

Closed Loop Hall Current Sensor CYHCS-B3V

This Hall Effect current sensor is based on closed loop compensating principle and can be used for measurement of DC and AC current, pulse currents etc. The output of the transducer reflects the real wave of the current carrying conductor.

Product Characteristics	Applications
<ul style="list-style-type: none">• Excellent accuracy• Very good linearity• Small size and encapsulated• Less power consumption• Current overload capability	<ul style="list-style-type: none">• General Purpose Inverters• AC/DC Variable Speed Drivers• Battery Supplied Applications• Uninterruptible Power Supplies (UPS)• Switched Mode Power Supplies

ELECTRICAL CHARACTERISTICS

Part number	CYHCS-B3V-50A	CYHCS-B3V-100A	CYHCS-B3V-200A	CYHCS-B3V-300A
Rated current (RMS)	±50A	±100A	±200A	±300A
Max. input current	±100A	±200A	±400A	±450A
Load resistance	>10kΩ			
Rated output voltage	±4V			
Supply voltage	±15 VDC ±5%			
Galvanic isolation	3kV RMS/50Hz/1min,			

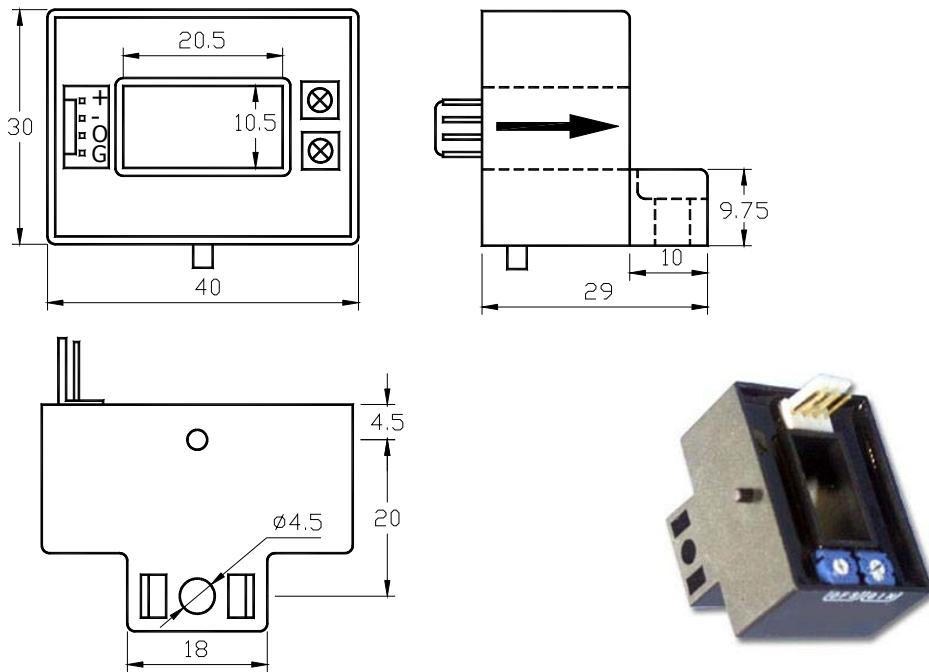
ACCURACY DYNAMIC PERFORMANCE

Zero offset voltage	<±20mV
Thermal drift of output voltage	±0.02%/°C
Thermal drift of zero offset voltage	±0.01%/°C
Response time	<1.0μs
Accuracy	±0.5%
Linearity	≤0.1% FS
Hysteresis error	<20mV
Bandwidth(-3dB)	DC ~ 150kHz

GENERAL CHARACTERISTIC

Operating temperature	-20°C~+75°C
Storage temperature	-40°C~+90°C
Current consumption	<16mA

Dimensions (mm)



Terminal +: +15V, Terminal -: -15V, Terminal O: Output, Terminal G: ground