



# SENSOR Module CHB-200S

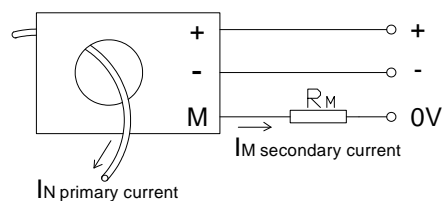
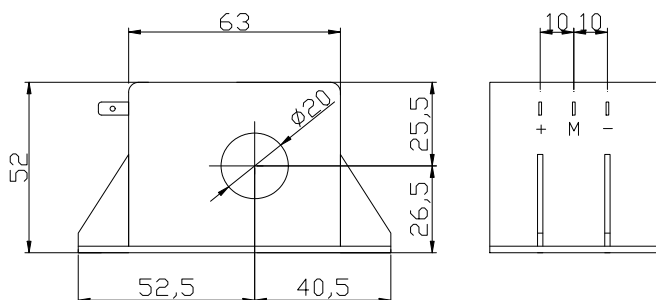
$I_N = 200A$

**Specifications:** Closed loop Hall current sensor, Nominal current 200A RMS for measuring of currents: AC, DC, pulsed...

	Type	CHB-200S	
$I_N$	Nominal current (RMS)	200A	
$I_P$	Measuring range ( $I_{P-P}$ )	0...±300A	
$R_M$	Measuring resistance ( $V_C = \pm 12V$ )	$R_M$ min	$R_M$ max
		5Ω (at 200A or 300A)	30Ω (at 200A); 10Ω (at 300A)
		( $V_C = \pm 18V$ )	10Ω (at 200A or 300A)
$I_M$	Output current	Nominal output current 100mA, for primary nominal current $I_N = 200A$	
X	Accuracy ( $T_a = +25^\circ C$ )	$I_N \pm 0.5\%$	
$K_N$	Turns ratio	1:2000	
$V_C$	Supply voltage	$\pm 12 \dots 18V (\pm 5\%)$	
$V_i$	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	$I_M$ 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	35Ω ( $T_a = +70^\circ C$ )	
$R_N$	Primary resistance	-----	
W	Weight	240g	

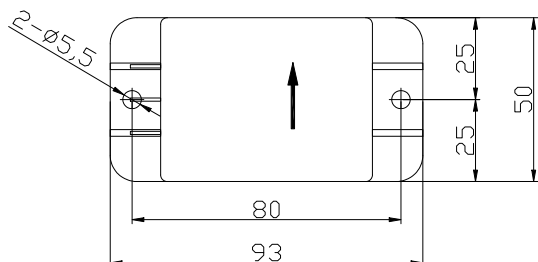
## Dimensions (mm):

## Connection:



Secondary terminals:

