



This Hall Effect current sensor is based on open loop principle and designed with a split core and a high galvanic isolation between primary and secondary circuits. It can be used for measurement of AC current, pulse currents etc. The output of the transducer reflects the real wave of the current carrying conductor.

Product Characteristics	Applications
 Excellent accuracy Very good linearity Using split cores and easy mounting Less power consumption Window structure Electrically isolating the output of the transducer from the current carrying conductor No insertion loss Current overload capability 	Photovoltaic equipment Frequency conversion timing equipments Various power supply Uninterruptible power supplies (UPS) Electric welding machines Transformer substation Numerical controlled machine tools Electric powered locomotive Microcomputer monitoring Electric power network monitoring

Electrical Data

Primary Nominal RMS Current I_r (A)	Measuring Range RMS (A)	DC Output voltage (V)	Aperture Diameter (mm)	Part number
30	60			CYHCS-EKAD30A-C
50	100			CYHCS-EKAD50A-C
100	200	0-5 ±1.0%	Ø21	CYHCS-EKAD100A-C
200	400	0-3 ±1.0%	WZI	CYHCS-EKAD200A-C
400	800			CYHCS-EKAD400A-C
500	1000			CYHCS-EKAD500A-C

(Connector: Molex connector C=M; Phoenix Connector: C=P)

Supply Voltage	$V_{cc} = \pm 15 \text{V} \pm 5\%$,
Current Consumption	I_c < 25mA
Galvanic isolation, 50/60Hz, 1min:	2.5kV
Load resistance:	10kΩ
Isolation resistance @ 500 VDC	> 500 MΩ

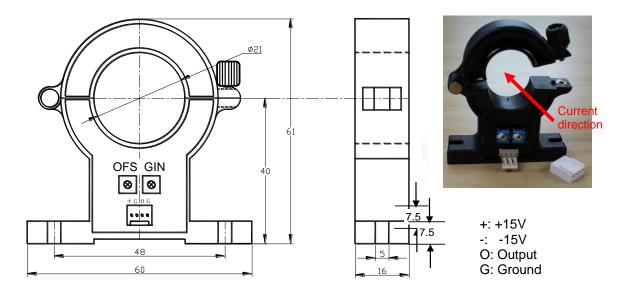
Accuracy and Dynamic performance data

Accuracy at I_r , T_A =25°C (without offset),	<i>X</i> <1.0%
Linearity from 0 to I_r , $T_A=25$ °C,	<i>E_L</i> <1.0% FS
Electric Offset Voltage, T_A =25°C,	V_{oe} <25mV
Thermal Drift of Offset Voltage,	V_{ot} <±0.5mV/°C
Response Time at 90% of I_P (f =1k Hz)	t_r < 20ms
Frequency bandwidth (- 3 dB):	20Hz - 20kHz

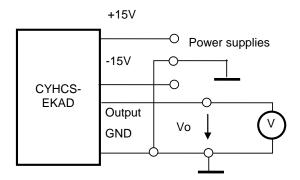
General Data

Ambient Operating Temperature,	$T_A = -25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Ambient Storage Temperature,	$T_{\rm S}$ =-40°C ~ +100°C

PIN Definition and Dimensions



Connection





Notes:

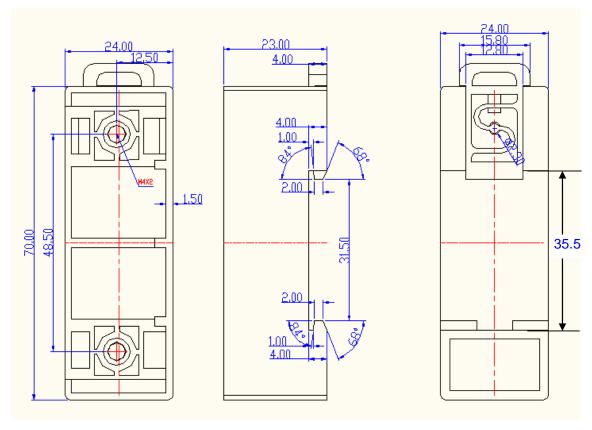
- 1. Connect the terminals of power source, outputs respectively and correctly, never make wrong connection.
- 2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
- 3. The best accuracy can be achieved when the window is fully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

DIN Rail Adapter CY-DRA88

The DIN Rail Adapter CY-DRA88 is designed for mounting the sensor on 35mm DIN Rail. It has the size 70 x 24 x 23mm. The height from bottom to mounting surface is 14.8mm.







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CYHCS-EKADA Current Sensor

Mounting of Sensors





Sensor with Molex Connector (The distance between the bottom and the middle of hole is 54.8mm)





Sensor with Phoenix Connector (The distance between the bottom and the middle of hole is 54.8mm)



For more information and certifications, please contact:

Panel Components & Systems, Inc. ■ Phone: (800) 523-9194 ■ info@pc-s.com

Main Office:

Stanhope, NJ

Phone: (973) 448-9400