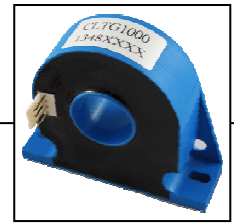




Class Loop Current Sensor



ELECTRICAL DATA/INPUT :

Primary Nominal R.M.S. Current Ir(A)	Primary Current Measuring Range Ip(A) at Vcc=±15V	Part Name Type	Part Number
100/200/300	150/300/500	CLTGXXXX	CT028XXXXXXXX
Vcc	Supply Voltage		±15V ±5%
Ic	Current Consumption		≤30mA +(Ir/2000)A
Iis	R.M.S. Voltage for 6KVAC Isolation test, 50/60Hz,1min		<10mA
Ris	Isolation Resistance at 500 VDC		>500Mohm
CR	Conversion ratio		1:2000

ELECTRICAL DATA/OUTPUT

Iout	Output current , TA=25°C	CLTG1000 CLTG2000 CLTG3000	50mA*Ir 100mA*Ir 150mA*Ir
RL	Load Resistor(±15V , for CLTG1000)		<175ohm
X	Accuracy at Ir , TA=25°C (without offset)		<±0.6%
EL	Linearity from 0 to Ir , TA=25°C		<±0.1%
Ioe	Electrical Offset current , TA=25°C		<±0.2mA
Iom	Magnetic Offset current (Ir→0)		<±0.2mA
Iot	Thermal Drift of Offset current		<±0.65mA/°C
Tr	Response Time to 90% of Ir(f=1KHz)		<1us
FB	Frequency Bandwidth (-3dB)		100KHz

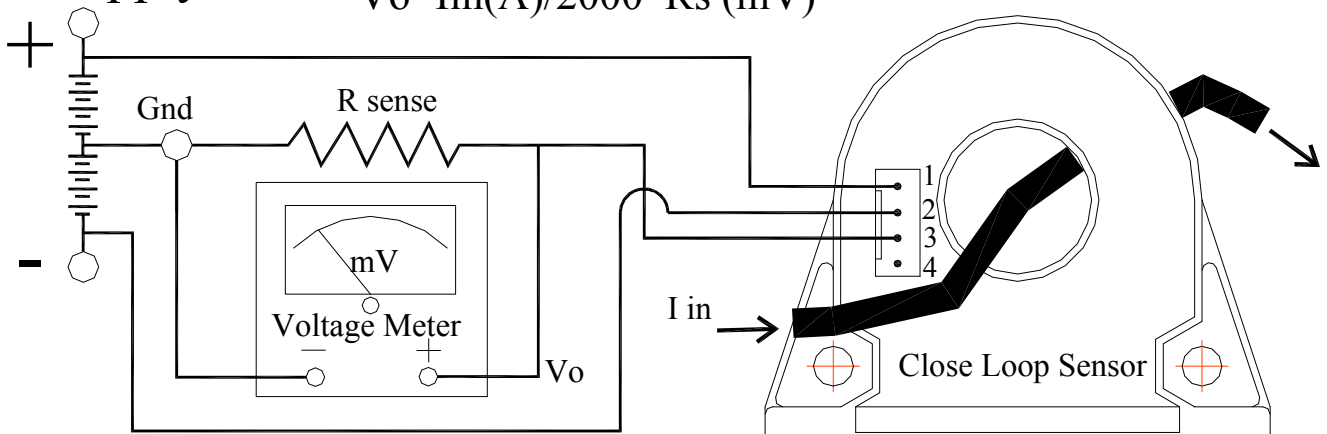
GENERAL DATA :

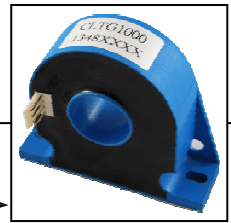
TA	Ambient Operating Temperature	-10 ~ +80°C
Ts	Ambient Storage Temperature	-25 ~ +105°C

Wire connection & test method:

