



**DESCRIPTION**

A compact vacuum switch utilizing a high quality snap action micro switch for applications in which price and size are of concern. It is used for pneumatic, water and low pressure applications. Its modular design allows for a variety of electrical and mechanical terminations.

**FEATURES**

- Snap action micro switch
- Factory set or field adjustable
- Diaphragm design
- WRAS approved EPDM diaphragms available

**APPLICATIONS**

- Vacuum generators
- Industrial automation
- Pick and place units
- Engine load monitoring



\* UL available for certain models

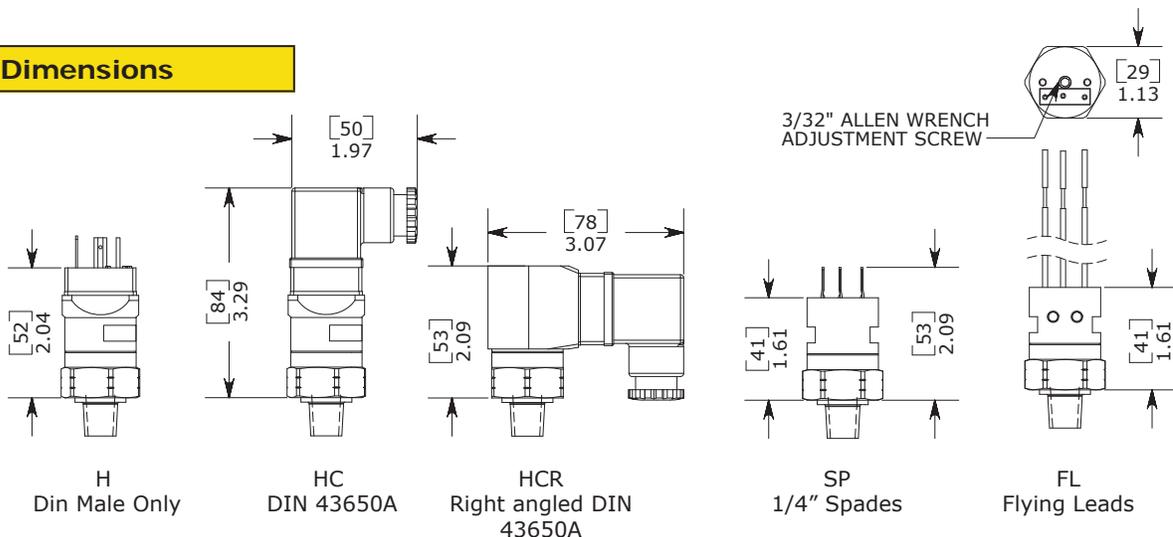
**Specifications**

Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC]
Switch Type	Snap Action
Protection	DIN 43650A - IP65, Terminals - IP00
Temperature Range	-20°F to 180°F (-29°C to 82°C) Nitrile
Mechanical Range	1,000,000 Cycles @ 75 PSI (5.2 BAR)
Diaphragm Material	Standard: Nitrile Optional: Viton, EPDM
Housing Material	Brass (Optional Stainless Steel)
Maximum Overpressure	350 PSI (25 BAR)
Repeatability	+/- 2% of full set point range
Differential	10 - 40% of setting
Weight	0.26 lbs (0.12 kg)

**Pressure Range**

MODEL	Adjustment Range	
	inHg	MiliBar
1	5-30"	170 - 1020

**Dimensions**



**Wiring Code**

CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM WEATHERPACK	FLDR / FLDP DEUTSCH RECEPTACLE / PLUG
COMMON	BLACK	PIN 1	PIN A	PIN A / PIN 1
NORMALLY CLOSED	BLUE	PIN 2	PIN C	PIN C / PIN 2
NORMALLY OPEN	RED	PIN 3	PIN B	PIN B / PIN 2

**Ordering Information**

Field Adjustable

SVA - <sup>1</sup>1 - <sup>2</sup>2M - <sup>3</sup>C - <sup>4</sup>HC - <sup>5</sup>1

**1 - Pressure Selection:**

Field Adjustable - Select Model Code

Insert set point value XXX followed by: R, F, MR, or MF

Model	Adjustment Range	
	inHg	MilliBar
1	5 - 30"	170 - 1020

OR

Set point	Direction	Description
XXXX	<b>R</b>	inHg Rising Pressure
	<b>F</b>	inHg Falling Pressure
	<b>MR</b>	Millibar Rising Pressure
	<b>MF</b>	Millibar Falling Pressure

**2 - Thread Options:**

- 2M - 1/8 NPT male
- 4M - 1/4 NPT male
- 2G - 1/8 BSPP male, G1/8
- 4G - 1/4 BSPP male, G1/4
- 4S - 7/16-20 SAE male, with O-ring seal
- 6S - 9/16-20 SAE male, with O-ring seal
- M10 - M10 X 1.0 male
- M12 - M12 X 1.5 male

**3 - Circuit:**

- A - SPST (Normally Open)
- B - SPST (Normally Closed)
- C - SPDT (Single Pole Double Throw)

**4 - Electrical Termination:**

- H - DIN 43650A - connector type - male half only (only available in SPDT option)
- HC - DIN 43650A - connector type (only available in SPDT option)
- HR - 90 Degree DIN 43650A - connector type - male half only (only available in SPDT option)
- HCR - 90 Degree DIN 43650A - connector type (only available in SPDT option)
- HN - DIN 43650A 1/2" NPT Conduit (only available in SPDT option)
- HNR - 90 Degree DIN 43650A 1/2" Female Conduit (only available in SPDT option)
- FL - Flying Lead 18" long, 18 AWG
- FLWF - Flying Lead Weatherpack connector, female, 10" long leads
- FLWM - Flying Lead Weatherpack connector, male, 10" long leads
- FLDP - Flying Lead Deutsch connector, plug, 10" long leads
- FLDR - Flying Lead Deutsch connector, receptacle, 10" long leads
- SP - 1/4" Spade

**5 - Options:**

- 1 - Viton® Diaphragm
- 2 - EPDM Diaphragm
- 3 - 316 Stainless Steel Housing
- 4 - HNBR Diaphragm
- 7 - Gold Contact, Snap Action Microswitch @ 20 mA / 12 VDC
- 8 - 10 amp, Snap Action Microswitch @ 10(2) 125 VAC (inductive)
- 20 - Seal adjustment Screw
- OC - Oxygen Cleaned Switches
- SR - Snubber



Note: Please see page 42 for other available options