# CF12 Flow Switch for Low Flow

## Characteristics

- **Ideal for various industrial environments applications.**

- **Robust with no moving parts and easy maintenance.**
  Corrosion resistant 316 Stainless Steel Body

- **Class Protection IP65 to IP67**
  **(IEC 60529).**

- **Fast response time for flow**

- **Set-Point Range.**
  - 3ml/m to 300ml/m (Liquids)

- **Relay SPDT Output.**

- **Protection:**
  - Reverse polarity
  - Voltage surges
  - Electromagnetic interference

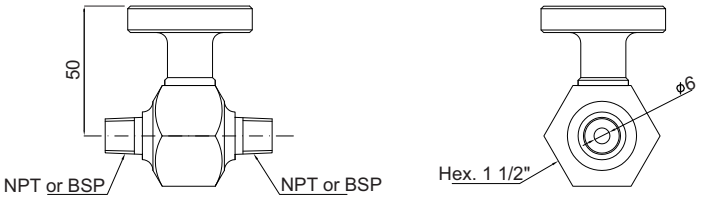
## Description

The CF12 series of thermal flow switches is designed to monitor flow status of liquids and gases and can also be used to detect level. A chain of 8 LED's gives the user a visual indication of the flow status of the switch. There are two red LEDs that indicate whether or not the unit has detected flow, a yellow LED to indicate the set point (for increasing or decreasing flows) and 5 green LEDs that indicate the amount of flow beyond the set point of the unit. The CF12 also includes a di-chromatic (red/green) LED which shows the switch point status of the unit.

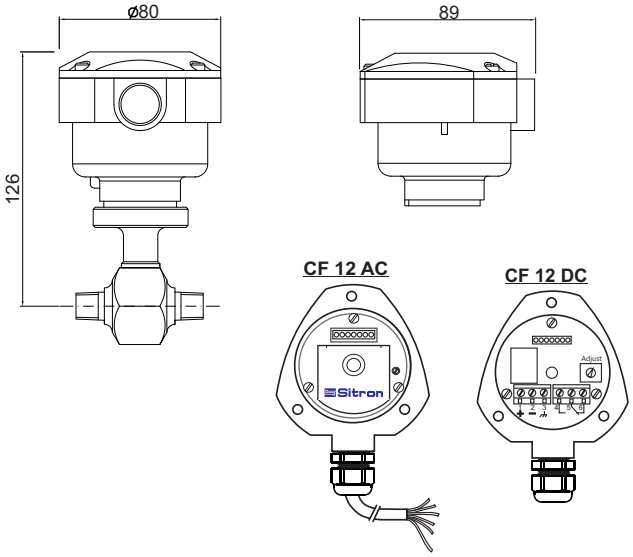
The sensing element and connection of the CF12 are made with 316L S.S. and can be coated when necessary . The enclosure is offered in either glass filled nylon or aluminum. All models can be ordered with a great variety of threaded, flange, or sanitary process connections. With the addition of a built in “T-Reducer” connection, the CF12 is now able to detect flow rates between 3ml and 300ml per minute.

