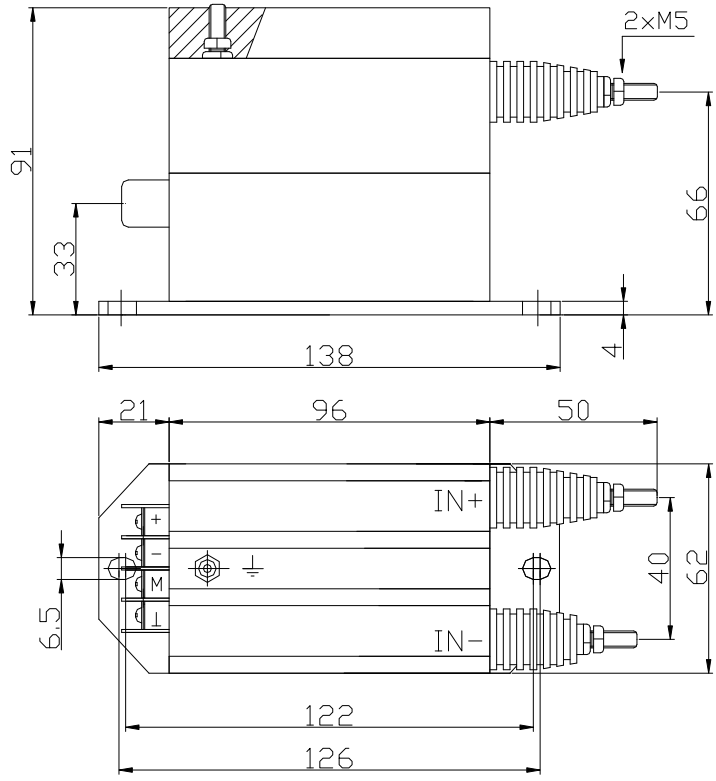
SENSOR Module CHV-100/* V_N = 800…2000V

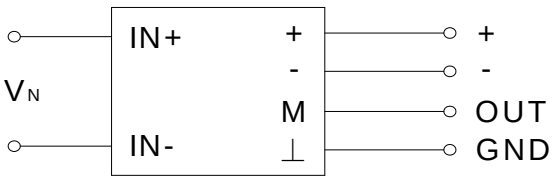
Specifications: Closed loop Hall voltage sensor, Nominal voltage 800…2000V RMS for measuring of voltage: AC, DC, pulsed

	Type	CHV-100/800	CHV-100/1000	CHV-100/1500	CHV-100/2000
V_N	Nominal voltage (RMS)	800V	1000V	1500V	2000V
V_P	Measuring range	0…±1200V	0…±1500V	0…±2250V	0…±3000V
R_M	Measuring resistance	R_M min			
	（Vc =±12…15V）	>10KΩ			
V_M	Output voltage	Nominal output voltage 5V, for primary nominal voltage V_N			
X	Accuracy	V_N±0.5% (Ta =+25℃)			
K_N	Turns ratio	10000:2000			
Vc	Supply voltage	±12V…15V (±5%)			
Ic	Current consumption	10mA+I_M			
Vi	Isolation voltage	Between primary and secondary circuit: 10KV RMS/50Hz/1min.			
Voff	Offset voltage	±30mV max, for primary voltage V_N=0 (Ta =+25℃)			
Td	Temperature drift	<±30mV Typical; ±50mV Max (-25℃…+70℃)			
L	Linearity	< 0.1%			
Tr	Response time	40…200μS			
f	Frequency bandwidth	0…20KHz			
Ta	Operating temperature	-25℃…+70℃			
Ts	Storage temperature	-40℃…+85℃			
Rs	Secondary resistance	60Ω（Ta =+70℃）			
	Primary resistance	1.8KΩ+R1(Primary resistor)			
W	Weight	650g			

Dimensions (mm):

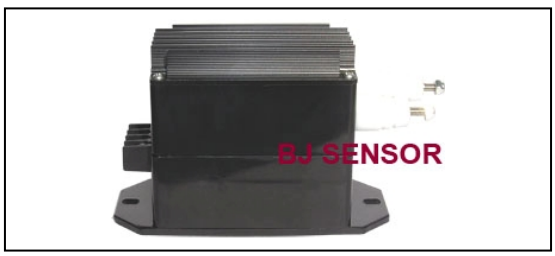


Connection:



Primary terminals:
Terminal IN+: input high voltage
Terminal IN-: input low voltage

Secondary terminals:
Terminal +: supply voltage +12V…15V
Terminal -: supply voltage -12V…15V
Terminal M: output
Terminal ⊥: ground (GND)



