

SMA / SMF



* UL available for certain models

DESCRIPTION

The SMA pressure switch is ideal for many hydraulic and pneumatic applications. It utilizes a proven piston/diaphragm design to provide excellent accuracy and high proof pressures with zero leakage. Any flying leads are available with IP67 rating "CA" & "CS" option, making it an exceptional product for outdoor environments.

FEATURES

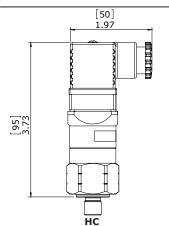
- Snap action micro switch
- Factory set or field adjustable
- Diaphragm/piston design for longevity
- Wide adjustment range
- High proof pressures

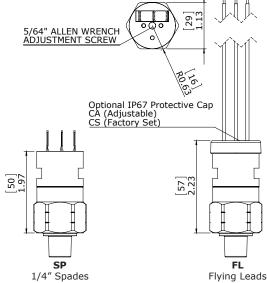
APPLICATIONS

- Hydraulic system control
- Material handling equipment
- Lubrication systems
- Garbage compactors

Specifications			
Electrical	5A [12/24 VDC, 125 VAC] or 3A [250 VAC] Optional: 10A or Gold Contact		
Switch Type	Snap Action		
Protection	DIN 43650A (18 mm): IP65 Spades: IP00 Flying Lead: IP64 Flying Lead with CA/CS: IP67		
Media Temperature Range	Nitrile: -20°F to 180°F (-29°C to 82°C) Viton: 23°F to 248°F (-5°C to 120°C) HNBR: -20°F to 248°F (-29°C to 120°C) EPDM:-20°F to 248°F (-29°C to 120°C)		
Ambient Temperature Range	-40°F to 180°F (-40°C to 82°C)		
Mechanical Life Expectancy	1,000,000 Cycles @ 1000 PSI (69 BAR)		
Diaphragm Material	Standard: Ni	Nitrile Optional: Viton, EPDM, HNBR	
Housing Material	Zinc Plated S	Steel (Optional Stainless Steel)	
Maximum Overpressure	9000 PSI (620 BAR) 4700 PSI (324 BAR) for SMA-3 model		
Repeatability	+/- 2% of full set point range at 20°C (68°F)		
Differential	7 - 30% of setting		
Weight	0.37 lbs (0.17 kg)		

Pressure Range				
Model	Adjustment Range			
Model	PSI	BAR		
3	10 - 35	0.7 - 2.4		
4	30 - 120	2.0 - 8.0		
5	75 - 300	5.2 - 21		
6	300 - 1200	21 - 83		
7	1000 - 3000	69 - 207		
8	2000 - 5000	138 - 345		





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Dimensions

				27 · Opades			
CONTACT	FLYING LEADS	DIN 43650 TYPE	FLWF / FLWM FLCM / FLCF / FLPM / FLPF		FLDR / FLDP		
	LLADS		SPDT MODEL	SPST MODEL	SPDT MODEL	SPST MODEL	
COMMON	BLACK	PIN 1	PIN A	PIN A	PIN A	PIN 1	
NORMALLY CLOSED	BLUE	PIN 2	PIN C	PIN B	PIN C	PIN 2	
NORMALLY OPEN	RED	PIN 3	PIN B	PIN B	PIN B	PIN 2	

DIN 43650A

SMA / SMF



Ordering Information

Field Adjustable

Factory Preset

1 - Pressure Selection:

Field Adjustable - Select Model Code

Model	Adjustment Range			Set Point	Dir
Model	PSI	BAR			
3	10 - 35	0.7 - 2.4		XXXX	
4	30 - 120	2.0 - 8.0	OR	^^^^	
5	75 - 300	5.2 - 21			
6	300 - 1200	21 - 83			
7	1000 - 3000	69 - 207			

Insert set point value XXX followed by: R, F, BR, or BF

Set Point	Direction	Description	
xxxx	R	PSI Rising Pressure	
	F	PSI Falling Pressure	
	BR	BAR Rising Pressure	
	BF	BAR 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

4SLN - 7/16-20 SAE male, with O-ring seal, adjustable

2000 - 5000 | 138 - 345

6S - 9/16-18 SAE male, with O-ring seal

M10 - M10 X 1.0 male, with O-ring seal (ISO 6149-2)

M12 - M12 X 1.5 male, with O-ring seal (ISO 6149-2)

3 - Circuit:

A - SPST (Normally Open)

B - SPST (Normally Closed)

C - SPDT (Single Pole Double Throw : Normally Open and Normally Closed)

4 - Electrical Termination:

HC - DIN 43650A - connector type (only available in SPDT option)

HN - DIN 43650A 1/2" NPT Conduit (only available in SPDT option)

FL - Flying Lead 18" long, 18 AWG

FLWF - Flying Lead Weatherpack connector, female, Tower, 10" long leads

FLWM - Flying Lead Weatherpack connector, male, Shroud, 10" long leads

FLDP - Flying Lead Deutsch connector, plug, 10" long leads

FLDR - Flying Lead Deutsch connector, receptacle, 10" long leads

FLCM - Flying Lead Metripack, male, 150 series, 10" long leads

FLCF - Flying Lead Metripack, female, 150 series, 10" long leads

FLPM - Flying Lead Metripack, male, 280 series, 10" long leads

FLPF - Flying Lead Metripack, female, 280 series, 10" long leads

SP - 1/4" Spade

5 - Options (Omit if not required):

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), 6(2) 250 VAC (inductive)

20 - Seal Adjustment Screw

oc - Oxygen Cleaned

SR - Snubber

CA - IP67 rated protective cover with a removable plug (For adjustable switches SMA flying lead model)

CS - IP67 rated protective cover (For factory set switches, SMF flying lead model)

Note: Please see page 62 for other available options