



DESCRIPTION

A miniature pressure switch with high proof pressures ideal for mobile and other harsh applications. It is a well sealed design that offers ingress protection to IP68 when paired with the flying lead option. It is offered with a variety of mechanical and electrical terminations for easy integration.

FEATURES

- Silver nickel alloy contacts
- Diaphragm/piston combination
- High ingress protection
- Compact body
- Gold contact available

APPLICATIONS

- Industrial tools
- Garbage trucks
- Brake pressure switch

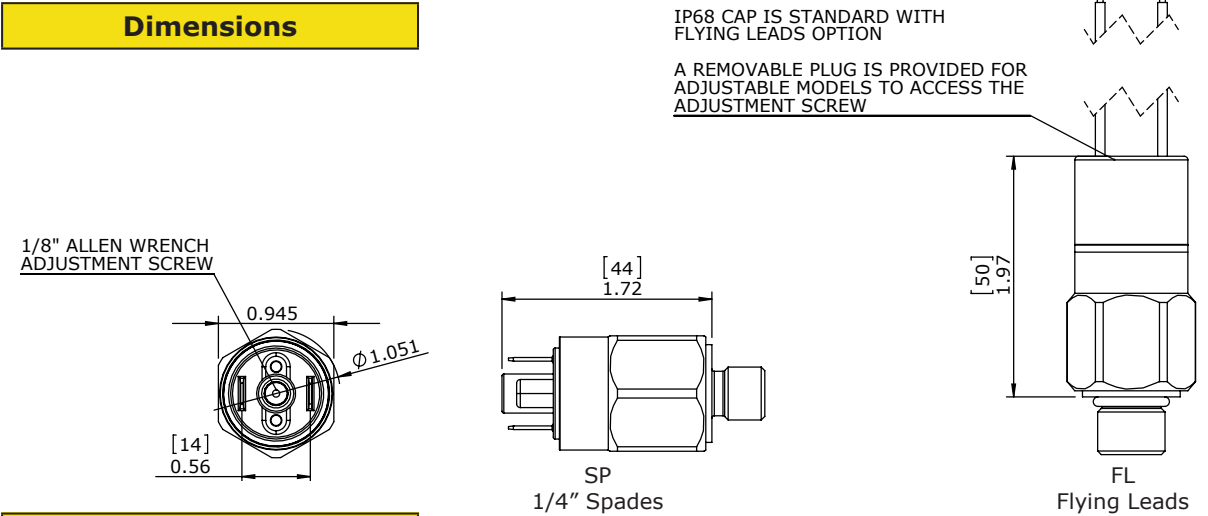
Specifications

| | |
|----------------------|--|
| Electrical | 100 VA, 42 VDC Optional: Gold Contact |
| Switch Type | Blade Contact |
| Protection | Exposed Terminals - IP00 (IP68 Available) |
| Temperature Range | -20°F to 180°F (-29°C to 82°C) Nitrile |
| Mechanical Range | 1,000,000 Cycles @ 1000 PSI (69 BAR) |
| Diaphragm Material | Standard: Nitrile Optional: Viton, EPDM, HNBR |
| Housing Material | Zinc Plated Steel |
| Maximum Overpressure | 9000 PSI (600 BAR) |
| Repeatability | +/- 3% of full set point range at 20°C (68°F) SKBA-1 model, +/- 1.5 psi |
| Weight | 0.16 lbs (0.07 kg) |

Pressure Range

| Model | Adjustment Range | |
|-------|------------------|-----------|
| | PSI | BAR |
| 1 | 5 - 20 | 0.3 - 1.4 |
| 2 | 20 - 120 | 1.4 - 8.2 |
| 3 | 90 - 250 | 6.2 - 17 |
| 4 | 250 - 950 | 17 - 65 |
| 5 | 700 - 1900 | 48 - 131 |
| 6 | 1000 - 3000 | 69 - 206 |

Dimensions



Wiring Code

| CONTACT | FLYING LEADS | FLWF / FLWM WEATHERPACK | FLDR / FLDP DEUTSCH RECEPTACLE / PLUG |
|-----------------|--------------|-------------------------|---------------------------------------|
| COMMON | BLACK | PIN A | PIN 1 |
| NORMALLY CLOSED | BLACK | PIN B | PIN 2 |
| NORMALLY OPEN | BLACK | PIN B | PIN 2 |

Ordering Information

Field Adjustable

SKBA - ¹2 - ²2M - ³B - ⁴SP - ^{5 (Optional)}1

Factory Preset

SKBF - ¹30F - ²2M - ³B - ⁴SP - ^{5 (Optional)}1

1 - Pressure Selection:

Field Adjustable - Select Model Code

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

| Model | Adjustment Range | |
|-------|------------------|-----------|
| | PSI | BAR |
| 1 | 5 - 20 | 0.1 - 1.4 |
| 2 | 20 - 120 | 1.4 - 8.2 |
| 3 | 90 - 250 | 6.2 - 17 |
| 4 | 250 - 950 | 17 - 65 |
| 5 | 700 - 1900 | 48 - 131 |
| 6 | 1000 - 3000 | 69 - 206 |

OR

| 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
- 6S** - 9/16-18 SAE male, with O-ring seal
- M10** - M10 X 1.0 male (ISO 9974)
- M12** - M12 X 1.5 male (ISO 9974)

Sold in North America by:
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3 - Circuit:

- A** - SPST (Normally Open)
- B** - SPST (Normally Closed)

4 - Electrical Termination:

- FL** - Flying Lead 18" long, 18 AWG, IP68 cap is standard with this option
- 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
- SP** - 1/4" Spade

5 - Options (Omit if not required):

- 1** - Viton® Diaphragm
- 2** - EPDM Diaphragm
- 4** - HNBR Diaphragm
- 7** - Gold Contact, 0.4 VA, 30 VDC
- 20** - Seal Adjustment Screw
- 30** - Rubber Boot - Removable (Excludes IP68 Cap if selected)
- OC** - Oxygen Cleaned Switches
- SR** - Snubber



Note: Please see page 52 for other available options