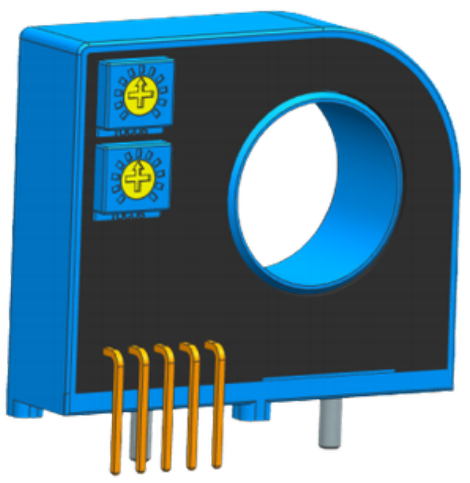
Open-Loop Hall Current Sensor

YCOV50..300LB



It can be used to measure DC, AC, and pulse current.The primary and secondary circuits are fully insulated.There is no insertion loss.

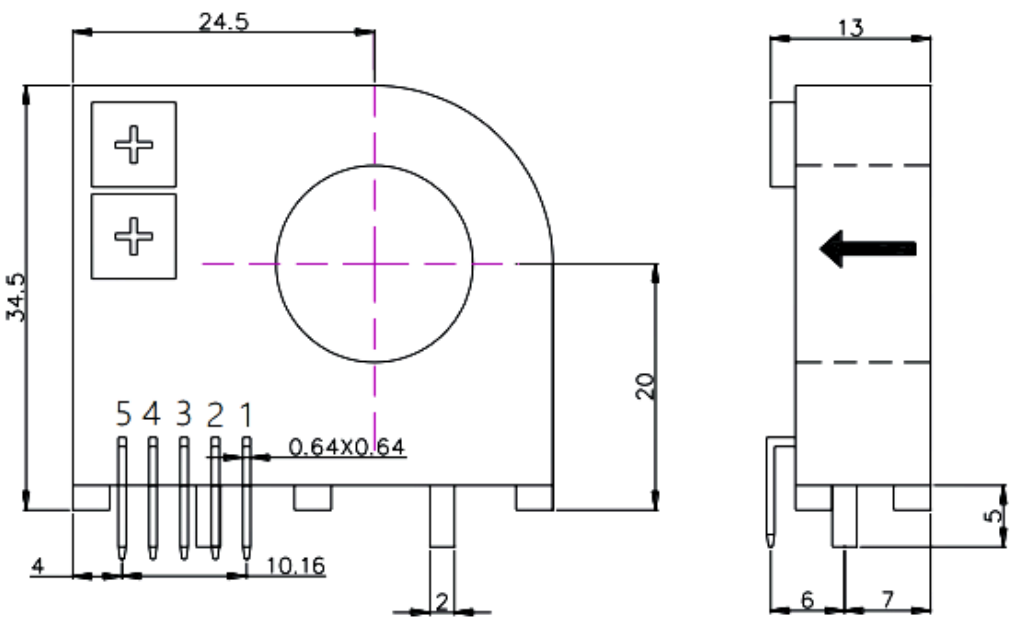
Product Model	Rated Current IPN(A)	Max Measuring Range IPM(A)
YCOV50LB	50	150
YCOV100LB	100	200
YCOV150LB	150	300
YCOV200LB	200	400
YCOV300LB	300	450

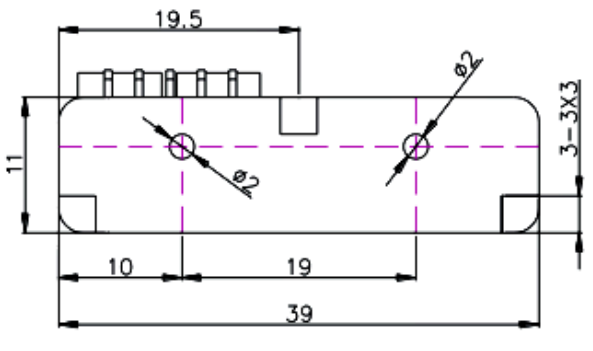
Application Area
• Switching Power Supplies
• AC Variable Speed Drives
• Uninterruptible Power Supplies (UPS)
• Testing Equipment
• Instruments and Meters

