



Open Loop Hall Effect Current Sensor CYHCS-F6F

This Hall Effect current sensor is based on open loop principle and can be used for measurement of AC currents. The output (rms) 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-F6F-800A-XY	800A	1200A	16kA
CYHCS-F6F-1000A-XY	1000A	1500A	20kA
CYHCS-F6F-1500A-XY	1500A	2250A	30kA
CYHCS-F6F-2000A-XY	2000A	3000A	40kA
CYHCS-F6F-2500A-XY	2500A	3750A	50kA

Nominal output current	$Y=3$ for 0-20mA (rms), $Y=4$ for 4-20mA(rms)	mA
Supply voltage	$X=1$ for $\pm 12V \pm 5\%$, $Y=2$ 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

