

Open Loop Hall Effect Current Sensor CYHCT-E6

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.

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

ELECTRICAL DATA

Part number	Measuring range	Linearity range	Overload capacity
CYHCT-E6-300A-XY	300A	450A	6kA
CYHCT-E6-400A-XY	400A	600A	8kA
CYHCT-E6-500A-XY	500A	750A	10kA
CYHCT-E6-600A-XY	600A	900A	12kA
CYHCT-E6-800A-XY	800A	1200A	16kA
CYHCT-E6-1000A-XY	1000A	1500A	20kA
CYHCT-E6-1200A-XY	1200A	1800A	24kA

Nominal output voltage	Y=1 for 0-4V, Y=2 for 0-5V	V
Supply voltage	X=1 for $\pm 12V \pm 5\%$, X=2 for $\pm 15V \pm 5\%$	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/ $^{\circ}C$
Response time	≤ 10	μs
Accuracy	± 1.0	%
Linearity	≤ 1.0	%FS

