Current Sensor / Transducer

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
3	±9	CTL0030	CT012A
3.75	±11.25	CTL375B	CT012B
4	±12	CTL0040	CT012C
5	±15	CTL0050	CT012D
6.25	±18.75	CTL625B	CT012E
7.5	±22.5	CTL075A	CT012F
10	±30	CTL0100	CT012G
12.5	±37.5	CTL125A	CT012H
15	±45	CTL0150	CT012I
18.5	±55.5	CTL185A	CT012J
20	±60	CTL0200	CT012K
25	±75	CTL0250	CT012L
30	±90	CTL0300	CT012M
35	±105	CTL 0350	CT012N
37.5	±112.5	CTL 375A	CT012O
40	±120	CTL 0400	CT0012P
45	±135	CTL 0450	CT012Q
50	±150	CTL 0500	CT012R
Vcc	Supply Voltage		±15V ±5%
Ic	Current Consumption		<20mA
Vis	R.M.S. Voltage for 2.5KVAC Isolation test, 50/60Hz,1min		<10mA
Ris	Isolation Resistance at 500 VDC		>500Mohm

ELECTRICAL DATA/OUTPUT

Vout	Output voltage at Ir,T_A=25℃	4V
Rout	Output Impedance	<150 ohm
R_L	Load Resistor	>10Kohm

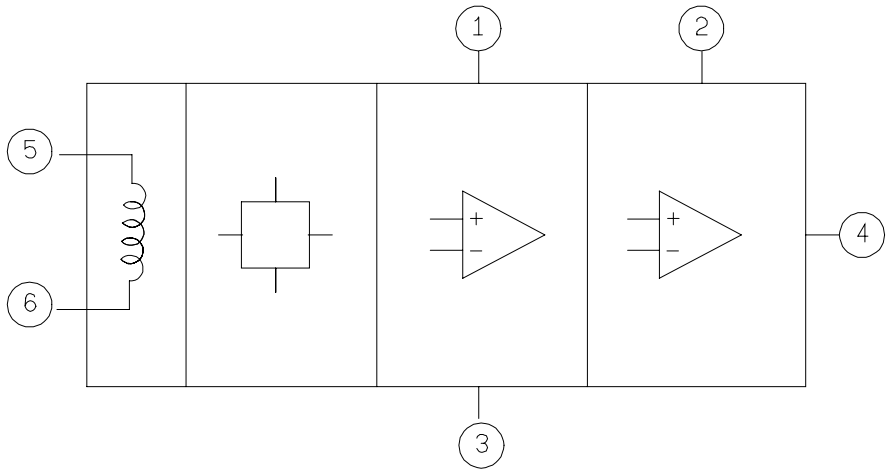
ACCURACY：

X	Accuracy at Ir,T_A=25℃(without offset)	<1%
E_L	Linearity from 0 to Ir,T_A=25℃	<1%
Voe	Electrical Offset Voltage , T_A=25℃	<40mV
Vom	Magnetic Offset Voltage (Ir→0)	<15mV
Vot	Thermal Drift of Offset Voltage	<1.5mV/℃
T.C.	Thermal Drift (-10℃ to 50℃)	<±0.1%/℃
Tr	Response Time @90% of Ip(f=1KHz)	<3uS
fb	Frequency Bandwidth (-3dB)	50KHz

GENERAL DATA：

T_A	Ambient Operating Temperature	-10 ~ +80℃
Ts	Ambient Storage Temperature	-25 ~ +85℃

