SENSOR Module CHB-50P

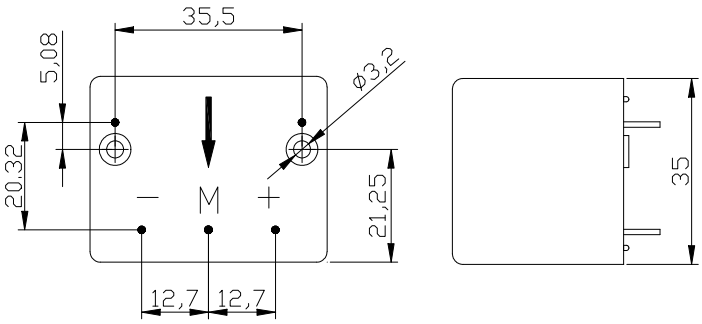
I_N = 50A

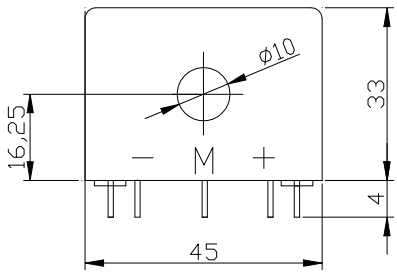
Specifications:

Closed loop Hall current sensor, Nominal current 50A RMS for measuring of currents: AC, DC, pulsed…

	Type	CHB-50P	
I_N	Nominal current (RMS)	50A	
I_P	Measuring range (I_{P-P})	0…±100A	
R_M	Measuring resistance	R_M min	R_M max
	（Vc =±15V）	40Ω (at 50A or 100A)	120Ω (at 50A); 85Ω (at 100A)
I_M	Output current	Nominal output current 100mA, for primary nominal current I_N =50A	
X	Accuracy (Ta =+25℃)	I_N±1.0%	
K_N	Turns ratio	1:500	
Vc	Supply voltage	±12V…15V (±5%)	
Vi	Isolation voltage	Between primary and secondary circuit: 3KV RMS/50Hz/1min.	
Ioff	Offset current (Ta =+25℃)	±0.3mA max, for primary current I_N=0	
Td	Temperature drift	I_M of 0.02%/℃ (-25℃…+85℃)	
L	Linearity	< 0.1%	
Tr	Response time	< 1μS	
	di/dt	> 50A/μS	
f	Frequency bandwidth	0…100KHz	
Ta	Operating temperature	-25℃…+85℃	
Ts	Storage temperature	-40℃…+90℃	
Ic	Current consumption	10mA+I_M (Output current)	
Rs	Secondary resistance	15Ω（Ta =+70℃）	
R_N	Primary resistance	-----	
W	Weight	50g	

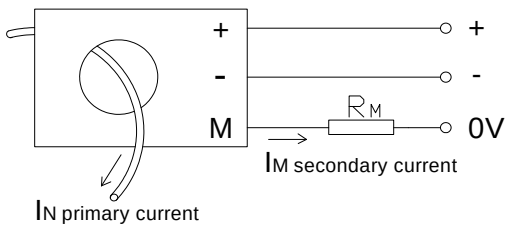
Dimensions (mm):

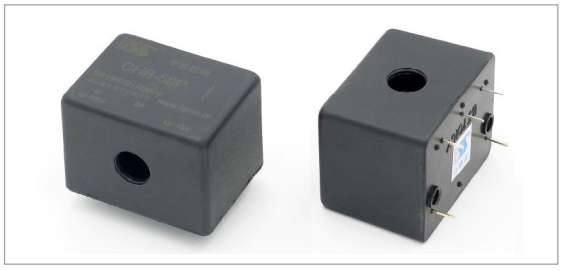




Secondary terminals:
+: supply voltage (+12…15V)
M: output
- : supply voltage (-12…15V)

Connection:





1. Output I_M is positive, when the primary current flows in the direction of the arrow.
2. Mounting: PCB

SENSOR Module is a Hall current sensor for the electronic measurement of current with a galvanic isolation between the primary and secondary circuits. By WeChat for more information.