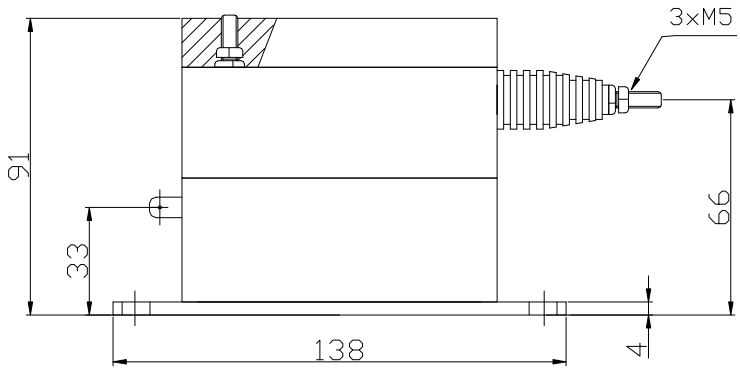
Beijing SENSOR Electronics Co.,Ltd.
No.7 ShuangQiao West, ChaoYang District, Beijing, China (100024)
e-mail: sales@bjsse.com.cn
http://www.bjsse.com.cn
Tel: +86-10-51667721
Fax: +86-10-51667521

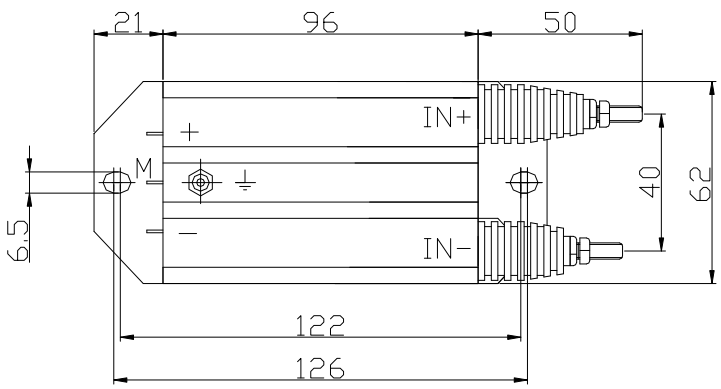
SENSOR Module CHV-100/*A V_N = 800…2000V

Specifications: Closed loop Hall voltage sensor, Nominal voltage 800…2000V RMS for measuring of voltage: AC, DC, pulsed

	Type	CHV-100/800A	CHV-100/1000A	CHV-100/1500A	CHV-100/2000A
V_N	Nominal voltage (RMS)	800V	1000V	1500V	2000V
V_P	Measuring range	0…±1200V	0…±1500V	0…±2250V	0…±3000V
R_M	Measuring resistance	R_M min		R_M max	
	（Vc =±12…15V）	0Ω		150Ω	
I_M	Output current	Nominal output current 25mA, for primary nominal voltage V_N			
X	Accuracy	V_N±0.5% (Ta =+25℃)			
K_N	Turns ratio	10000:2000			
Vc	Supply voltage	±12V…15V (±5%)			
Ic	Current consumption	10mA+I_M			
Vi	Isolation voltage	Between primary and secondary circuit: 10KV RMS/50Hz/1min.			
Ioff	Offset current	±0.3mA max, for primary voltage V_N=0 (Ta =+25℃)			
Td	Temperature drift	<±0.3mA Typical; ±0.5mA Max (-25℃…+70℃)			
L	Linearity	< 0.1%			
Tr	Response time	40…200μS			
f	Frequency bandwidth	0…20KHz			
Ta	Operating temperature	-25℃…+70℃			
Ts	Storage temperature	-25℃…+85℃			
Rs	Secondary resistance	60Ω（Ta =+70℃）			
	Primary resistance	1.8KΩ+R1(Primary resistor)			
W	Weight	650g			

Dimensions (mm):





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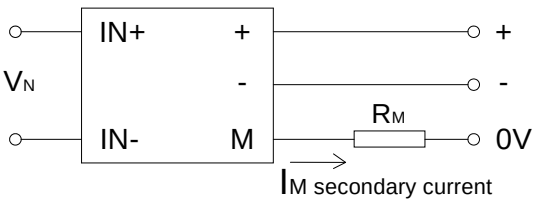
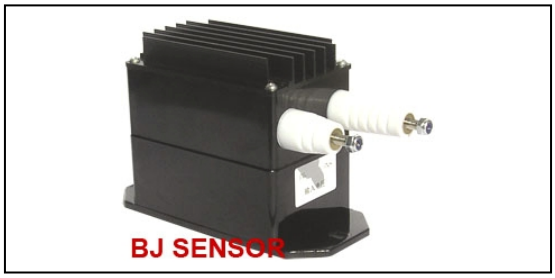


Primary terminals:
Terminal IN+: input high voltage
Terminal IN-: input low voltage

Secondary terminals:
Terminal +: supply voltage +12V…15V
Terminal -: supply voltage -12V…15V
Terminal M: output



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