

Open Loop Hall Effect Current Sensor CYHCS- F7

This Hall Effect current sensor is based on open loop principle and can be used for measurement of AC 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 • Small size • Light in weight • Less power consumption • Window structure • Electrically isolating the output of the transducer from the current carrying conductor • No insertion loss • Current overload capability 	<ul style="list-style-type: none"> • Frequency conversion timing equipments • Various power supply • Uninterruptible power supplies (UPS) • Electric welding machines • 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
CYHCS-F7-100A-XY	100A	150A	2kA
CYHCS-F7-200A-XY	200A	300A	4kA
CYHCS-F7-300A-XY	300A	450A	6kA
CYHCS-F7-400A-XY	400A	600A	8kA
CYHCS-F7-500A-XY	500A	750A	10kA
CYHCS-F7-600A-XY	600A	900A	12kA
CYHCS-F7-800A-XY	800A	1200A	16kA

Nominal output voltage	Y=1 for 0-4V (rms), Y=2 for 0-5V (rms)	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	≤ 500	ppm/ $^{\circ}C$
Response time	≤ 10	μs
Accuracy	± 1.0	%
Linearity	≤ 1.0	%FS