- + : supply voltage +12...18V
- : supply voltage - 12...18V
- M : output



Connectors  
3 pieces  
FD1.25-250

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 →





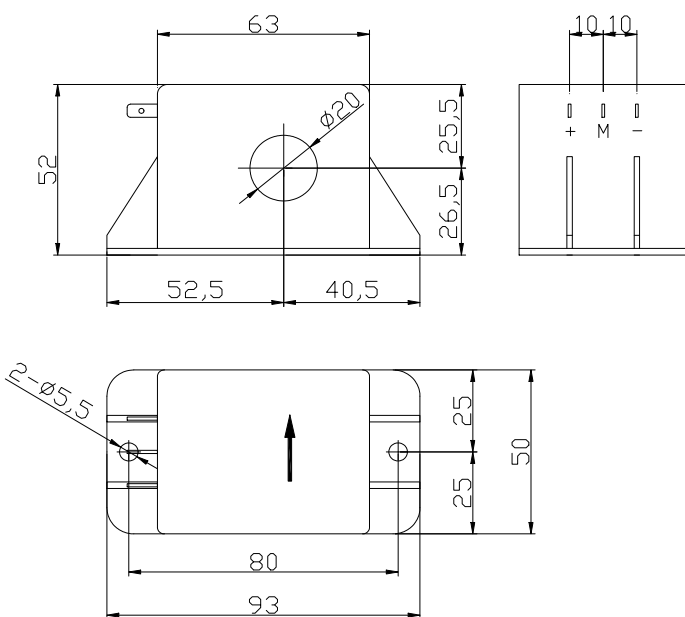
# SENSOR Module CHB-300S

## $I_N = 300A$

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

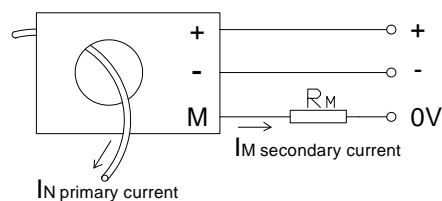
	Type	CHB-300S	
$I_N$	Nominal current (RMS)	300A	
$I_P$	Measuring range ( $I_{P-P}$ )	0...±500A	
$R_M$	Measuring resistance	$R_M$ min	$R_M$ max
		( $V_c = \pm 12V$ )	5Ω (at 300A or 450A)      30Ω (at 300A); 10Ω (at 450A)
		( $V_c = \pm 18V$ )	10Ω (at 300A or 450A)      50Ω (at 300A); 20Ω (at 450A)
$I_M$	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	$\pm 12...18V (\pm 5\%)$	
$V_i$	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 $I_N = 0$	
$T_d$	Temperature drift	$I_M$ of 0.01%/°C (-25°C...+85°C)	
L	Linearity	< 0.1%	
$T_r$	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	35Ω ( $T_a = +70^\circ C$ )	
$R_N$	Primary resistance	-----	
W	Weight	240g	

### Dimensions (mm):



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

### Connection:



Secondary terminals:

- +: supply voltage +12...18V
- : supply voltage - 12...18V
- M: output



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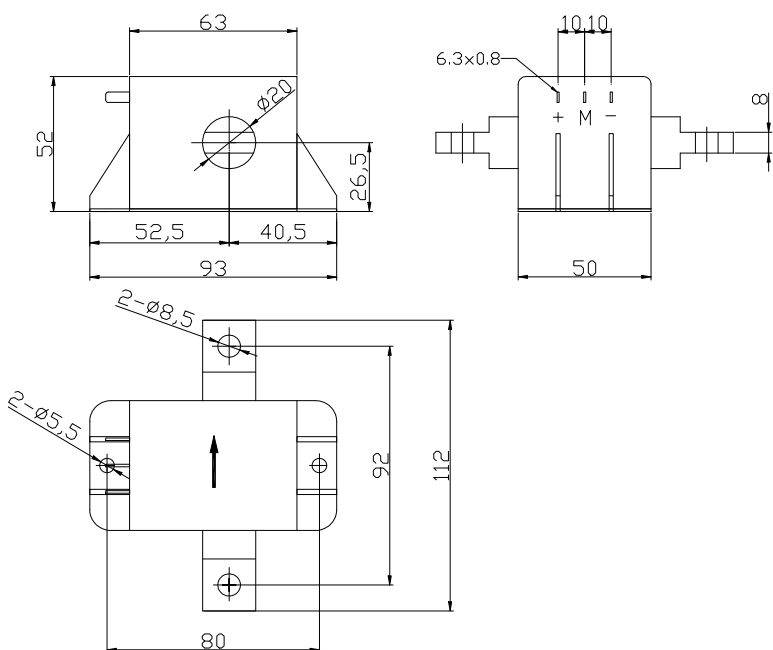
# SENSOR Module CHB-200T

$I_N = 200A$

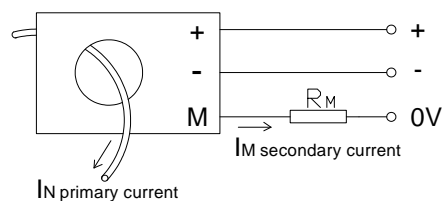
**Specifications:** Closed loop Hall current sensor, Nominal current 200A RMS for measuring of currents: AC, DC, pulsed...

