



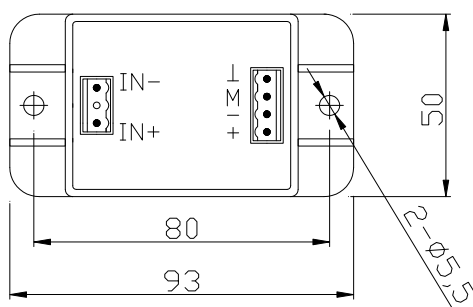
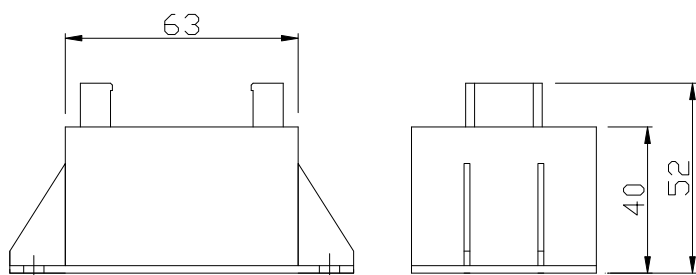
SENSOR Module CHV-*VD

$V_N = 30 \dots 600V$

Specifications: Closed loop Hall voltage sensor, Nominal voltage 30...600V RMS for measuring of voltage: AC, DC, pulsed

Type	CHV-30VD	CHV-50VD	CHV-100VD	CHV-300VD	CHV-600VD	
V_N	Nominal voltage (RMS)	30V	50V	100V	300V	600V
V_P	Measuring range ($V_{P,P}$)	0...±45V	0...±75V	0...±150V	0...±450V	0...±900V
R_M	Measuring resistance ($V_c = \pm 12 \dots 15V$)	R_M min				
V_M	Output voltage	Nominal output voltage 5V, for primary nominal voltage V_N				
KN	Turns ratio	2500:1000				
X	Accuracy ($T_a = +25^\circ C$)	$V_N \pm 1.0\%$				
V_c	Supply voltage	$\pm 12 \dots 15V (\pm 5\%)$				
V_i	Isolation voltage	Between primary and secondary circuit: 2.5KV RMS/50Hz/1min.				
V_{off}	Offset voltage	$\pm 30mV$ max, for primary voltage $V_N = 0$ ($T_a = +25^\circ C$)				
T_d	Temperature drift	V_M of 0.05%/°C (-25°C...+70°C)				
L	Linearity	0.1%				
T_r	Response time	40µS				
	di/dt				
f	Frequency bandwidth	0...20KHz				
T_a	Operating temperature	-25°C...+70°C				
T_s	Storage temperature	-40°C...+85°C				
I_c	Current consumption	35mA				
R_s	Secondary resistance	110Ω ($T_a = +70^\circ C$)				
R_N	Primary resistance	250Ω+R1 (Build in resistor) ($T_a = +70^\circ C$)				
W	Weight	90g				

Dimensions (mm):



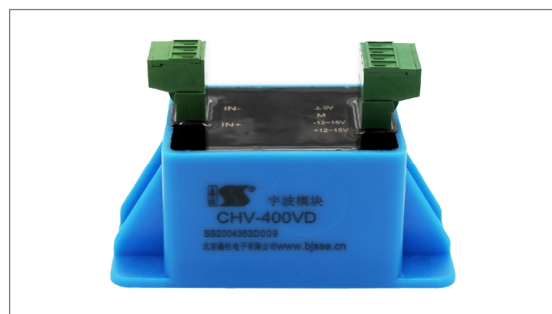
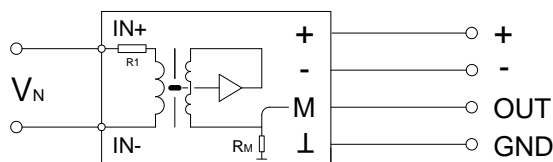
Connections:

IN+: input positive voltage
IN- : input negative voltage

+: supply voltage +12...15V
- : supply voltage -12...15V
M: output
⊥: GND (0V)

*...Nominal voltage

Connection:



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.

