

DC CURRENT TRANSDUCER

MODEL **CFG-**

DESCRIPTION

The CFG series is a closed-loop fluxgate current transducer designed to accurately measure positive or negative dc currents. The multiple core fluxgate principle is used to detect the strength and polarity of the magnetic flux created by current flowing thru the window. Signal conditioning provides a filtered output proportional to the amplitude of measured current. Multiple DC power supply options offer galvanic isolation.

5 YEAR WARRANTY



SPECIFICATIONS

INPUT

Current Range See Table
 Over-Range with linearity 120% Rated Input
 Over-Range w/o damage ... Continuous 5x Rated
 Surge ... 1s every 10min..100x

DIELECTRIC TEST

Input/Output/Case 2500Vac

INSTRUMENT POWER

See Table

OUTPUT

Scaling See Table
 Loading 5V or 10V Output $\geq 2k\Omega$
 1mA Output 0-10k Ω
 4-20mA, 4/12/20mA Output 0-500 Ω
 Response Time (10% to 90% of input step) $\leq 2ms$

ACCURACY

Effects of setpoint, linearity, offset ... $\pm 1.00\%$ F.S.
 Orientation sensitivity $< \pm 0.6\%$ F.S.
 AC Ripple $< 0.5\%$ F.S.

TEMPERATURE

Operating Range -20°C to 60°C
 Effect $\pm 0.04\%/^{\circ}C$

MODEL NUMBER CFG - **XXX** - **AA** - **BB**

XXX	INPUT RANGE	AA	Output Type	BB	INST. PWR.
005	0- $\pm 0.5A_{dc}$	B	0- $\pm 1mA_{dc}$	05	5Vdc, $\pm 10\%$
010	0- $\pm 1.0A_{dc}$	E	4-20mA _{dc}	12	12Vdc, $\pm 10\%$
015	0- $\pm 1.5A_{dc}$	EM	4/12/20mA _{dc}	24	24Vdc, $\pm 10\%$
020	0- $\pm 2.0A_{dc}$	X5	0- $\pm 5V_{dc}$		
025	0- $\pm 2.5A_{dc}$	D	0- $\pm 10V_{dc}$		
030	0- $\pm 3.0A_{dc}$				
040	0- $\pm 4.0A_{dc}$				
050	0- $\pm 5.0A_{dc}$				

PHYSICAL

Relative Humidity 0-95%, Non-Condensing
 Weight ≤ 0.50 lbs.
 Cable (Length, Type) 8.5ft, Non-Detachable
 Cable Termination #8 Spade Lug
 Weight ≤ 0.50 lbs.

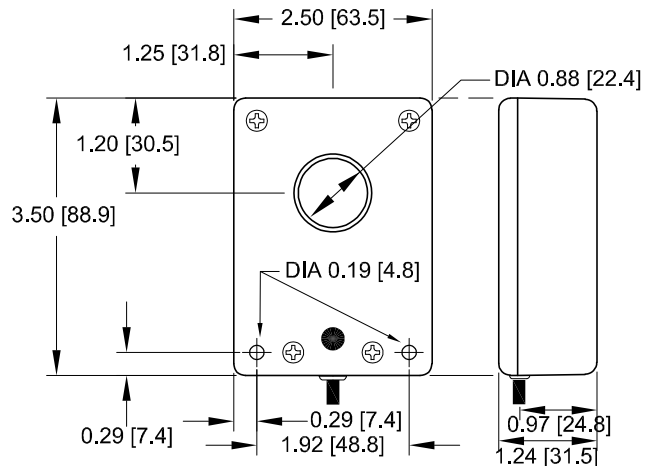
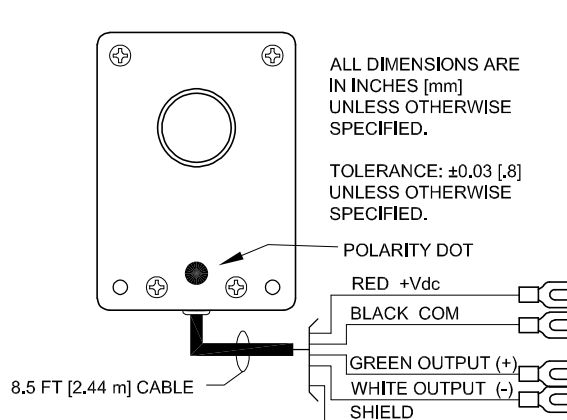
ENCLOSURE

Noryl SE1X, Black

ORDERING INFORMATION

Example: 0-2.5A_{dc} Input
 0-10Vdc Output, 12Vdc Inst. Pwr.
CFG-025-D-12

CONNECTIONS & DIMENSIONS



Dwg# 0902-01102-B Rev--



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