



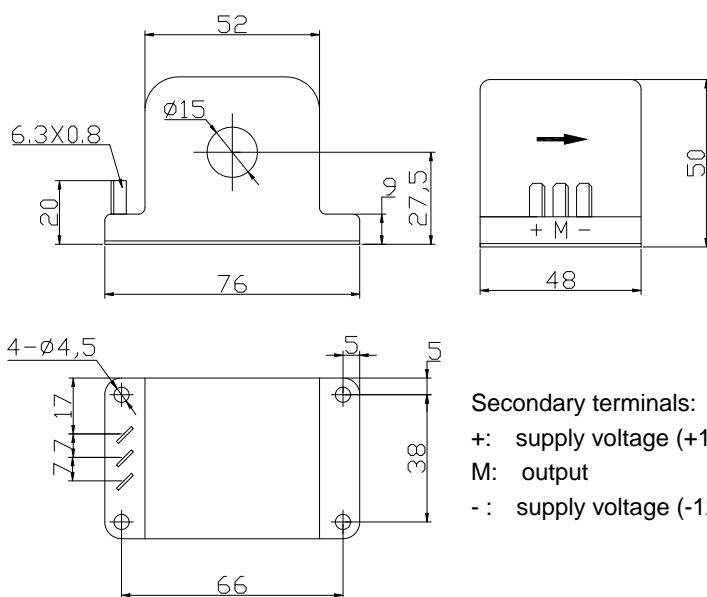
SENSOR Module CHB-100S

$I_N = 100A$

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

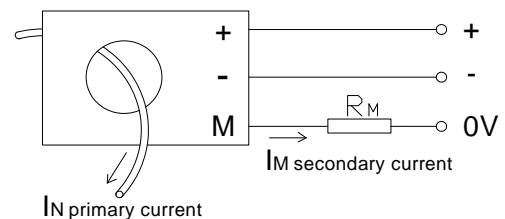
	Type	CHB-100S	
I_N	Nominal current (RMS)	100A	
I_P	Measuring range (I_{P-P})	0...±200A	
R_M	Measuring resistance	R_M min	R_M max
		($V_c = \pm 12V$)	0Ω (at 100A or 200A) 75Ω (at 100A); 25Ω (at 200A)
		($V_c = \pm 18V$)	30Ω (at 100A or 200A) 135Ω (at 100A); 55Ω (at 200A)
I_M	Output current	Nominal output current 100mA, for primary nominal current $I_N = 100A$	
X	Accuracy ($T_a = +25^\circ C$)	$I_N \pm 0.8\%$	
K_N	Turns ratio	1:1000	
V_c	Supply voltage	$\pm 12 \dots 18V (\pm 5\%)$	
V_i	Isolation voltage	Between primary and secondary circuit: 6KV RMS/50Hz/1min.	
I_{off}	Offset current ($T_a = +25^\circ C$)	$\pm 0.3mA$ max, for primary current $I_N = 0$	
Td	Temperature drift	I_M of 0.02%/°C (-25°C...+85°C)	
L	Linearity	< 0.1%	
Tr	Response time	< 1μS	
		$di/dt > 50A/\mu S$	
f	Frequency bandwidth	0...100KHz	
T_a	Operating temperature	-25°C...+85°C	
T_s	Storage temperature	-40°C...+90°C	
I_c	Current consumption	28mA+ I_M (Output current)	
R_s	Secondary resistance	25Ω ($T_a = +70^\circ C$)	
R_N	Primary resistance	-----	
W	Weight	150g	

Dimensions (mm):



Secondary terminals:
 +: supply voltage (+12...18V)
 M: output
 -: supply voltage (-12...18V)

Connection:



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



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Output I_M is positive, when the primary current flows in the direction of the arrow.



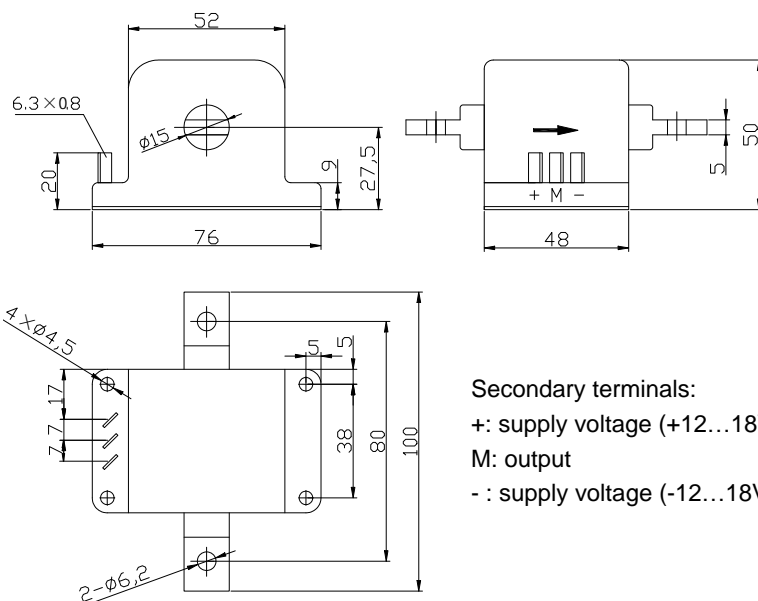
SENSOR Module CHB-100T

I_N = 100A

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

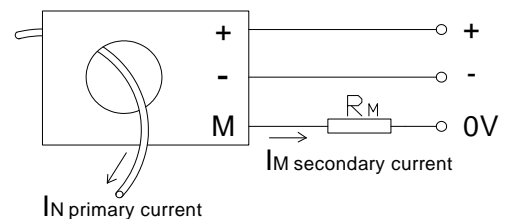
	Type	CHB-100T	
I _N	Nominal current (RMS)	100A	
I _P	Measuring range (I _{P-P})	0...±200A	
R _M	Measuring resistance	R _M min	R _M max
		(V _c = ±12V)	0Ω (at 100A or 200A) 75Ω (at 100A); 25Ω (at 200A)
		(V _c = ±18V)	30Ω (at 100A or 200A) 135Ω (at 100A); 55Ω (at 200A)
I _M	Output current	Nominal output current 100mA, for primary nominal current I _N = 100A	
X	Accuracy (T _a = +25°C)	I _N ± 0.8%	
K _N	Turns ratio	1:1000	
V _c	Supply voltage	±12...18V (±5%)	
V _i	Isolation voltage	Between primary and secondary circuit: 6KV RMS/50Hz/1min.	
I _{off}	Offset current (T _a = +25°C)	±0.3mA max, for primary current I _N = 0	
T _d	Temperature drift	I _M of 0.02%/°C (-25°C...+85°C)	
L	Linearity	< 0.1%	
T _r	Response time	< 1μS	
		di/dt > 50A/μS	
f	Frequency bandwidth	0...100KHz	
T _a	Operating temperature	-25°C...+85°C	
T _s	Storage temperature	-40°C...+90°C	
I _c	Current consumption	28mA + I _M (Output current)	
R _s	Secondary resistance	25Ω (T _a = +70°C)	
R _N	Primary resistance	-----	
W	Weight	270g	

Dimensions (mm):



Secondary terminals:
 +: supply voltage (+12...18V)
 M: output
 -: supply voltage (-12...18V)

Connection:



Output I_M is positive, when the primary current flows in the direction of the arrow.

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 →

