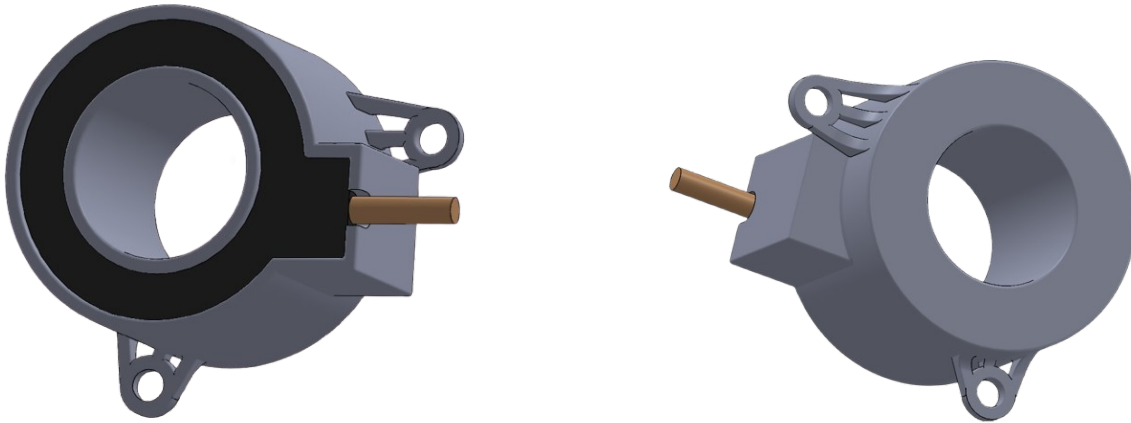


Open Loop Current Sensor

Model: EVCSDA-75/500-5 and EVCSDA-75/1000-5

Product:



Applications:

- BMS of Electric Vehicle.
- Current sensing in BESS.

Electrical Characteristics:

Supply Voltage	+5 VDC, $\pm 10\%$
Current Consumption	<40mA
Output Voltage @ I_{max} , $R=10K\Omega$ @ $25^{\circ}C$	2.5 ± 2 VDC ($50\% \pm 40\%$)
Accuracy @ $T_a = 25^{\circ}C$	$\pm 1\%$
Linearity	< $\pm 1\%$ of I_{max}
(Excluding Electrical Offset) Output Offset Voltage @ 0A	< +50mV
Frequency Bandwidth (-3dB)	25 kHz
Insulation resistance @500 VDC	>1000 M Ω
Load Resistance	>6 K Ω

Electrical Characteristics:

Electrical Offset Voltage, @ 25 C	< 50 mV
Hysteresis Offset Voltage@ Ip = 0,after RMS current limit	< ±20 mV
Temperature coefficient of VOE, CSHAT-5	< ±2 mV/K
Temperature coefficient of VOE, CSHAT-5	< ±1 mV/K
Temperature Coefficient of VOUT (% of reading)	< ±0.1 %/K
Step response time to 90% of RMS current limit	< 10 uSec

Insulation Characteristics:

RMS Voltage for AC Insulation test, 50 Hz/ 1 min	3.6 kV
Impuse 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	300gm

Current sensor Variants:

- Model EVCSDA-75/500-5:
Current 1: 75 Amperes, Current 2: 500 Amperes
- Model EVCSDA-75/1000-5:
Current 1: 75 Amperes, Current 2: 1000 Amperes



PRAVDHAN

SENSORS & CONTROLS PRIVATE LIMITED

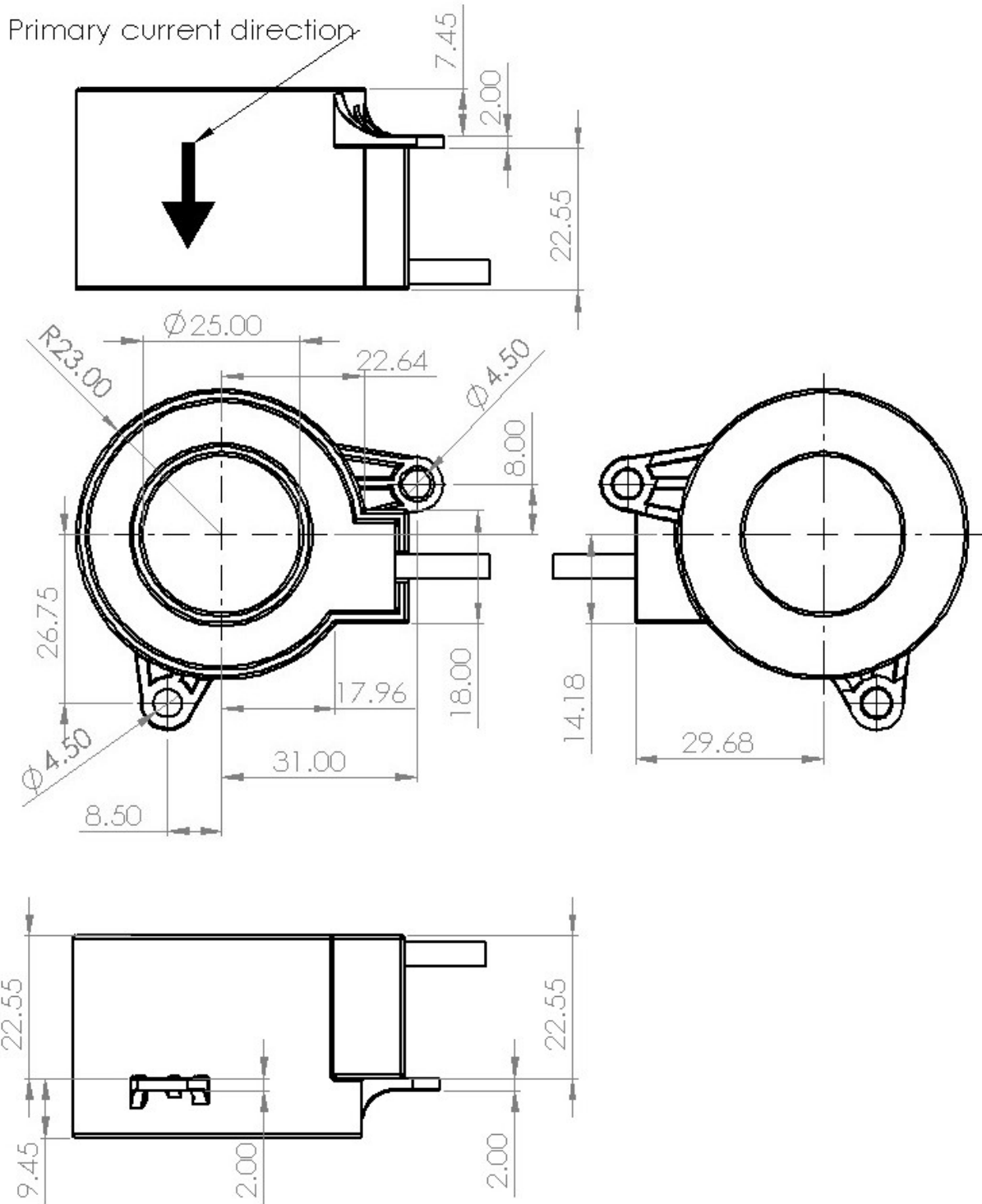


Compliant Product



Certified Product

Dimensional Drawings:



All dimensions are in millimeters

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