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## NC Series Current Transducer

### Applications:

For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic isolation between the primary circuit (high power) and the secondary circuit (electronic circuit).

### Main technical data:

1. Primary normal current $I_{PN}$ (r.m.s)	Primary current measuring range $I_P$	Type
50A	+/-150A	NC -50A
100A	+/-300A	-100A
200A	+/-600A	-200A
300A	+/-900A	-300A
400A	+/-900A	-400A
500A	+/-900A	-500A
600A	+/-900A	-600A
2. Supply voltage(+/-5%): +/-15V		
3. Current consumption: $\leq 25\text{mA}$		
4. Isolation test: Between the primary circuit to the secondary circuit(+.-.M): $3\text{kVrms}/50\text{Hz}/1\text{min}$		
5. Normal output voltage @ $R_L=10\text{k}\Omega$ , $T_A=+25^\circ\text{C}$ : 4V		
6. Loading resistance: $\geq 10\text{k}\Omega$		



### Accuracy – Dynamic performance Data

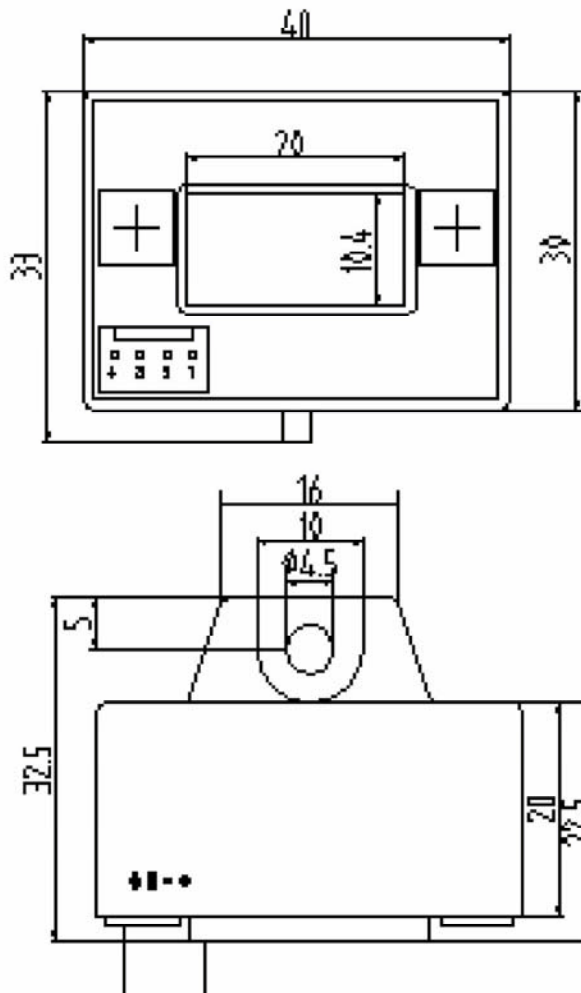
- Accuracy @  $I_{PN}$ ,  $T_A=+25^\circ\text{C}$ : +/-1%
- Non-linearity ( $0 \sim I_{PN}$ ): +/-1%
- Electrical offset voltage  $V_{OE}$ ,  $T_A=+25^\circ\text{C}$ :  $\leq +/-40\text{mV}$
- Thermal drift of  $V_{OE}$ :  $\leq \pm 1\text{mV}/^\circ\text{C}$  ( $-10^\circ\text{C} \sim +70^\circ\text{C}$ )
- Response time (@ 90% of  $I_P$ ):  $\leq 3\mu\text{s}$
- $di/dt$  accurately followed:  $> 50\text{A}/\mu\text{s}$
- Frequency bandwidth(0.5dB): DC  $0 \sim 50\text{kHz}$

**General data:**

1. Operating temperature:  $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$
2. Storage temperature:  $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
3. Weight: approx.  $60\text{g} \pm 5\text{g}$
4. Standards: EN50178

**Features:**

1. Hall effect measuring principle
2. Galvanic isolation between primary and secondary circuit
3. Insulated plastic case made of white PPO recognized according to UL 94-V0
4. The whole current transducer comply with RoHS Directive completely

**Dimension:**

**Connection:**

