

OSI DC CURRENT SENSOR (GEOMAGNETICALLY INDUCED CURRENTS)

DESCRIPTION GIC-xxxz transducers are able to measure DC currents in the presence of higher levels of AC. This enables accurate measurement of Geomagnetically Induced Currents (GIC) on power grids, and of the DC components potentially present in Photo-Voltaic system and inverters. The device operates over a wide dynamic range and maintains low-level accuracy even after a large over-range. The GIC's inherently low residual effect eliminates the need to degauss in all but extreme circumstances. The split-core enclosure, with captive hardware and outdoor rating, makes installation easy and does not require circuit interruption.



FEATURES

- High resolution (1000:1)
- Input/Output isolation
- Low residual offset
- Low power consumption
- Split-core
- Outdoor installation
- Bidirectional
- Wide temperature range
- Non-contact
- Conduit attachment (Rigid 1/2" NPT)



MODEL SELECTION

MODEL NUMBER

GIC-XXX Z

ORDERING INFORMATION

Example:
600Adc Input 0-±1mAdc Outputs
GIC-601B

XXX	DC Range	Z	Output Type
051	±0-50Adc	B	0-±1mAdc
101	±0-100Adc	D	0-±10Vdc
151	±0-150Adc	X5	0-±5Vdc
201	±0-200Adc	E	4-20mAdc
301	±0-300Adc	EM	4/12/20mAdc
401	±0-400Adc		
501	±0-500Adc		
601	±0-600Adc		
801	±0-800Adc		
102	±0-1000Adc		
122	±0-1200Adc		
152	±0-1500Adc		

SPECIFICATIONS

INPUT
 Current Range See model selection
 Over-range (w/o damage) >8000A
 Bandwidth...(1.5Hz low pass filter on output).... dc to 1.5Hz

DIELECTRIC TEST
 Input window2200Vac
 Inst. Power to output 1kVdc
 Insulation class600Vac

INSTRUMENT POWER
 Standard 24Vdc/ac, ±20%
 Current nominal 80mA
 maximum 100mA
 Optional 12Vdc/ac (50-60Hz) ±20% Add suffix **-12**
 Current nominal 150mA
 maximum 220mA

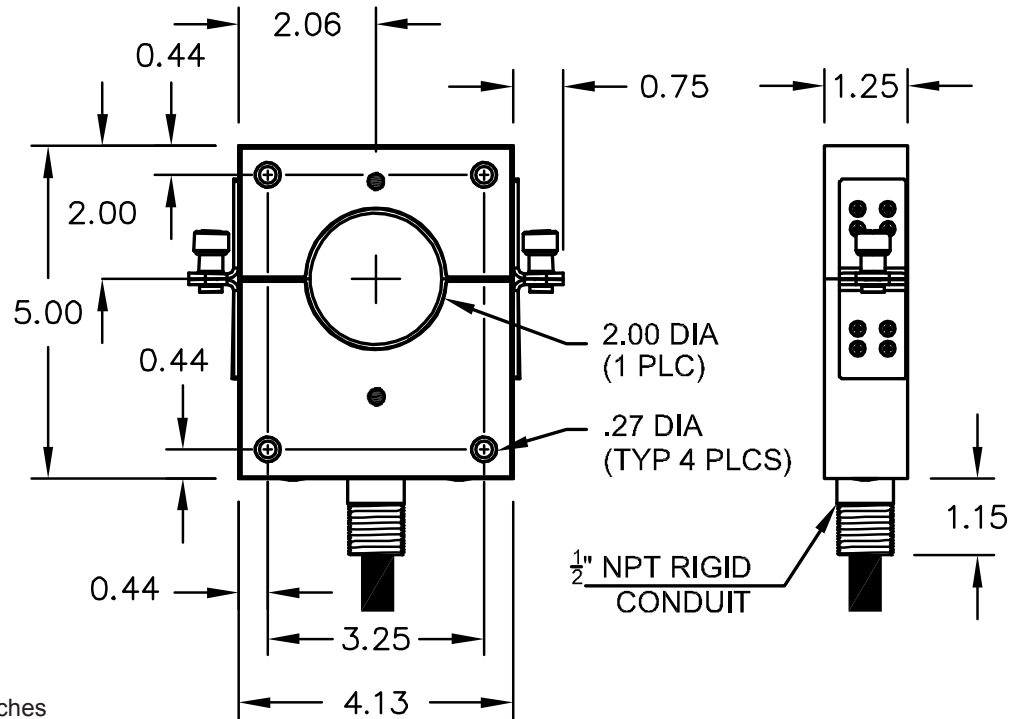
TEMPERATURE
 Operating range -40°C to +85°C
 Temperature effect ±0.025%/°C
 Storage -40°C to +85°C

OUTPUT
 Scaling... Models B, D, X5 0 to ±FS in = 0 to ±FS out
 Model EM -FS/0/+FS in = 4/12/20mA out
 Model E (unidirectional)..... 0-FS in = 4-20mA out
 Loading.. Models E and EM 0-500Ω
 Model B 0-10kΩ
 Models D and X5 ≥2kΩ
 Response time (90%) <350ms (typical)

ACCURACY
 Linearity, offset, setpoint and repeatability ≤0.5% F.S.
 Over-range residual offset..... 0.0007A/A of input current
 (max offset = 350mA)
 Linearity..... ≤0.1%F.S.

PHYSICAL
 Weight 2.0lbs

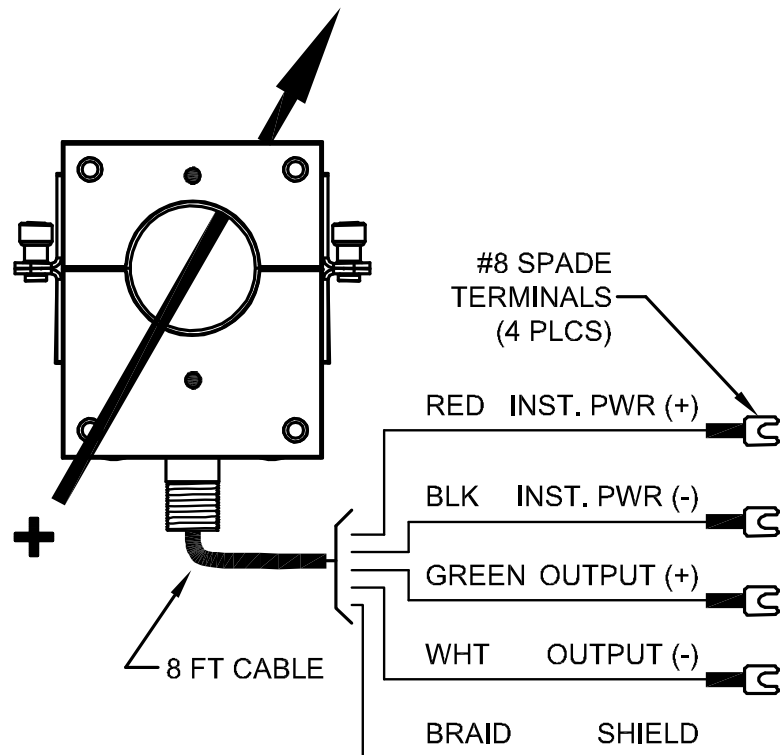
CASE DIMENSIONS



Dimensions are in inches
Tolerance is ±0.03 inches

Dwg# 0902-01051-B Rev-A

CONNECTION DIAGRAM



Dwg# 0902-01051-B Rev-B