-FI Series

Features:

- Magnetic Pickup or Contact Closure Input
- Optically Isolated Input
- 10 kHz Maximum Input Frequency
- Standard, 2-Wire, 4-20 mA Output
- Two Year Warranty
- Loop Powered
- Various Mounting Styles
- LED Indicator

Description:

The SC-FI is a two wire frequency to analog converter that converts a pulse rate input into a 4-20 mA output signal proportional to frequency or rate.

The input pulse rate is amplified and filtered by the input signal conditioning circuitry. Two forms of input signal conditioning are provided, one for magnetic pickups or contact closure inputs and the other is an isolated pulse input (depending on order code).

The amplified frequency signal is then converted to an analog signal using a precision frequency to analog converter.

The output stage derives it's power from the output current loop. The output stage converts the analog input signal into the desired output range. Multi-turn potentiometers provide for the necessary trimming of span and zero.

Specifications:

Operating Temperature

32° F (0°C) to 158°F (70°C)

High Level Pulse Input

Type: Opto-Isolated Input Impedance: 3.3 k Logic 1: 4-30 VDC Logic 0: 0-1 VDC Frequency Range: 0-10 kHz Fault Protection: **Reverse Polarity Protection Over Voltage Protection** Isolation Voltage: 500 V Fast Transient Immunity: 500 V Maximum Rise Time: No Limit Maximum Fall Time: No Limit

Magnetic Pickup Input

Differential Input Input Impedance: 10 k Frequency Response: 0-3500 Hz Trigger Sensitivity: 30 mV p-p Over Voltage Protection: ± 30 VDC

Contact Closure Input

Sensor Compatibility- Requires an isolated, contact closure Maximum Contact Voltage- 5 V Maximum Contact Current- 0.12 mA Nominal Pullup Resistance - 47 Kohm to 5 Vdc Frequency Range - 0-100 Hz



Frequency to Current Conversion

Range Selection: DIP Switch Selectable Available Ranges: Standard

Frequency to Current

Signal Conditioner

	150 4- 20
	150 Hz, 30
	2500 Hz, 5
Factory Default:	1000 Hz

00 Hz. 600 Hz. 1200 Hz. 5000 Hz, 10,000 Hz

Contact Closure Option

30 Hz, 60 Hz, 120 Hz, 240 Hz, 480 Hz, 960 Hz, 1920 Hz 100 Hz

Analog Output

Factory Default:

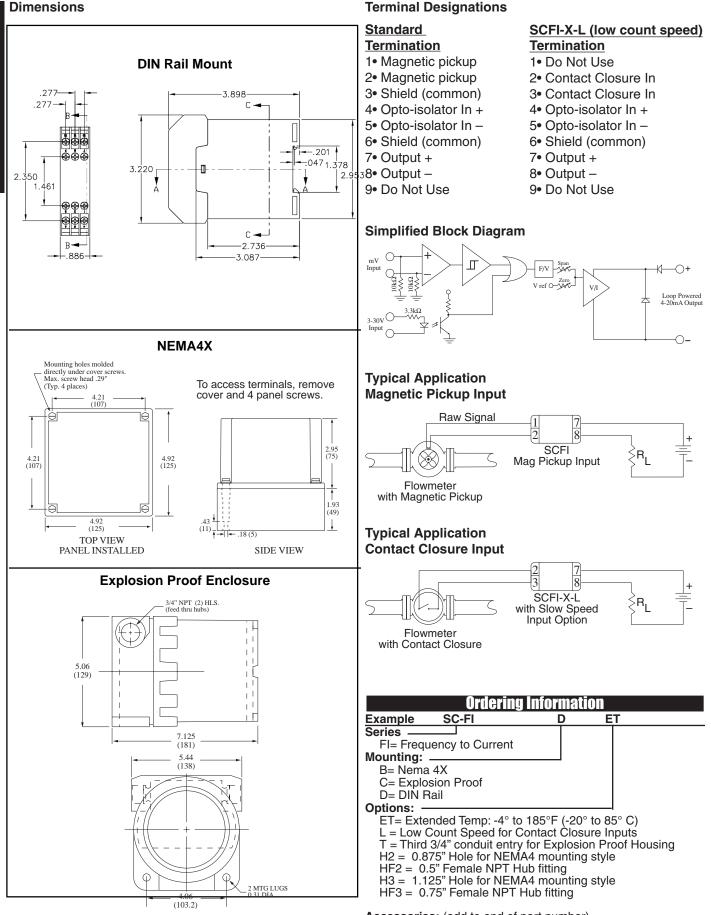
Accuracy: ± 0.1% Span (@ 20° C) Output Type: Two Wire, Loop Powered Range: 4-20 mA Compliance Voltage: 10 to 40 VDC Loop Burden: < 10 VDC Trim Controls: Zero & Span, non-interacting Span (20 mA) Trim Range: 50% to 100% of full scale Linearity: < ±0.1% Span Output Voltage Effect: < ± 0.002% Span/Volt Temperature Effect: < 200 PPM/C° **Reverse Polarity Protected** Noise Content: < 0.2% Span Response Time: 0.1 second (1 sec. jumper selectable) Overcurrent Limiting: 35 mA LED illuminates when output loop Output Loop Indicator: is powered by proper polarity and blinks proportionally to the input frequency. 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







Accessories: (add to end of part number) DR-4= 4" DIN Rail

Kep