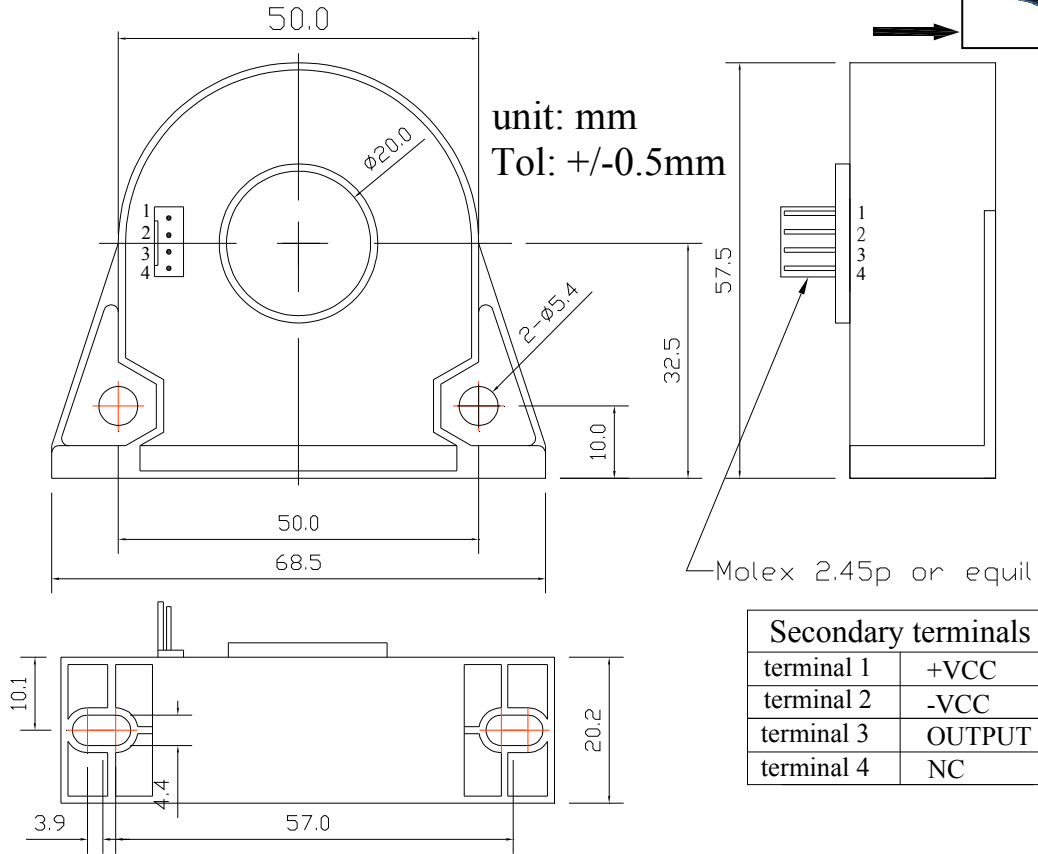
DC supply

$$V_o = I_{in}(A) / 2000 * R_s (mV)$$

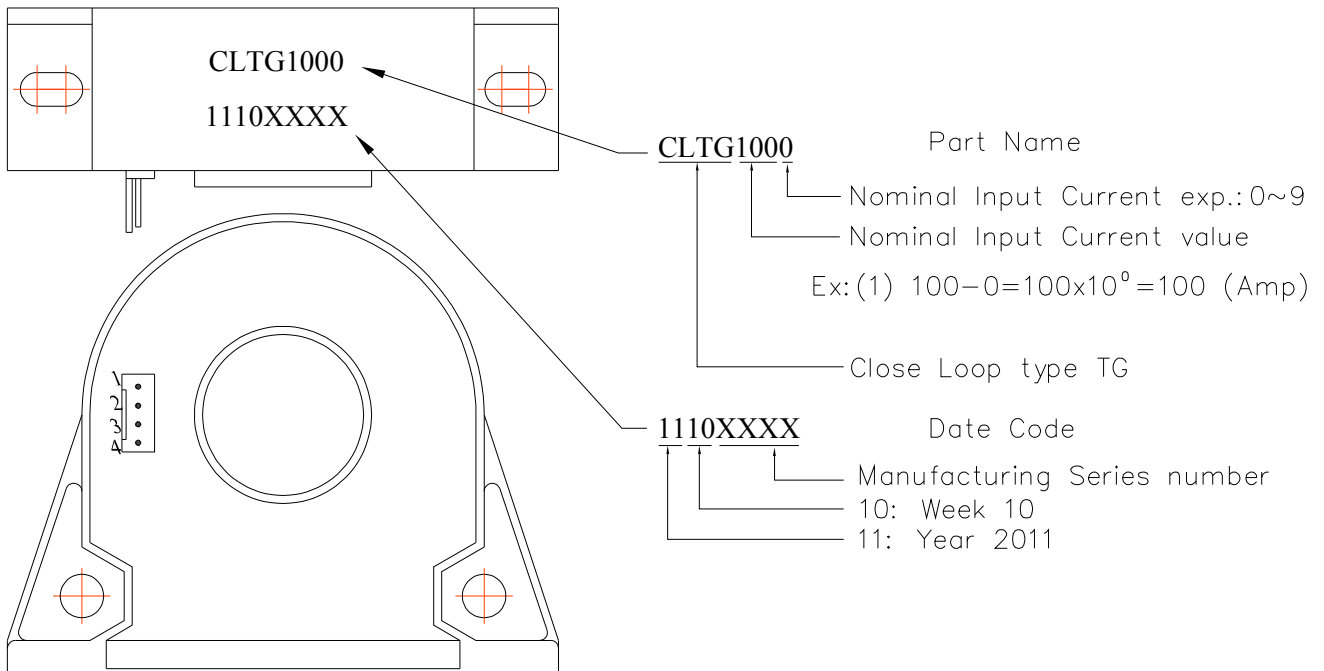




Outline dimension & Pin definition (all tolerance:±0.5)



Marking & Description



Remarks

1. Please use high accuracy Rs(resistor) while measuring current.
2. To avoid output saturated, use lower resistor under spec.