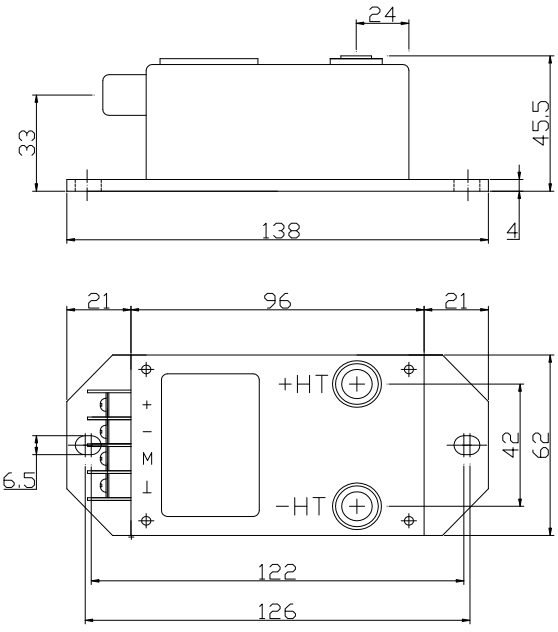
SENSOR Module CHV-100/*

V_N = 100…500V

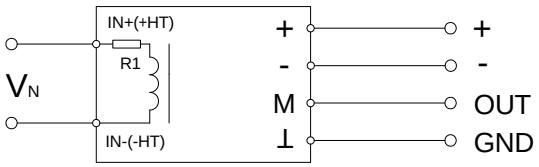
Specifications: Closed loop Hall voltage sensor, Nominal voltage 100…500V RMS for measuring of voltage: AC, DC, pulsed

	Type	CHV-100/100	CHV-100/200	CHV-100/300	CHV-100/500
V_N	Nominal voltage (RMS)	100V	200V	300V	500V
V_P	Measuring range (V_{P-P})	0…±150V	0…±300V	0…±450V	0…±750V
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			
KN	Turns ratio	20000:2000			
X	Accuracy	V_N±0.5% (Ta =+25℃)			
Vc	Supply voltage	±12…15V (±5%)			
Vi	Isolation voltage	Between primary and secondary circuit: 6KV RMS/50Hz/1min.			
Voff	Offset voltage	±30mV max, for primary voltage V_N=0 (Ta =+25℃)			
Td	Temperature drift	V_M of 0.05%/℃ (-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℃			
Ic	Current consumption	10mA+I_M (Measuring current)			
Rs	Secondary resistance	60Ω（Ta =+70℃）			
R_N	Primary resistance	1.8KΩ+R1 (Build in resistor)（Ta =+70℃）			
W	Weight	360g			

Dimensions (mm):



Connection:



Connection:

Primary terminals:

IN+: input positive voltage (+HT)

IN- : input negative voltage (-HT)

Secondary terminals:

+: supply voltage +12…15V

- : supply voltage - 12…15V

M: output

⊥: GND (0V)

*…Nominal voltage

Remarks

1. Output V_M is positive when a positive voltage V_N is applied on the terminal IN+.
2. The sensor is directly connected to the primary voltage V_N by the terminals IN+ and IN- (R1 is built into the sensor.).

-**The SENSOR Module** is a sensor of a solid-state component for the electronic measurement of current or voltage with a galvanic isolation between the primary and secondary circuits.

- Please contact us by We Chat for more information.

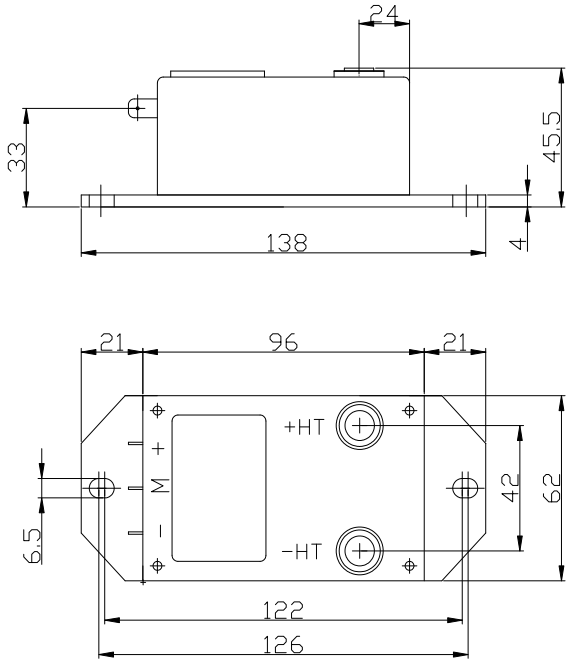
SENSOR Module CHV-100/*A

V_N = 100…500V

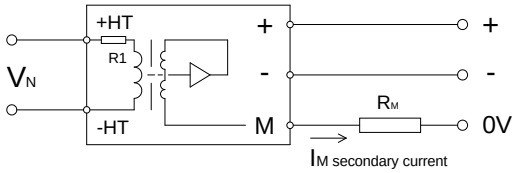
Specifications: Closed loop Hall voltage sensor, Nominal voltage 100…500V RMS for measuring of voltage: AC/DC/pulsed

	Type	CHV-100/100A	CHV-100/200A	CHV-100/300A	CHV-100/500A
V_N	Nominal voltage (RMS)	100V	200V	300V	500V
V_P	Measuring range (V_{P-P})	0…±150V	0…±300V	0…±450V	0…±750V
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			
KN	Turns ratio	20000:2000			
X	Accuracy	V_N±0.5% (Ta =+25℃)			
Vc	Supply voltage	±12…15V (±5%)			
Vi	Isolation voltage	Between primary and secondary circuit: 6KV RMS/50Hz/1min.			
Ioff	Offset current	±0.3mA max, for primary voltage V_N=0 (Ta =+25℃)			
Td	Temperature drift	I_M of 0.05%/℃ (-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℃			
Ic	Current consumption	10mA+I_M (Measuring current)			
Rs	Secondary resistance	60Ω（Ta =+70℃）			
R_N	Primary resistance	1.8KΩ+R1 (Build in resistor)（Ta =+70℃）			
W	Weight	360g			

Dimensions (mm):



Connection:



Connection:

Primary terminals:
+HT: input positive voltage
- HT: input negative voltage
*…Nominal voltage

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

1. Output I_M is positive when a positive voltage V_N is applied on the terminal +HT.
2. The sensor is directly connected to the primary voltage V_N by the terminals +HT and –HT (R1 is built into the sensor.).
3. A voltage output V_M is obtained by connecting a resistor R_M between M and 0V.

-**The SENSOR Module** is a sensor of a solid-state component for the electronic measurement of current or voltage with a galvanic isolation between the primary and secondary circuits.
- Please contact us by We Chat for more information.