



SENSOR Module CHB-300SG

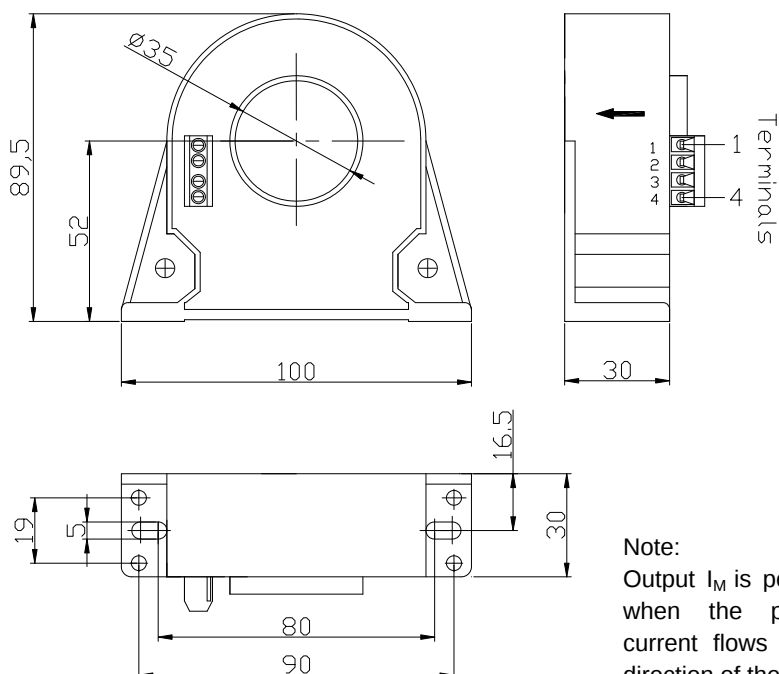
$I_N = 300A$

Specifications:

Closed loop Hall current sensor, Nominal current 300A RMS for measuring of currents: AC, DC, pulsed...

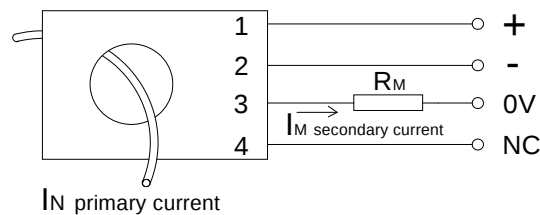
	Type	CHB-300SG	
I_N	Nominal current (RMS)	300A	
I_P	Measuring range	0...±500A	
R_M	Measuring resistance	R_M min	R_M max
	($V_c = \pm 12V$)	0 Ω (at 300A or 500A)	30 Ω (at 300A); 5 Ω (at 500A)
	($V_c = \pm 18V$)	20 Ω (at 300A or 500A)	75 Ω (at 300A); 25 Ω (at 500A)
I_M	Output current	Nominal output current 150mA, for primary nominal current $I_N = 300A$	
X	Accuracy ($T_a = +25^\circ C$)	$I_N \pm 0.5\%$	
K_N	Turns ratio	1:2000	
V_c	Supply voltage	$\pm 12 \dots 18V (\pm 5\%)$	
I_c	Current consumption	28mA + I_M	
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 $I_N = 0$	
T_d	Temperature drift	$\pm 0.3mA$ Typical; $\pm 0.5mA$ Max ($-25^\circ C \dots +70^\circ C$)	
L	Linearity	< 0.1%	
T_r	Response time	< 1 μS	
	di/dt	> 50A/ μS	
f	Frequency bandwidth	0...100KHz	
T_a	Operating temperature	$-25^\circ C \dots +70^\circ C$	
T_s	Storage temperature	$-40^\circ C \dots +100^\circ C$	
R_s	Secondary resistance	35 Ω ($T_a = +70^\circ C$)	
	Primary resistance	-----	
W	Weight	330g	

Dimensions (mm):



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

Connection:



Secondary terminals:

Terminal 1: supply voltage +12...18V

Terminal 2: supply voltage -12...18V

Terminal 3: output (M)

Terminal 4: non connection NC ($\perp$)





