

Flow Switch - FS5100 Series

Adjustable Gas Series for High Flow

The FS5100 Series flow switch is designed to precisely detect increasing or decreasing flow rates of gases for critical process. The electrical switch is triggered by a Neodymium magnet, the strongest available magnet alloy. This permanent magnet is encapsulated in a 316 stainless steel enclosure which is chemically resistant to most substances. The switch is field adjustable and the compact construction is ideal for high density system packaging.
Made in the USA.

Features:

- Fully Field Adjustable
- Operates In Any Orientation
- 316 Stainless Steel Construction
- Shock and Vibration Resistant
- 1/4 and 1/2 NPT Connections
- Optional Explosion Proof Cap

Applications:

- Monitoring
- Purge flow fault
 - Toxic or hazardous gases
 - Flammable or pyrophoric gases
 - Chemical analyzers
 - Oxygen systems



Model FS5108

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
2.46 VA max - 120 VAC |
| • Contact Resistance | 0.20 Ohm max |
| • Fluid Media | Gases (including Corrosives) |
| • Pressure | 1000 psig max (69 bar) |
| • Max Ambient Temperature* | +220°F (+104°C) |
| • Internal Filter | 40 micron |

*Operating temperature ranges depend on Seal Material.
See **Ordering Information**

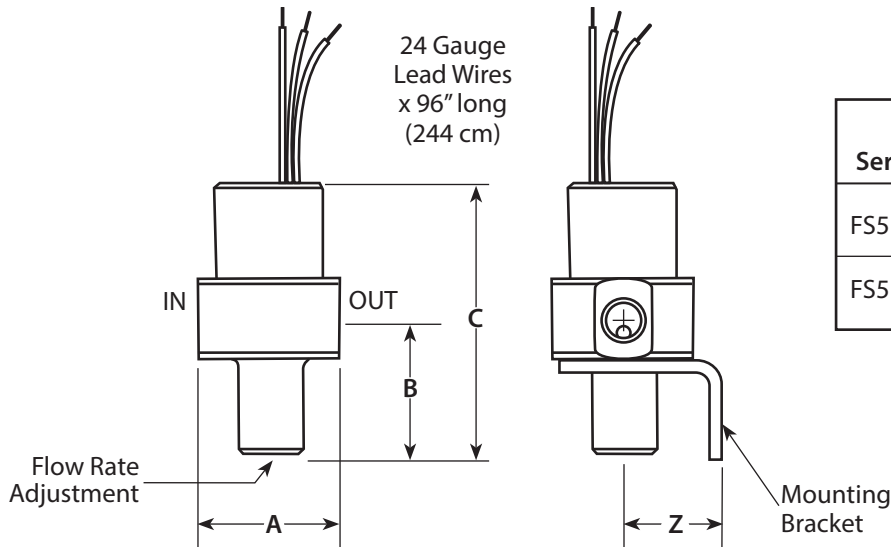
Materials:

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

FS5100 Series

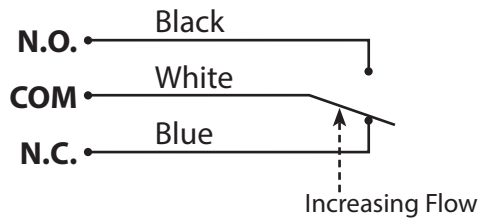
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Dimensions:



Series	Pressure Ports	Dimensions			
		A	B	C	Z
FS5104	1/4 NPT	1.63	1.56	3.12	1.13
FS5108	1/2 NPT	2.25	2.24	3.89	1.63

Electrical Schematic:



Ordering Information:

FS5104 C V - 5 M X

Basic Series

FS5104 1/4 NPT
FS5108 1/2 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 Explosion Proof Cap

Optional Mounting Bracket

Adjustable Flow Rate*

-5 1 slpm to 65 slpm } FS5104
-6 1 slpm to 120 slpm }
-8 1 slpm to 325 slpm } FS5108
-9 1 slpm to 700 slpm }

*Adjustable Flow Rate Set Point - Nitrogen @ 5 psig (0.34 bar)

FS5100 Series

rev 041316