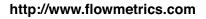
"Where Quality is Measurable"



(818) 407-3420 · (800) 356-6387 Fax (818) 700-1961

SC-FF Series

Features:

- Pulse Scaler with Isolation
- Pulse, Contact Closure or Magnetic Pickup Inputs
- Two Year Warranty
- · Various Mounting Styles
- Output LED Indicator

Description:

The model SC-FF is a signal conditioner which permits the user to condition and scale the input pulses from a pulse producing sensor into a high level output where each pulse represents an engineering unit of measure.

Several pulse input types are supported including magnetic pickup, contact closure, and an isolated pulse input.

The pulse scaling permits a user to apply a scaling multiplier with a value of .0001 to .9999 with additional multipliers of 1, .1, .01, .001 and .0001. Pulse scaling is accomplished by rotary encoded and dip switch selections.

The pulse output is available in isolated, non-isolated and relay versions. User selections include output pulse duration and internal pullup resistors. The user may select his pulse output configuration by means of a dip switch.

The unit is powered to 8 - 35 VDC. Reverse polarity protection is provided. Power and Pulse input/output indicators are provided.

The unit is available in enclosures intended for either DIN rail, NEMA4X or Explosion Proof.

Specifications:

Pulse Input:

Isolated Pulse:

Logic 1 (high): 3 - 30 VDC Logic 0 (low):0-0.4 VDC

Input Frequency Range: 0-10000 Hz

Input Impedance: $3.3 \text{ k} \Omega$ Reverse Polarity Protection Isolation Voltage: 500 V

Contact Closure:

Switch Debounce: 40 CPS maximum count rate

10000 ohm internal pullup to 5 VDC

Magnetic Pickup:

Sensitivity: 30 mV p-p Bandwidth: 0-3500 Hz

Over Voltage Protection to 30 VDC

10 Kohm input resistance

Frequency to Frequency Pulse Isolator and Scaler



Pulse Output:

Pulse Duration: 50 uSec, 500 uSec 50 mSec (Switch selectable)

Open Collector Pulse:

Maximum Voltage: 48 VDC

Maximum Current: 100 mA @ .7V max

Max. Output Speed: 10 kHz Reverse Polarity Protection Overcurrent Protection

Jumper selectable for 5 V and 24 V pulse output

Isolated Pulse:

Maximum Voltage: 30 VDC Maximum Current: 10 mA Max. Output Speed: 1 kHz Isolation Voltage: 500 VDC Reverse Polarity Protected

Output Relay (optional):

Contact Rating: 0.5 amps 240 VAC Output Form: Form A (SPST) Max. Output Speed: 10 Khz

Power Input:

Input Voltage Range: 8.5 to 35 VDC Supply Current: 25 mA (nominal) Reverse Polarity Protection

Transient Protection

Pulse Scaling:

Scaler: 0.0001 to .9999

Multiplier: X1, X0.1, X0.01, X0.001, X0.0001

Mounting Styles

DIN Rail Mount: Plastic enclosure with a snap fastener for

fitting to DIN 46 277 and DIN EN 50 022

assembly rails.

NEMA 4X: 4.92" x 4.92" NEMA 4X Enclosure for wall

mounting.

Explosion Proof: Aluminum enclosure for:

Class I, Division 1, Groups B, C & D Class II, Division I, Groups E, F & G.

Listing: CE Compliant

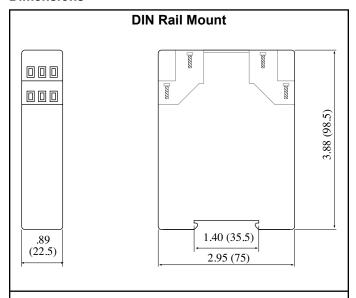
990371 10/28/16

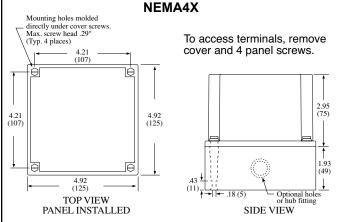
http://www.flowmetrics.com

Bulletin SCFF- 06/16

800-356-6387

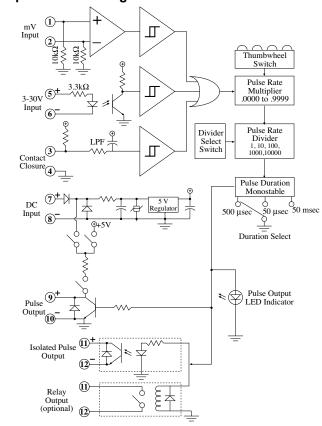
Dimensions





Explosion Proof Enclosure 3/4" NPT (2) HLS. (feed thru hubs) 5.25 4.9 - : 5.9 - 7.7 (150 - 196) 4.75 -5 (121 - 127) Optional 3rd Conduit Entry All Dimension in inches (mm)

Simplified Block Diagram



Wiring:

	Common	5 \	Magnetic pickup Magnetic pickup Contact Closure Input
Option of the solution of the	Common]6 🔲 🤇	(+) DC Power Input DC Power Input Commo

Isolated Pulse Out(-) / Relay Output $\vec{\delta}$ Pulse Output (+)

Typical Annlication: Raw Signal Scaled Pulse Output SC-FF Mag Pickup Input Flowmeter with Magnetic Pickup

Orderina Information SC-FF ET Example Series FF= Frequency to Frequency **Output Type** 1 = Open Collector & Isolated Pulse (STD) 2 = Open Collector & Relay Output Mounting: B= Nema 4X C= Explosion Proof D= DIN Rail Options:

ET= Extended Temp: -4° to 185°F (-20° to 85° C)
T = Third 3/4" conduit entry for Explosion Proof Housing
H2 = 0.875" Hole for NEMA4 mounting style

HF2 = 0.5" Female NPT Hub fitting
H3 = 1.125" Hole for NEMA4 mounting style
HF3 = 0.75" Female NPT Hub fitting
Accessories: (add to end of part number)

DR-4= 4" DIN Rail