## Dimensions (mm)

Body Dimensions



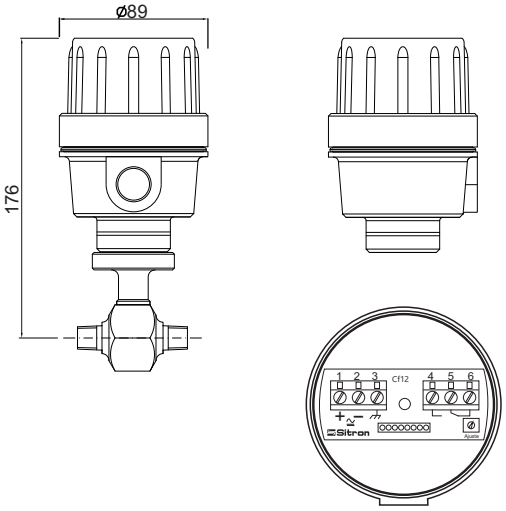

## Dimensions (mm)




## Technnical Specfications

**CF12AC/DC-X-X-X-X-N1** (1 SPDT)

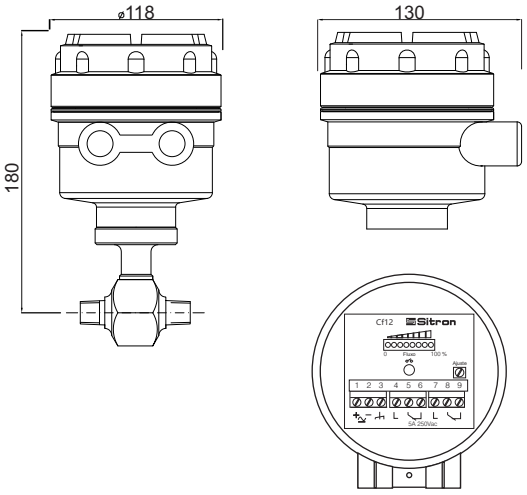
**Application:** Low Flow Detection
**Power Supply: DC:** 24Vcc (± 10%)
**AC:** 85...240 (50/60Hz) and 125Vcc
**Consumption:** 80mA
**Output:** Relay (1 SPDT) 5A - 250Vac (With 6 way PVC cable for AC model)
**Set Point:** Líquids: 3 ml/m to 300 ml/m
**Accuracy:** ± 10%
**Response Time:** 1 to 10s
**Gradient Temperature:** 15°C/min
**Indication:** Bargraph 8 led´s
**Flow Rate Indication:** Red Led = flow is below set-point
Yellow = flow is at set-point
Green Led = flow is above set-point
**Housing :** Nylon Fiberglass N1
**Electrical Connection:** Cable Gland ½" NPT or M12 connector
**Process Connection:** 1/4" to 1/2" BSP or NPT,
**Body Material:** Stainless Steel 316L
**Operating Temperature:** -10 to + 80°C (120°C upon request)
**Max. Pressure:** 100 Bar (others pressures upon request)
**Class Protection:** IP65




**CF12AC/DC-X-X-X-X-G1** (1 SPDT)

**Application:** Low Flow Detection
**Power Supply: DC:** 24Vcc (± 10%)
**AC:** 85...240 (50/60Hz) and 125Vcc
**Consumption:** 80mA
**Output:** Relay (1 SPDT) 5A - 250Vac
**Set Point:** Líquids: 3 ml/m to 300 ml/m
**Accuracy:** ± 10%
**Response Time:** 1 to 10s
**Gradient Temperature:** 15°C/min
**Indication:** Bargraph 8 led´s
**Flow Rate Indication:** Red Led = flow is below set-point
Yellow = flow is at set-point
Green Led = flow is above set-point
**Housing :** Aluminum G1
**Electrical Connection:** Cable Gland ½" BSP or NPT , 3/4" BSP or NPT
**Process Connection:** 1/4" to 1/2" BSP or NPT,
**Body Material:** Stainless Steel 316L
**Operating Temperature:** -10 to + 80°C (120°C upon request)
**Max. Pressure:** 100 Bar (others pressures upon request)
**Class Protection:** IP66

## Dimensions (mm)



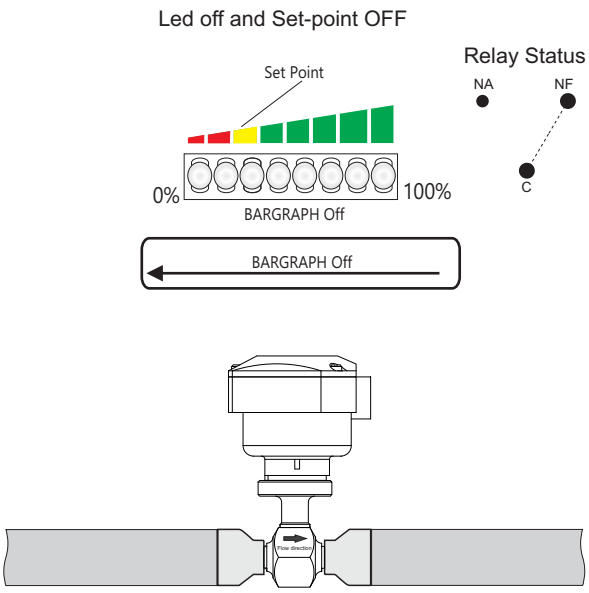

## Technnical Specifications

CF12AC/DC-X-X-X-X-G2 (2 SPDT)

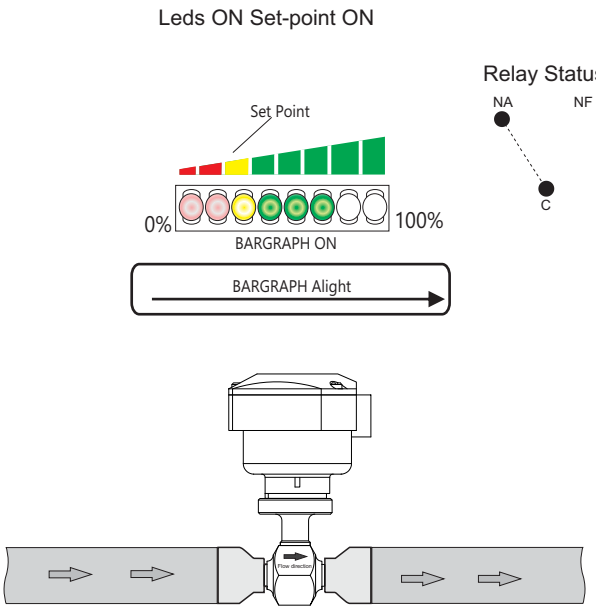
**Application:** Low Flow Detection
**Power Supply: DC:** 24Vcc (± 10%)
**AC:** 85...240 (50/60Hz) and 125Vcc
**Consumption:** 80mA
**Output:** Relay (2 SPDT) 5A - 250Vac
**Set Point:** Líquids: 3 ml/m to 300 ml/m
**Accuracy:** ± 10%
**Response Time:** 1 to 10s
**Gradient Temperature:** 15°C/min
**Indication:** Bargraph 8 led´s
**Flow Rate Indication:** Red Led = flow is below set-point
Yellow = flow is at set-point
Green Led = flow is above set-point
**Housing :** Aluminum G2
**Electrical Connection:** Cable Gland ½" BSP or NPT , 3/4" BSP or NPT
**Process Connection:** 1/4" to 1/2" BSP or NPT,
**Body Material:** Stainless Steel 316L
**Operating Temperature:** -10 to + 80°C (120°C upon request)
**Max. Pressure:** 100 Bar (others pressures upon request)
**Class Protection:** IP66

