A214S	HC11A215S

① Values shown are nominal. ② May be used for panel or bracket mounting.

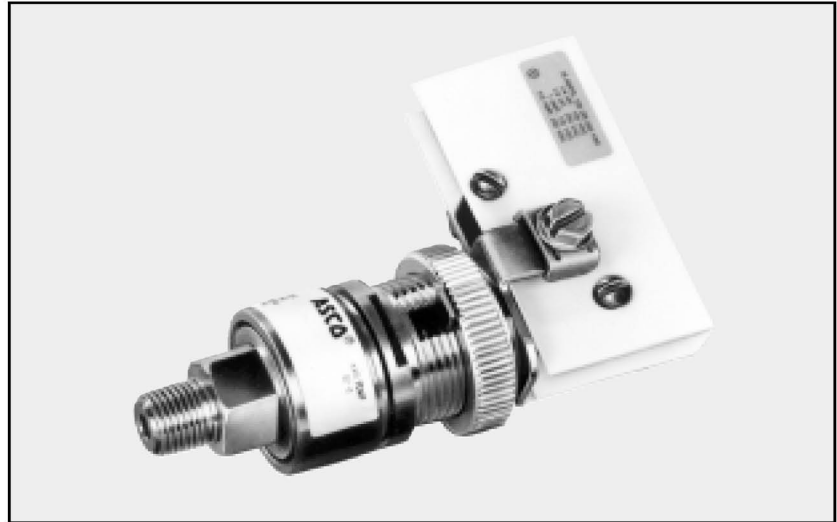
Suffix L: Lowest-Cost Switches with Adjustable Set Points (Open Frame Construction)

Features:

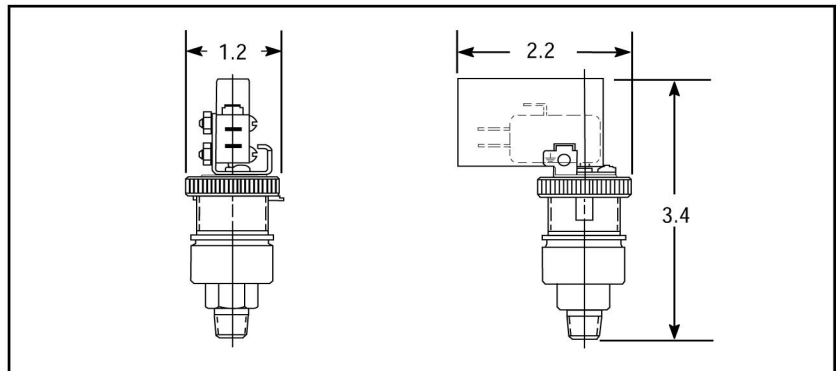
- Low cost for OEM applications.
- Miniature size.
- Wide selection of adjustable ranges.
- Fixed deadband.
- Resilient diaphragm/piston sensor for long life.
- Precision single-pole, double-throw snap switch with quick-connect 1/4" spade terminals.

Standard Ratings and Wetted Materials

(See page 4)



Dimensions (inches)



How to Select and Order

ASCO H-Series Suffix L switches are a single switch and transducer assembly.

How to Select

1. Select the adjustable operating range based on the desired actuation pressure.
2. Select desired process connection.

How to Order

Simply order the selected H-Series Suffix L pressure switch by catalog number, e.g., HB46A218L describes an open frame pressure switch with adjustable operating range of 4 to 12 psig, 1/8" NPT external brass process connection and Buna "N" diaphragm.

Options (See page 4)

Change appropriate digit in catalog number for desired option, e.g., HB46A2[2]8L describes an open frame pressure switch with adjustable operating range and optional FKM diaphragm (seventh digit "2").

Note: Optional snap switches not available on suffix "L" units.

Select H-Series Suffix L switch below

Adjustable Operating Range (psig)	Fixed Deadband At Mid-Range (psig) ①	SPDT (Form "C" Contact), Brass and Buna "N"		
		1/8" NPT External Process Connection	1/4" NPT External Process Connection	1/8" NPT Internal Process Connection ②
		Catalog No.	Catalog No.	Catalog No.
4 - 12	3.0	HB46A218L	HB46A214L	HB46A215L
8 - 25	3.6	HB36A218L	HB36A214L	HB36A215L
20 - 50	5.5	HB26A218L	HB26A214L	HB26A215L
35 - 80	7.0	HB16A218L	HB16A214L	HB16A215L
40 - 120	14.0	HC26A218L	HC26A214L	HC26A215L
80 - 200	21.0	HC16A218L	HC16A214L	HC16A215L

① Values shown are nominal. ② May be used for panel or bracket mounting.