SENSOR Module CHB-20L/SP*

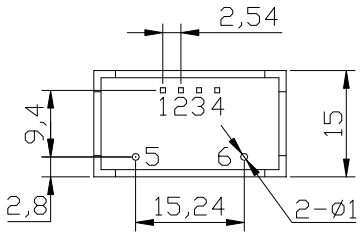
I_N=0.05…5A

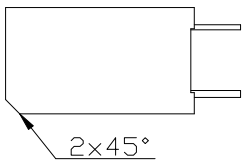
Specifications:

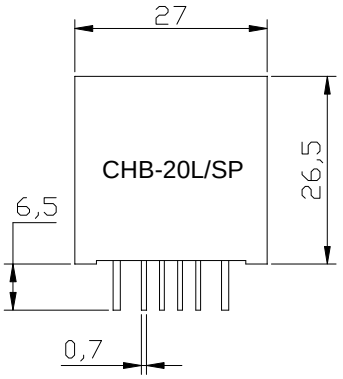
Closed loop Hall current sensor, Nominal current 0.05…5A RMS for measuring of currents: AC, DC, pulsed

	Type	CHB-20L /SP1	CHB-20L /SP2	CHB-20L /SP3	CHB-20L /SP4	CHB-20L /SP5	CHB-20L /SP6	CHB-20L /SP7	CHB-20L /SP8	CHB-20L /SP9
I_N	Nominal current (RMS)	0.05A	0.1A	0.25A	0.5A	1A	1.5A	2A	2.5A	5A
I_P	Measuring range (I_{P-P})	0…±0.06A	0…±0.12A	0…±0.3A	0…±0.6A	0…±1.2A	0…±1.8A	0…±2.4A	0…±3A	0…±6A
KN	Turns ratio	400：1000	200：1000	80：1000	40：1000	20：1000	14：1000	10：1000	8：1000	4：1000
R_M	Measuring resistance	R_M min								
	(Vc =±12…15V)	……								
V_M	Output voltage	Nominal output voltage 0…5V, for primary nominal current 0…I_N								
X	Accuracy	I_N±1.0% (Ta =+25℃)								
Vc	Supply voltage	±12…15V (±5%)								
Vi	Isolation voltage	Between primary and secondary circuit: 2.5KV RMS/50Hz/1min.								
Voff	Offset voltage	≤±100mV max, for primary current I_N=0 (Ta =+25℃)								
Td	Temperature drift	V_M of 0.05%/℃ (-25℃…+85℃)								
L	Linearity	0.1%								
Tr	Response time	40μS								
	di/dt	……								
f	Frequency bandwidth	0…20KHz								
Ta	Operating temperature	-25℃…+85℃								
Ts	Storage temperature	-40℃…+90℃								
Ic	Current consumption	10mA+I_M (Measuring current)								
Rs	Secondary resistance	500Ω（Ta =+70℃）								
R_N	Primary resistance	2Ω（Ta =+70℃）								
W	Weight	18g								

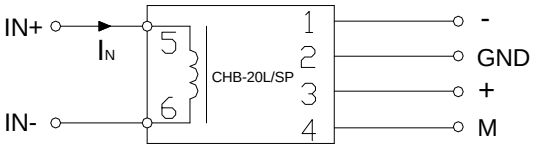
Dimensions (mm):







Connection:



Terminals connection:
Secondary terminals:
1: supply voltage -12…15V
2: GND (⊥、0V)
3: supply voltage +12…15V
4: output (M)

Primary terminals:
5: input current plus (IN+)
6: input current minus (IN-)

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.

Remarks:
1. Output V_M is positive when the primary current flows in the direction from pins 5 to 6.
2. Mounting: PCB

北京森社电子有限公司 Beijing SENSOR Electronics Co., Ltd. e-mail: sales@bjsse.com.cn tel.: 010-51667721, 85367366 Ver. 21.01 www.bjsse.com.cn
No.7 Shuang Qiao West, Chao Yang District, Beijing, China （100121）