



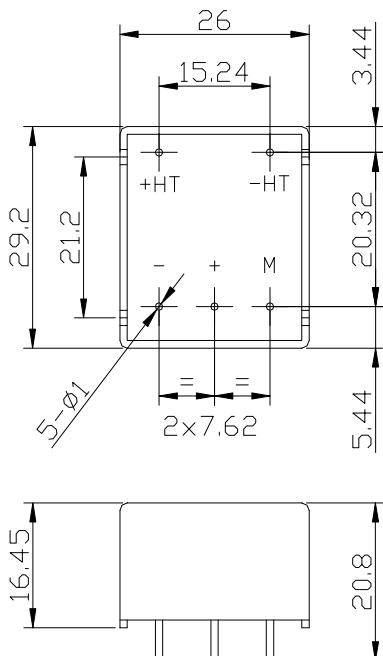
SENSOR Module CHB-25NP/SP3~4

$I_N=0.25\ldots0.5A$

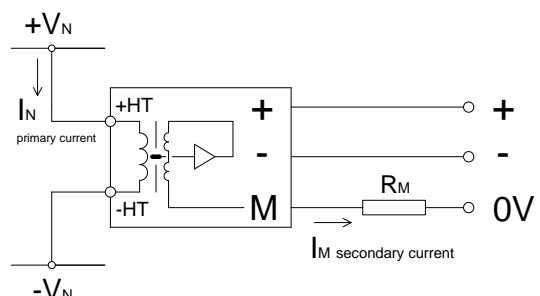
Specifications: Closed loop Hall current sensor, Nominal current 0.25...0.5A RMS for measuring of currents: AC, DC, pulsed

	Type	CHB-25NP/SP3	CHB-25NP/SP4
I_N	Nominal current (RMS)	0.25A	0.5A
I_P	Measuring range (I_{P-P})	0...±0.36A	0...±0.72A
I_M	Output current	25mA for $I_N = 0.25A$	25mA for $I_N = 0.5A$
K_N	Turns ratio	100:1000	50:1000
R_M	Measuring resistance ($V_c = \pm 15V$)	R_M min 100Ω	R_M max 190Ω (at primary nominal current I_N)
X	Accuracy ($T_a = +25^\circ C$)		$I_N \pm 0.8\%$
V_c	Supply voltage		±15V (±5%)
Vi	Isolation voltage	Between primary and secondary circuit: 2.5KV 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 0.05%/°C (-25°C...+85°C)	
L	Linearity	0.1%	
Tr	Response time	10μS	
	di/dt	
f	Frequency bandwidth	0...100KHz	
Ic	Current consumption	10mA+ I_M (Output current)	
Ta	Operating temperature	-25°C...+85°C	
Ts	Storage temperature	-40°C...+90°C	
Rs	Secondary resistance	110Ω ($T_a = +70^\circ C$)	
Rn	Primary resistance	<0.5Ω	
W	Weight	18g	

Dimensions (mm):



Connection:

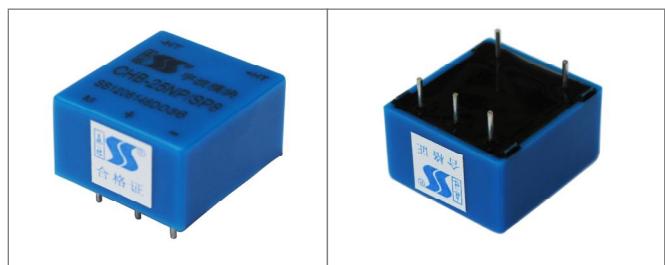


Primary terminals:

- +HT: input current plus
- HT: input current minus

Secondary terminals:

- +: supply voltage (+15V)
- M: output
- : supply voltage (-15V)



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.

1. Output I_M is positive, when the primary current I_N flows in the direction from pin +HT to pin -HT. 2. Mounting: PCB





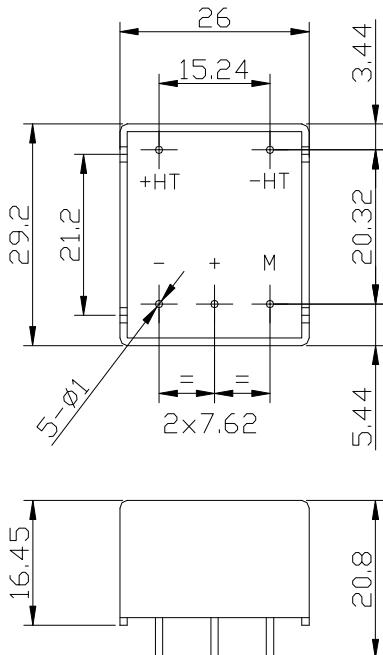
SENSOR Module CHB-25NP/SP5~9

$I_N = 1 \dots 5A$

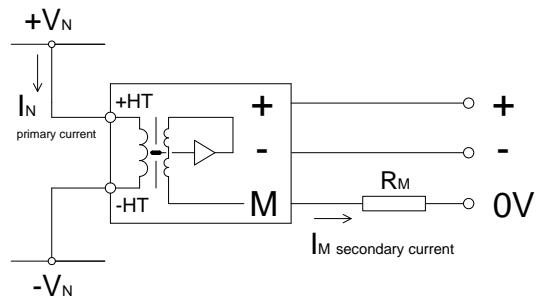
Specifications: Closed loop Hall current sensor, Nominal current 1...5A RMS for measuring of currents: AC, DC, pulsed...

	Type	CHB-25NP/SP5	CHB-25NP/SP6	CHB-25NP/SP7	CHB-25NP/SP8	CHB-25NP/SP9
I_N	Nominal current (RMS)	1.0A	1.5A	2.0A	2.5A	5A
I_P	Measuring range (I_{P-P})	0...±1.5A	0...±2.2A	0...±3.0A	0...±3.6A	0...±6A
I_M	Output current	25mA for $I_N = 1.0A$	24mA for $I_N = 1.5A$	24mA for $I_N = 2.9A$	25mA for $I_N = 2.5A$	25mA for $I_N = 5A$
K_N	Turns ratio	25:1000	16:1000	12:1000	10:1000	5:1000
R_M	Measuring resistance ($V_c = \pm 15V$)	R_M min 100Ω			R_M max 190Ω (at primary nominal current I_N)	
X	Accuracy ($T_a = +25^\circ C$)			$I_N \pm 0.8\%$		
V_c	Supply voltage			$\pm 15V (\pm 5\%)$		
Vi	Isolation voltage			Between primary and secondary circuit: 2.5KV RMS/50Hz/1min.		
I_{off}	Offset current			±0.3mA max, for primary current $I_N=0$ ($T_a = +25^\circ C$)		
T_d	Temperature drift			I_M of 0.05%/°C (-25°C...+85°C)		
L	Linearity			0.1%		
Tr	Response time			10μS		
	di/dt				
f	Frequency bandwidth			0...100KHz		
Ic	Current consumption			10mA+ I_M (Output current)		
Ta	Operating temperature			-25°C...+85°C		
Ts	Storage temperature			-40°C...+90°C		
Rs	Secondary resistance			110Ω ($T_a = +70^\circ C$)		
Rn	Primary resistance			<0.02Ω		
W	Weight			18g		

Dimensions (mm):



Connection:



Primary terminals:

- +HT: input current plus
- HT: input current minus

Secondary terminals:

- +: supply voltage (+15V)
- M: output
- : supply voltage (-15V)



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.



1. Output I_M is positive, when the primary current I_N flows in the direction from pin +HT to pin -HT. 2. Mounting: PCB