

Open Loop Hall Current Sensor CYHCS-K200

This Hall Effect current sensor is based on open loop 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 CHARACTERISTIC

	CYHCS-K200-10A	CYHCS-K200-30A	CYHCS-K200-50A
Nominal current	10A	30A	50A
Measuring range	0 ~ 20A	0 ~ 60A	0 ~ 100A
Nominal analogue output voltage	1V ± 1.0%		
Supply voltage	+5V ±5%		
Galvanic isolation	50Hz, 1min, 2.5kV		

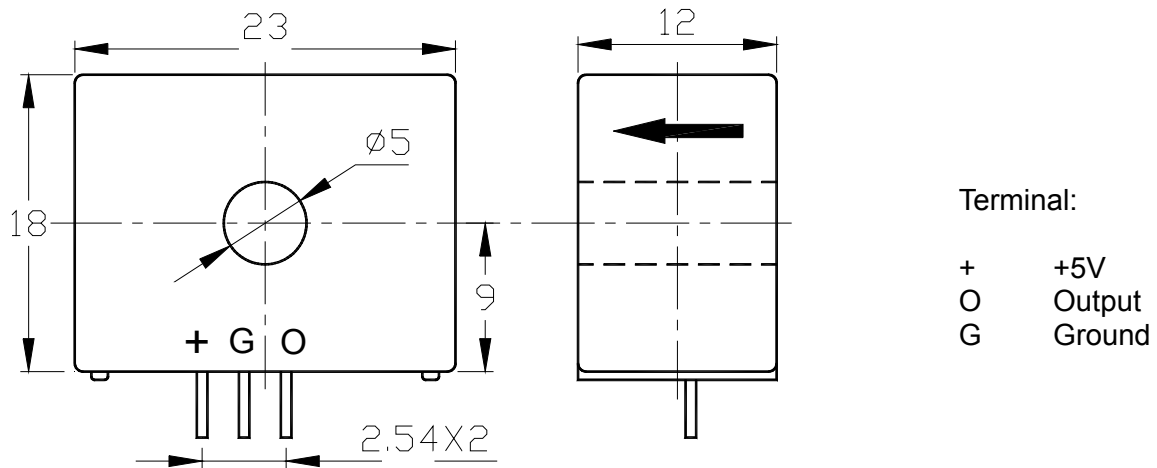
ACCURACY DYNAMIC PERFORMANCE

Zero offset voltage at +25°C	2.5 ±0.5%	V
Thermal drift of offset voltage	≤ ±0.5	mV/°C
Measuring accuracy	≤1.0	% FS
Linearity	≤1.0	%FS
Response time	<3	μS
Bandwidth (-1db)	DC ~ 200	KHz

GENERAL CHARACTERISTIC

Operating temperature	-40 ~ +85	°C
Storage temperature	-55 ~ +125	°C
Current consumption	10	mA

Dimensions (mm)



Notes:

1. Connect the terminals of power source, outputs respectively and correctly, never make wrong connection.
2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
3. The best accuracy can be achieved when the window is fully filled with bus-bar (current carrying conductor).
4. The in-phase output can be obtained when the current direction of current carrying conductor is the same as the direction of arrow marked on the transducer case.