Executive Standards

- JB/T 7490-2007 Hall Effect Current Sensors
- SJ20790-2000 General Specification for Current and Voltage Sensors

Outline Dimensions and Pin Definition (Unit: mm)





Pins	Connected
1	+15V
2	-15V
3	OUT
4	GND
5	NC

- General Tolerance： ±1 mm
- Other Tolerances Standard： GB/T 1804-2000-M

Electrical Parameter Characteristics @ Ta = 25°C

Parameter Description	Symbol	Unit	Test Condition	Min	Typ	Max
Supply Voltage	VCC	V	@DC	±12V	±15V	±18V
Power Consumption Current	IC	mA	@IPN		±15	
Rated Output	VOUT	V	@RL=10K, T=25℃		±4	
Static Zero-Point Output	VOθ	mV	@IP=0A, T=25℃	-20	0	20
Hysteresis Voltage	VOM	mV	@IP=0A, T=25℃	-20	0	20
Load Resistance	RL	Ω	@DC, ±15V, IPN		10K	
Accuracy	XG	%	@IPN, T=25℃		±1	
Linearity	εB	%	@IPN, T=25℃		±1	
Current Tracking Accuracy	di/dt	A/μs		50		
Response Time	TR	μs	@90%IPN			3
Zero-Point Output Drift (Temperature)	TCVOE	mV/℃	@-40℃~+85℃, 50A		±1.5	
			@-40℃+85℃, 100A-300A		±1	
Rated Output Drift (Temperature)	TCVOUT	%/℃	@-40℃~+85℃		±0.1	
Operating Bandwidth	BW	kHz			DC 20	
Operating Temperature Range	TA	℃		-40℃	-	+85℃
Storage Temperature Range	TS	℃		-45℃	-	+105℃
Withstand Voltage	Vd	V	@AC 50/60Hz, 1 minute		3000	
Insulation Resistance		Ω	@DC500V	1000M		

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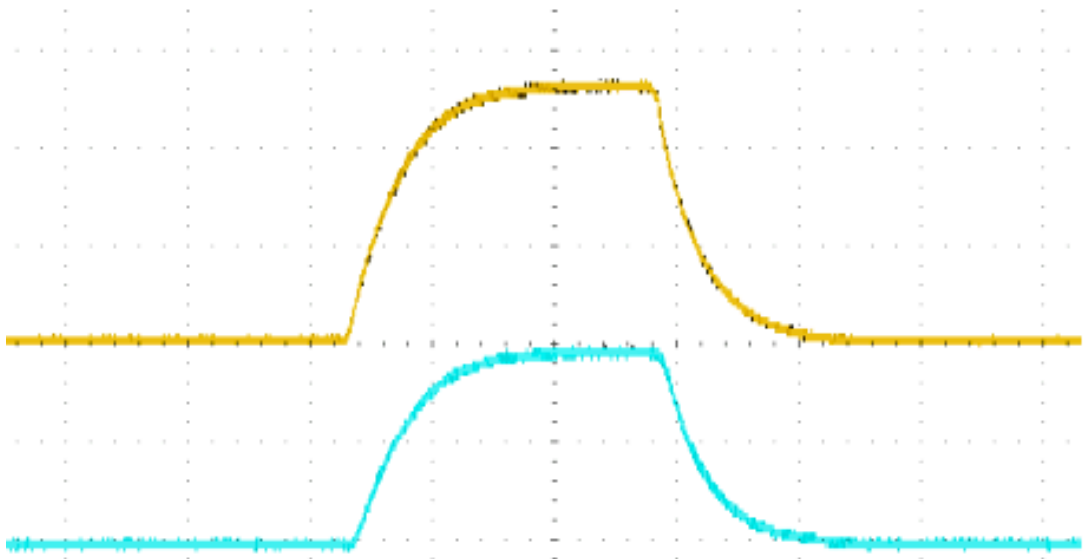
Response Time Characteristics



Usage Instructions and Precautions

- Refer to the current direction arrow in the structural diagram to connect the current correctly, and pay attention to the forward and reverse directions of the current passing through the sensor.
- Strictly follow the functional pin definitions marked in the structural diagram for wiring (Note: Incorrect wiring may cause damage to the sensor).
- The above specifications are for standard parameter products; products can be customized according to customer requirements.

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