



PRAVDHAN

SENSORS & CONTROLS PRIVATE LIMITED



Compliant Product



Certified Product

Open Loop Current Sensor

Model: HOCS - 50... 600 - 15

Product:



Applications:

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

Electrical Characteristics:

Type	Primary nominal RMS current	Primary current measuring range
HOCS-50-15	50	±150
HOCS-100-15	100	±300
HOCS-200-15	200	±600
HOCS-300-15	300	±900
HOCS-400-15	400	±900
HOCS-500-15	500	±900
HOCS-600-15	600	±900

Supply Voltage	+15VDC, ±5%
Current Consumption	±15mA
Output Voltage @ I _{max} , R=10KΩ @ 25°C	±4 ±0.04VDC
Accuracy @ T _a = 25°C	±1%
Linearity	<±1% of I _{max}
(Excluding Electrical Offset) Output Offset Voltage @ 0A	< ±20mV
Frequency Bandwidth (-3dB)	DC -50KHz
Insulation resistance @500 VDC	> 1000 MΩ
Load Resistance	>1 KΩ

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Electrical Characteristics:

Electrical Offset Voltage, @ 25 °C	< ±15 mV
Hysteresis Offset Voltage@ Ip = 0,after RMS current limit	< ±20 mV
Temperature coefficient of V_{OE} , HOCS-50-15	< ±2 mV/K
Temperature coefficient of V_{OE} , HOCS-100...600-15	< ±1 mV/K
Temperature Coefficient of V_{OUT} (% of reading)	< ±0.1 %/K
Step response time to 90% of RMS current limit	< 3 µSec

1. The measuring range decreases when the supply voltage decreases from ±15 VDC to ±12 VDC
2. To have a full measuring range, the load resistor should be 10 KΩ, nominal current can only be measured when the load resistor used is 1 KΩ

Insulation Characteristics:

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

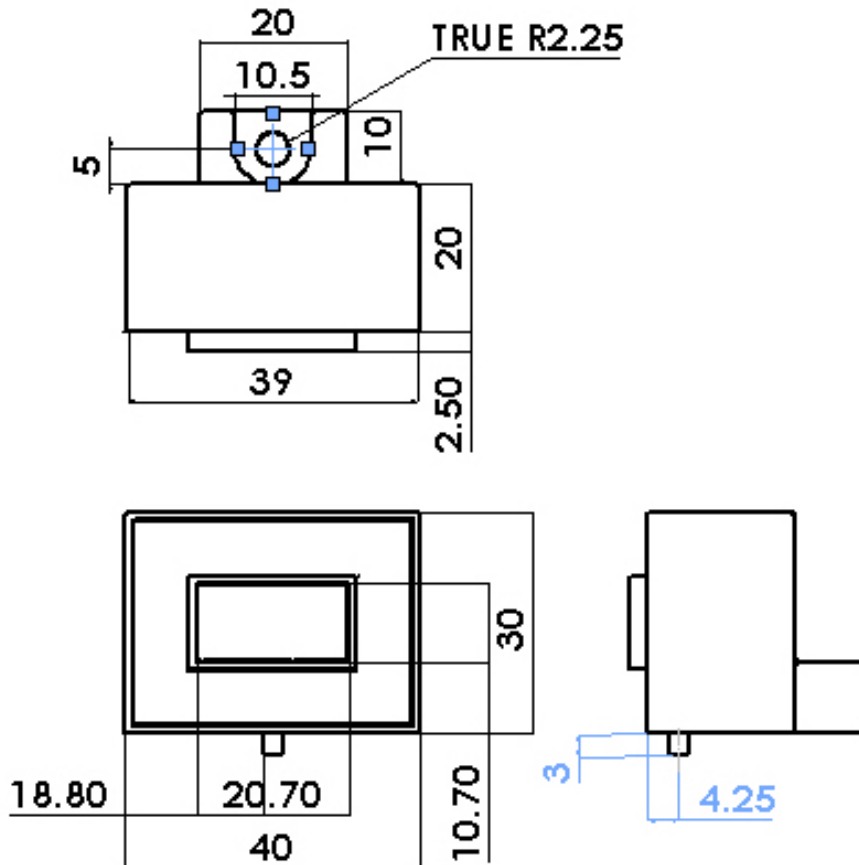
	EN 50178	IEC 61010-1
	Basic Insulation Voltage	Nominal Voltage
Basic Insulation	600 V	600 V
Reinforced Insulation	300 V	300 V

Mechanical Characteristics:

Ambient Operating Temperature	-10°C to +80°C
Ambient Storage Temperature	-25°C to +80°C
Mass	60gm



Dimensional Drawings:



Pin Configurations:

