

**Open Loop Current Sensor**

**Model: HOCS - 20... 600 - 12/15/24 (AC Current)**

**Product:**



**Applications:**

- Power Supplies of Welding Machines
- Robotics
- UPS & SMPS
- Electric Vehicles
- AC Variable Speed Drives
- Batteries related applications
- Automation

**Electrical Characteristics:**

<b>Supply Voltage</b>	+12 to 24 VDC ( $\pm 5\%$ )
<b>Current Consumption</b>	< 20mA
<b>Output Voltage @ I<sub>max</sub>, R=10K<math>\Omega</math> @ 25°C</b>	0-5 / 0-10 VDC
<b>Accuracy @ T<sub>a</sub> = 25°C</b>	$\pm 1\%$
<b>Linearity</b>	< $\pm 1\%$ of I <sub>max</sub>
<b>Output Offset Voltage @ 0A (Excluding Electrical Offset)</b>	< 100mV
<b>Frequency Bandwidth (-3dB)</b>	50 Hz
<b>Insulation resistance @500 VDC</b>	> 1000 M $\Omega$
<b>Load Resistance</b>	> 6 K $\Omega$

**Electrical Characteristics:**

<b>Electrical Offset Voltage, @ 25 °C</b>	< 100 mV
<b>Hysteresis Offset Voltage@ Ip = 0,after RMS current limit</b>	< ±20 mV
<b>Temperature coefficient of VOE, HOCS-50-24</b>	< ±2 mV/K
<b>Temperature coefficient of VOE, HOCS-10...600-24</b>	< ±1 mV/K
<b>Temperature Coefficient of VOUT (% of reading)</b>	< ±0.1 %/K
<b>Step response time to 90% of RMS current limit</b>	< 100 mSec

**Insulation Characteristics:**

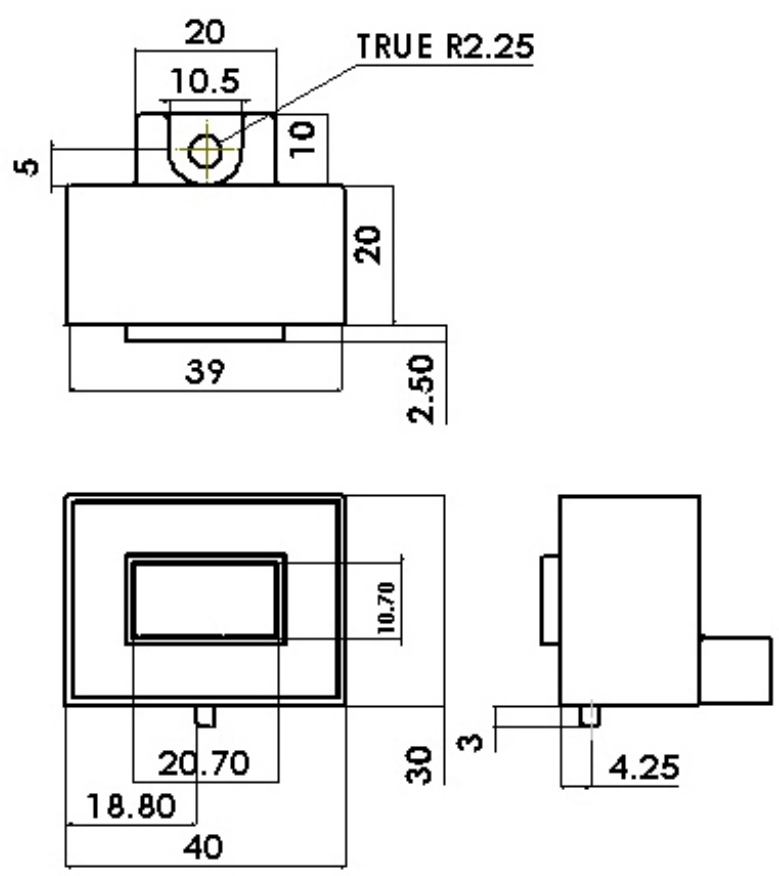
<b>RMS Voltage for AC Insulation test, 50 Hz/ 1 min</b>	3.6 kV
<b>Impulse withstand voltage 1.2/50 µsec</b>	>6.6 kV

	<b>EN 50178</b>	<b>IEC 61010-1</b>
	Basic Insulation Voltage	Nominal Voltage
Basic Insulation	600 V	600 V
Reinforced Insulation	300 V	300 V

**Mechanical Characteristics:**

<b>Ambient Operating Temperature</b>	-10°C to +80°C
<b>Ambient Storage Temperature</b>	-25°C to +80°C
<b>Mass</b>	60gm

**Dimensional Drawings:**



All dimensions are in millimeters

**Pin Configurations:**