SENSOR Module CHB-500SG

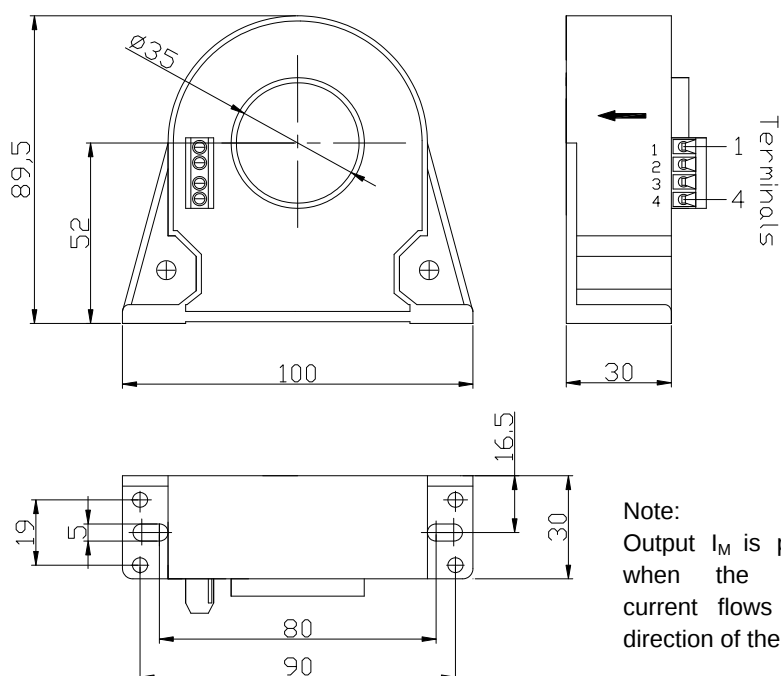
$I_N = 500A$

Specifications:

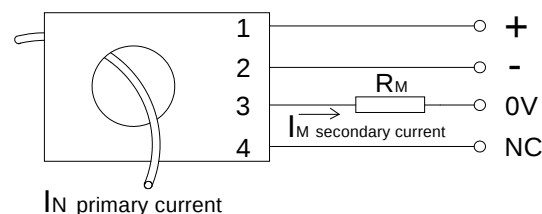
Closed loop Hall current sensor, Nominal current 500A RMS for measuring of currents: AC, DC, pulsed...

	Type	CHB-500SG	
I_N	Nominal current	500A (RMS)	
I_P	Measuring range	0...±750A	
R_M	Measuring resistance	R_M min	R_M max
	($V_c = \pm 12V$)	0Ω (at 500A or 750A)	30Ω (at 500A); 5Ω (at 750A)
	($V_c = \pm 18V$)	20Ω (at 500A or 750A)	75Ω (at 500A); 25Ω (at 750A)
I_M	Output current	Nominal output current 100mA, for primary nominal current $I_N = 500A$	
X	Accuracy ($T_a = +25^\circ C$)	$I_N \pm 0.5\%$	
K_N	Turns ratio	1:5000	
V_c	Supply voltage	$\pm 12 \dots 18V (\pm 5\%)$	
I_c	Current consumption	28mA + I_M	
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 $I_N = 0$	
T_d	Temperature drift	$\pm 0.3mA$ Typical; $\pm 0.5mA$ Max ($0^\circ C \dots +70^\circ C$)	
L	Linearity	< 0.1%	
T_r	Response time	< 1μS	
	di/dt	> 50A/μS	
f	Frequency bandwidth	0...100KHz	
T_a	Operating temperature	$0^\circ C \dots +70^\circ C$	
T_s	Storage temperature	$-40^\circ C \dots +100^\circ C$	
R_s	Secondary resistance	80Ω ($T_a = +70^\circ C$)	
	Primary resistance	-----	
W	Weight	330g	

Dimensions (mm):



Connection:



Secondary terminals:

Terminal 1: supply voltage +12...18V

Terminal 2: supply voltage -12...18V

Terminal 3: output (M)

Terminal 4: non connection NC (⊥)

