



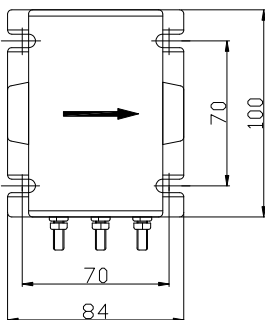
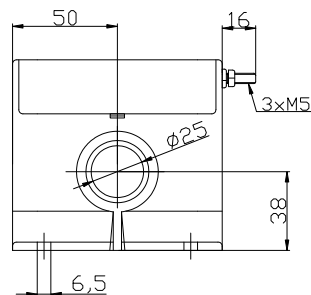
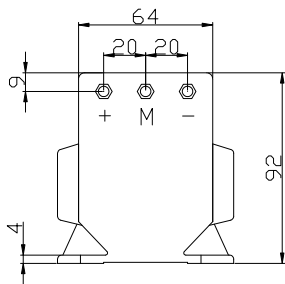
# SENSOR Module CHB-500S

$I_N = 500A$

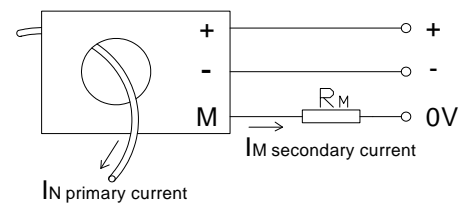
**Specifications:** Closed loop Hall current sensor, Nominal current 500A RMS for measuring of currents: AC, DC, pulsed...

	Type	CHB-500S	
$I_N$	Nominal current (RMS)	500A (RMS)	
$I_P$	Measuring range ( $I_{P-P}$ )	0...±1000A	
$R_M$	Measuring resistance	$R_M$ min	$R_M$ max
		( $V_c = \pm 12V$ )	40Ω (at 500A)
		( $V_c = \pm 24V$ )	75Ω (at 500A); 20Ω (at 1000A)
$I_M$	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	$\pm 15...24V (\pm 5\%)$	
$V_i$	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	
		$di/dt > 50A/\mu S$	
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	35mA+ $I_M$ (Output current)	
$R_s$	Secondary resistance	80Ω ( $T_a = +70^\circ C$ )	
$R_N$	Primary resistance	-----	
W	Weight	500g	

## Dimensions (mm):



## Connection:



Secondary terminals:

Terminal +: supply voltage +15...24V

Terminal -: supply voltage -15...24V

Terminal M: output



- Output  $I_M$  is positive when the primary current flows in the direction of the arrow.
- Primary current is input by a  $\varnothing 25mm$  hole.

**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 →





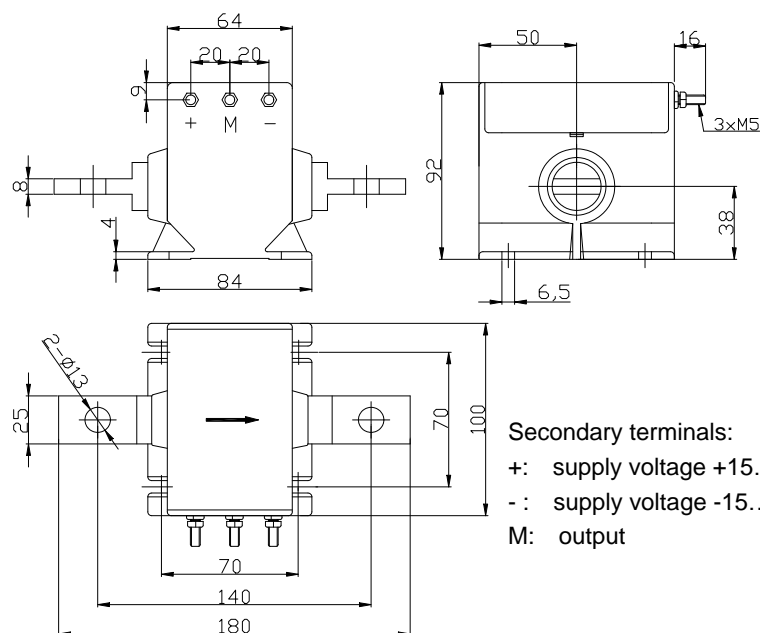
# SENSOR Module CHB-500T

**$I_N = 500A$**

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

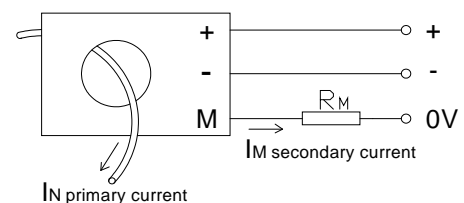
	Type	CHB-500T	
$I_N$	Nominal current (RMS)	500A (RMS)	
$I_P$	Measuring range ( $I_{P-P}$ )	0...±1000A	
$R_M$	Measuring resistance	$R_M$ min	$R_M$ max
		( $V_c = \pm 12V$ )	0Ω (at 500A or 1000A) / 40Ω (at 500A)
		( $V_c = \pm 24V$ )	7Ω (at 500A or 1000A) / 75Ω (at 500A); 20Ω (at 1000A)
$I_M$	Output current	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	$\pm 15...24V (\pm 5\%)$	
$V_i$	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	35mA+ $I_M$ (Output current)	
$R_s$	Secondary resistance	80Ω ( $T_a = +70^\circ C$ )	
$R_N$	Primary resistance	-----	
W	Weight	1170g	

## Dimensions (mm):



Secondary terminals:  
 +: supply voltage +15...24V  
 -: supply voltage -15...24V  
 M: output

## Connection:



- Output  $I_M$  is positive when the primary current flows in the direction of the arrow.
- Primary current is input by a bus bar.

**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 →