	Type	CHB-200T	
$I_N$	Nominal current (RMS)	200A	
$I_P$	Measuring range ( $I_{P-P}$ )	0...±300A	
$R_M$	Measuring resistance	$R_M$ min	$R_M$ max
		( $V_c = \pm 12V$ )	5Ω (at 200A or 300A)      30Ω (at 200A); 10Ω (at 300A)
		( $V_c = \pm 18V$ )	10Ω (at 200A or 300A)      50Ω (at 200A); 20Ω (at 300A)
$I_M$	Output current	Nominal output current 100mA, for primary nominal current $I_N = 200A$	
X	Accuracy ( $T_a = +25^\circ C$ )	$I_N \pm 0.5\%$	
$K_N$	Turns ratio	1:2000	
$V_c$	Supply voltage	$\pm 12...18V (\pm 5\%)$	
$V_i$	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 $I_N = 0$	
$T_d$	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	35Ω ( $T_a = +70^\circ C$ )	
$R_N$	Primary resistance	-----	
W	Weight	485g	

## Dimensions (mm):

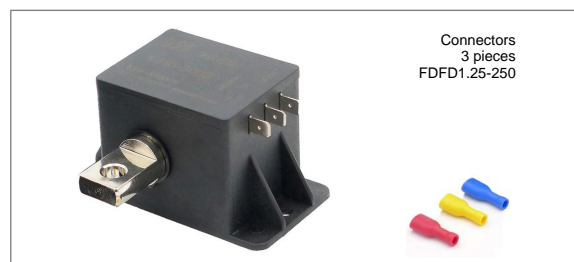


## Connection:



Secondary terminals:

- +: supply voltage +12...18V
- : supply voltage - 12...18V
- M: output



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

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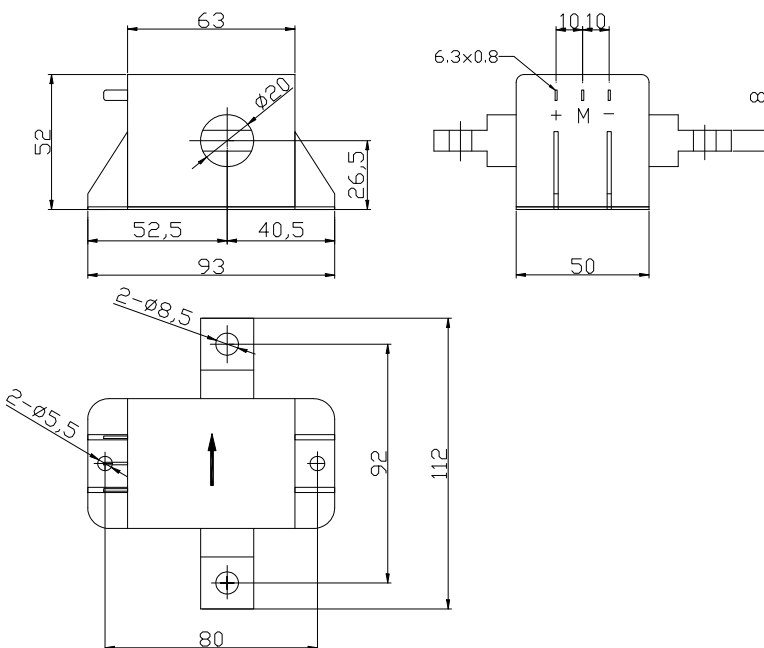
# SENSOR Module CHB-300T

$I_N = 300A$

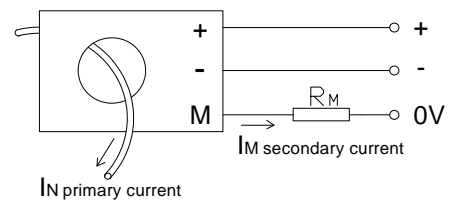
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$I_P$	Measuring range ( $I_{P-P}$ )	0...±500A	
$R_M$	Measuring resistance	$R_M$ min	$R_M$ max
		( $V_c = \pm 12V$ )	5Ω (at 300A or 450A)      30Ω (at 300A); 10Ω (at 450A)
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$I_M$	Output current	Nominal 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	
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$T_d$	Temperature drift	$I_M$ of 0.01%/°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	
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