## Example (Low Flow Detection Status)

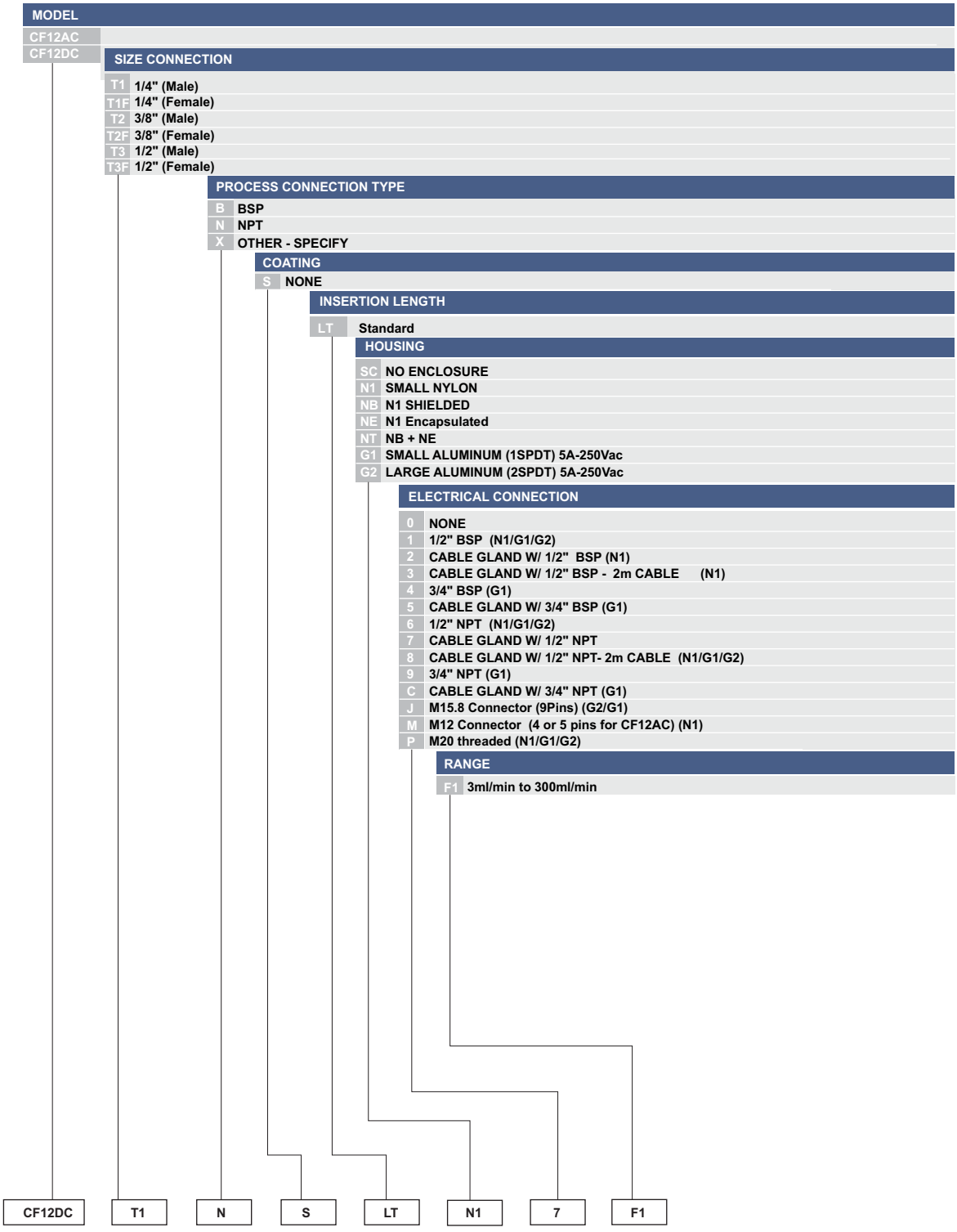
### Full Pipe without Flow




### With FLow



# Order Code

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