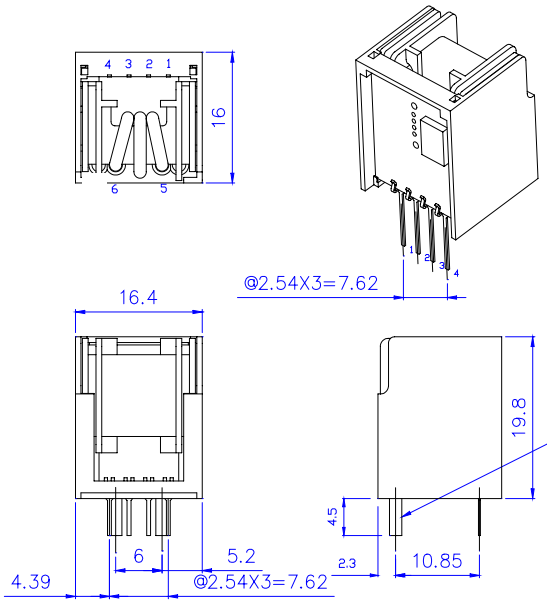
Function Block Diagram



1. V−
2. Ground
3. V+
4. Output
5. Coil Input +
6. Coil Input −

Pin Definition

DIMENSIONS:(mm) Tolerance: ±0.3mm



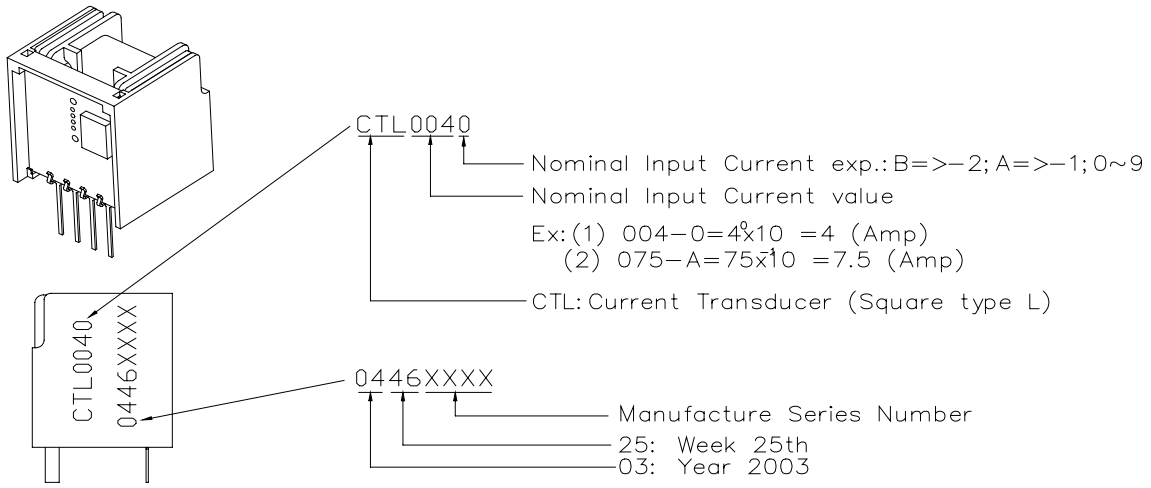
Terminal Pin Identification

1. V−
2. Ground
3. V+
4. Output
5. Coil Input +
6. Coil Input −

Primary Conductor Terminal

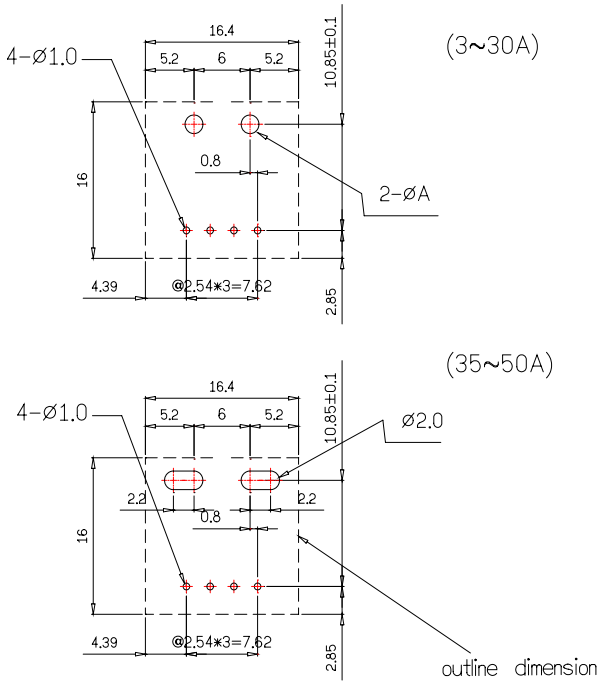
CTL0030	ø0.6
CTL375B	ø0.6
CTL0040	ø0.6
CTL0050	ø0.8
CTL625B	ø0.8
CTL075A	ø1.0
CTL0100	ø1.0
CTL125A	ø1.6
CTL0150	ø1.6
CTL185A	ø1.6
CTL0200	ø1.6
CTL0250	ø1.6
CTL0300	ø1.6
CTL0350	ø1.6X2
CTL375A	ø1.6X2
CTL0400	ø1.6X2
CTL0450	ø1.6X2
CTL0500	ø1.6X2

Marking & Description



Hole recommend

DIMENSIONS:(mm)



Part Name	ØA(mm)
CTL0030	Ø1.0
CTL375B	Ø1.0
CTL0040	Ø1.0
CTL0050	Ø1.2
CTL625B	Ø1.2
CTL075A	Ø1.4
CTL0100	Ø1.4
CTL125A	Ø2.0
CTL0150	Ø2.0
CTL185A	Ø2.0
CTL0200	Ø2.0
CTL0250	Ø2.0

NOTE：

1. For the purpose of quality innovation, we will change circuit, layout and even component without notice. However we assure all the performance is in accord with this data sheets specification.
2. Our product is been qualified by our QA system, we offer 6 months guarantee period after shipping. It supplies only under the right application of the user, We make no assurance while improper operation.