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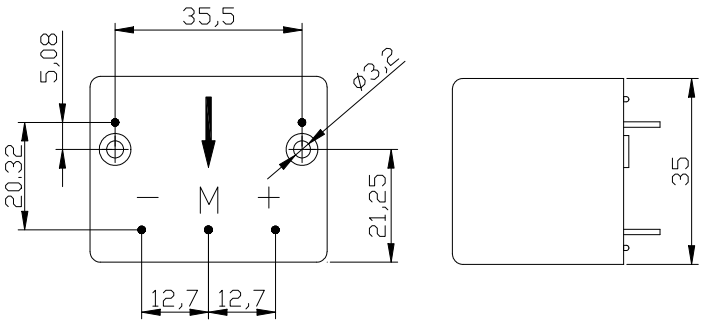
SENSOR Module CHB-100P

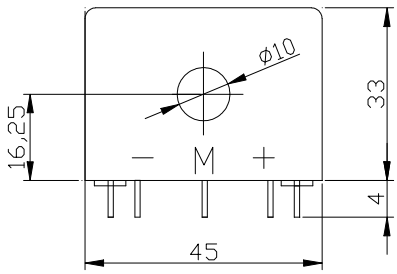
I_N = 100A

Specifications: Closed loop Hall current sensor, Nominal current 100A RMS for measuring of currents: AC, DC, pulsed…

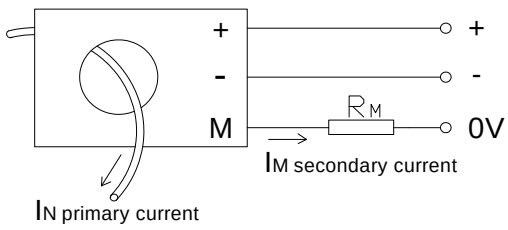
	Type	CHB-100P	
I_N	Nominal current (RMS)	100A	
I_P	Measuring range (I_{P-P})	0…±150A	
R_M	Measuring resistance	R_M min	R_M max
	（Vc =±15V）	40Ω (at 50A or 100A)	100Ω (at 50A); 85Ω (at 100A)
I_M	Output current	Nominal output current 100mA, for primary nominal current I_N =100A	
X	Accuracy (Ta =+25℃)	I_N±0.8%	
K_N	Turns ratio	1:1000	
Vc	Supply voltage	±12V…15V (±5%)	
Vi	Isolation voltage	Between primary and secondary circuit: 3KV RMS/50Hz/1min.	
Ioff	Offset current (Ta =+25℃)	±0.3mA max, for primary current I_N=0	
Td	Temperature drift	I_M of 0.02%/℃ (-25℃…+85℃)	
L	Linearity	< 0.1%	
Tr	Response time	< 1μS	
	di/dt	> 50A/μS	
f	Frequency bandwidth	0…100KHz	
Ta	Operating temperature	-25℃…+85℃	
Ts	Storage temperature	-40℃…+90℃	
Ic	Current consumption	10mA+I_M (Output current)	
Rs	Secondary resistance	15Ω（Ta =+70℃）	
R_N	Primary resistance	-----	
W	Weight	70g	

Dimensions (mm):





Connection:



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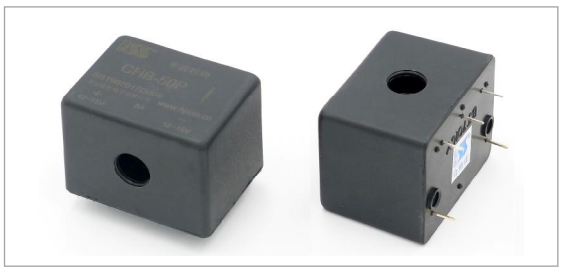

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