

Closed Loop Hall Current Sensor CYHCS-D4C/D4V

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• Less power consumption• Current overload capability• Goods temperature properties	<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-D4C-50A	CYHCS-D4C-100A	CYHCS-D4V-50A	CYHCS-D4V-100A
Rated current (rms)	±50A	±100A	±50A	±100A
Max. input current	±100A	±200A	±100A	±200A
Load resistance (at rated current)	40 – 82kΩ	20 – 25kΩ	10kΩ	
Rated output voltage	±50mA	±100mA	±4V	
Current consumption	12mA + Output current			<16mA
Zero offset current	±0.2mA			±20mV
Hysteresis error	0.5mA			20mV
Supply voltage	±15 VDC ±5%			
Galvanic isolation	3kV RMS/50Hz/1min,			

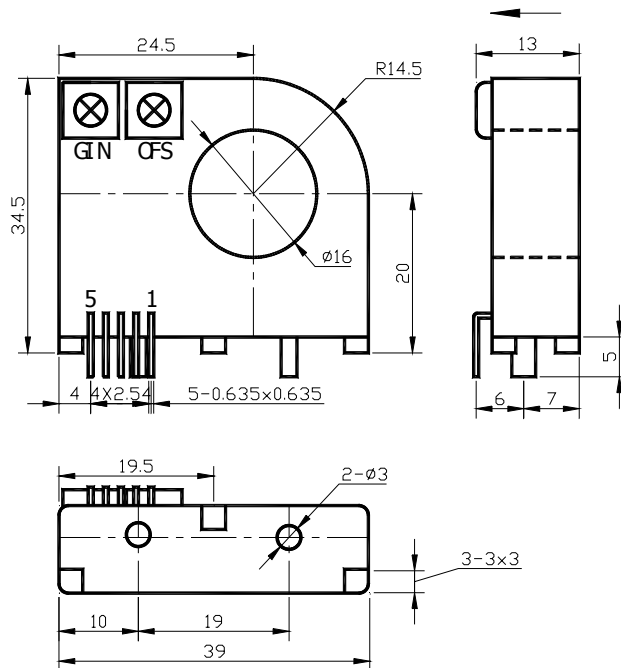
ACCURACY DYNAMIC PERFORMANCE

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

GENERAL CHARACTERISTIC

Operating temperature	-20°C ~ +75°C
Storage temperature	-40°C ~ +90°C

Dimensions (mm)



Terminal 1: +15V,
Terminal 2: -15V,
Terminal 3: Output,
Terminal 4: ground
Terminal 5: NC