

# Flow Switch - FS5900 Series

## Adjustable Gas Series for High Flow & Very Low Differential Pressure

The FS5900 Series Flow Switch uses a special priority channel to virtually eliminate differential pressure under high flow conditions while providing the most reliable flow fault monitor at low flow rate set points. In a typical application example, it would be possible to set the low flow alarm set point at 1 slpm, with a purge flow rate of 100 slpm or higher. Made in the USA.

### Features:

- Fully Field Adjustable
- Operates In Any Orientation
- 316 Stainless Steel Construction
- Shock and Vibration Resistant
- 1/4 NPT Connections

### Applications:

- Flow fault monitor for vacuum pump Nitrogen purge systems and other high flow processes



### Specifications:

- |  |  |
|--|--|
| • Switch Assembly                        | SPDT UL 61760                                  |
| • Voltage                                | 100 VDC, 120 VAC max                           |
| • Contact Rating                         | 3 Watts resistive max continuous               |
| • Current Switching                      | 0.25 Amp max continuous                        |
| • Power                                  | 3.30 VA max - 100 VDC<br>2.46 VA max - 120 VAC |
| • Contact Resistance                     | 0.20 Ohm max                                   |
| • Adjustment Flow Rate Setpoint          | 0-100 slpm at 20 psig                          |
| • Fluid Media                            | Gases (including Corrosives)                   |
| • Pressure                               | 1000 psig max (69 bar)                         |
| • Differential Pressure at Set Point     | 1.0 psi max                                    |
| • Differential Pressure at any flow rate | 4.0 psi max                                    |
| • Max Ambient Temperature                | +220°F (+104°C)                                |
| • Internal Filter                        | 40 micron                                      |

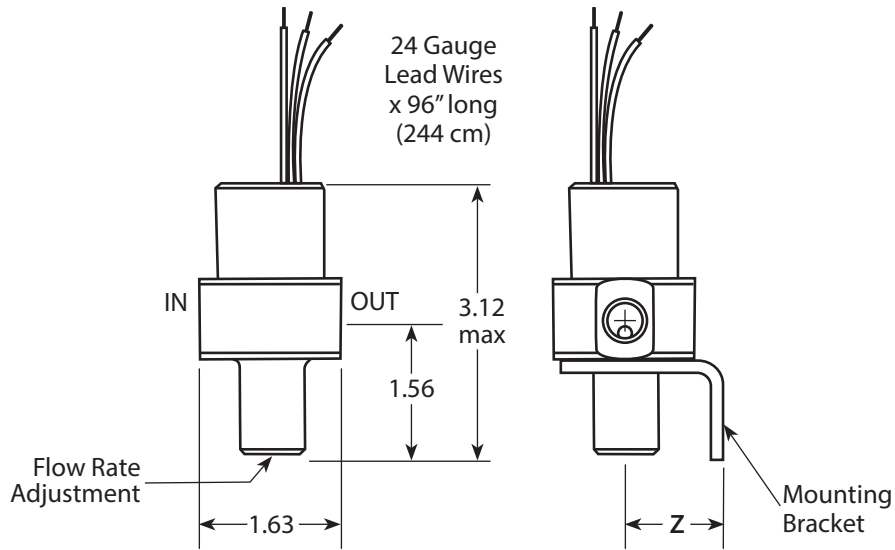
### Materials:

- |                       |   |
|-----------------------|---|
| • Body & Wetted Parts | 316 Stainless Steel, Hastelloy, Monel or Titanium |
| • Spring              | Inconel X750                                      |
| • Seals               | See <b>Ordering Information</b>                   |

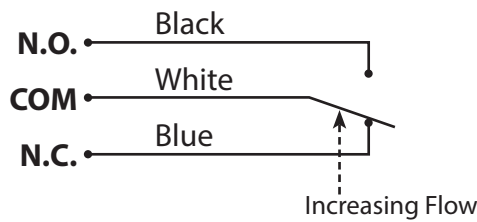
**FS5900 Series**

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## Dimensions:



## Electrical Schematic:



## Ordering Information:

**FS5904 C V - M**

### Basic Series

FS5904 1/4 NPT

### Material

- C 316 Stainless Steel
- H Hastelloy
- M Monel
- T Titanium

### Seal Material

- V Viton® -20°F (-29°C) to +220°F (+104°C)
- B Buna-N -40°F (-40°C) to +220°F (+104°C)
- E Ethylene Propylene (EPR) -40°F (-40°C) to +220°F (+104°C)
- K Kalrez® +30°F (-1°C) to +220°F (+104°C)

Optional Mounting Bracket

**FS5900 Series**

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