

**Open Loop Hall Effect Current Sensor CYHCT-E4B**

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

<b>Product Characteristics</b>	<b>Applications</b>
<ul style="list-style-type: none"> <li>• Excellent accuracy</li> <li>• Very good linearity</li> <li>• Small size</li> <li>• Light in weight</li> <li>• Less power consumption</li> <li>• Window structure</li> <li>• Electrically isolating the output of the transducer from the current carrying conductor</li> <li>• No insertion loss</li> <li>• Current overload capability</li> </ul>	<ul style="list-style-type: none"> <li>• Frequency conversion timing equipments</li> <li>• Various power supply</li> <li>• Uninterruptible power supplies (UPS)</li> <li>• Electric welding machines</li> <li>• Transformer substation</li> <li>• Numerical controlled machine tools</li> <li>• Electrolyzing and electroplating equipments</li> <li>• Electric powered locomotive</li> <li>• Microcomputer monitoring</li> <li>• Electric power network monitoring</li> </ul>

**ELECTRICAL DATA**

Part number	Measuring range	Linearity range	Overload capacity
CYHCT-E4B-10mA-XY	10mA	15mA	200mA
CYHCT-E4B-100mA-XY	100mA	150mA	2A
CYHCT-E4B-200mA-XY	200mA	300mA	4A
CYHCT-E4B-500mA-XY	500mA	750mA	10A
CYHCT-E4B-1A-XY	1A	1.5A	20A
CYHCT-E4B-2A-XY	2A	3A	40A
CYHCT-E4B-5A-XY	5A	7.5A	100A
CYHCT-E4B-10A-XY	10A	15A	200A

Nominal output voltage	Y=1 for 0-4V, Y=2 for 0-5V	V
Supply voltage	X=3 for +12V, X=4 for +15V, X=5 for +24V	V
Current consumption	≤25	mA
Galvanic isolation	3KV RMS/50Hz/min	KV

**ACCURACY DYNAMIC PERFORMANCE**

Zero offset voltage	±20	mV
Hysteresis error	±10	mV
Thermal drift of offset current	≤250	ppm/°C
Response time	≤10	μs
Accuracy	±1.0	%
Linearity	≤1.0	%FS

