

## Product Description

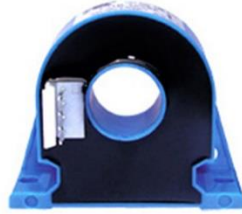
# Hall Sensor Series

Closed-loop Hall Current Sens





## Closed-loop Hall Current Sens



### Introduction

Closed- loop Hall current sensors, manufactured using the Hall magnetic compensation principle, are used to measure 50A~300A DC, AC and pulse currents. The primary side input current  $I_M$  is electrically isolated from the secondary side output current  $I_M$  and follows the input current linearly in a true manner.

### Application area

Various power supplies, welding machines, industrial automation control, electrical drives, frequency converters, motor servo, power systems, railroad systems, etc.



Closed-loop Hall Current Sensors					
Model number	Rated current	Output current	Accuracy	Supply voltage	Window dimensions
	IN (A)	IM (mA)	X (%)	Vc (V)	mm
CHB-50SF	50	50	±1.0%	±12~18	φ20
CHB-100SF	100	100	±1.0%		
CHB-200SF	200	100	±0.8%		
CHB-300SF	300	150	±0.8%		
CHB-50TF	50	50	±1.0%	±12~18	Bus bar
CHB-100TF	100	100	±1.0%		
CHB-200TF	200	100	±0.8%		
CHB-300TF	300	150	±0.8%		
parameters					
Manufacturing principles			Hall magnetic compensation principle		
Rated current			50~300A (DC、AC、Pulse current)		
Output current ratio			1 : 1000 (50A~100A) ; 1 : 2000 (200A~300A) The waveform of the output current on the secondary side is the same as that of the measured current on the primary side.		
Measuring frequency			DC~100KHz		
Response time			<1μS		
Linearity			<0.1%		
Supply voltage			±12~18V (±5%)		
Power consumption			10mA+IM (Output current)		



Insulation voltage	Between the primary and secondary circuits : 3KV valid value/50Hz/1 minute
Operating temperature	-25°C~+85°C
Installation method	Screw-fixed mounting
Application areas	Various power supplies, welding machines, industrial automation control, electrical drives, frequency converters, motor servo, power systems, railroad systems, etc.
Sector	Industry