

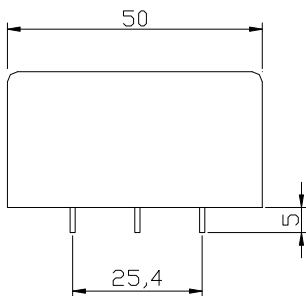
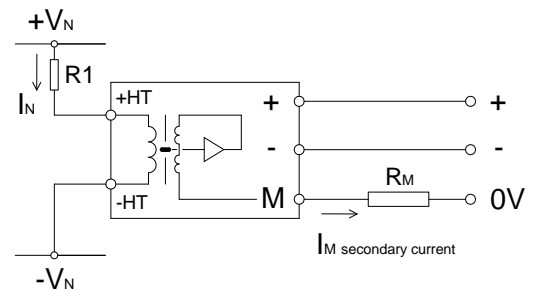
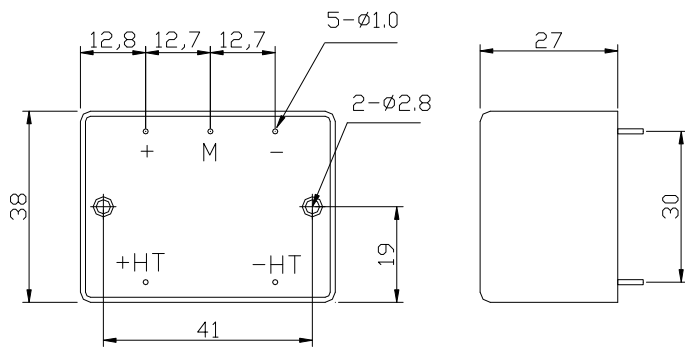


### Specifications: Closed loop Hall voltage sensor, Nominal current 10mA for measuring of voltages or currents: AC/DC/pulsed

	Type	CHV-50P	
$I_N$	Nominal current (RMS)	10mA	
$I_P$	Measuring range ( $I_{P-P}$ )	0...±20mA	
$R_M$	Measuring resistance ( $V_c = \pm 12...15\text{V}$ )	$R_M$ min	$R_M$ max
		0Ω (at 10mA or 20mA)	350Ω (at 10mA); 100Ω (at 20mA)
$I_M$	Output current	Nominal output current 50mA, for primary nominal current $I_N = 10\text{mA}$	
$K_N$	Turns ratio	5000:1000	
X	Accuracy	$I_N \pm 1.0\%$ ( $T_a = +25^\circ\text{C}$ )	
$V_c$	Supply voltage	$\pm 12...15\text{V}$ ( $\pm 5\%$ )	
$V_i$	Isolation voltage	Between primary and secondary circuit: 3KV RMS/50Hz/1min.	
$I_{off}$	Offset current	$\pm 0.3\text{mA}$ max, for primary current $I_N = 0$ ( $T_a = +25^\circ\text{C}$ )	
$T_d$	Temperature drift	$I_M$ of 0.05%/°C (-25°C...+70°C)	
L	Linearity	0.2%	
$T_r$	Response time	10...200μS	
	di/dt	.....	
f	Frequency bandwidth	0...50KHz	
$T_a$	Operating temperature	-25°C...+70°C	
$T_s$	Storage temperature	-40°C...+85°C	
$I_c$	Current consumption	10mA + $I_M$ (Output current)	
$R_s$	Secondary resistance	30Ω ( $T_a = +70^\circ\text{C}$ )	
$R_N$	Primary resistance	500Ω ( $T_a = +70^\circ\text{C}$ )	
W	Weight	90g	

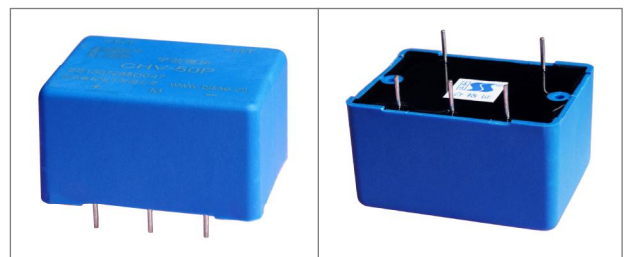
### Dimensions (mm):

### Connection:



Terminals connection:  
 Primary terminals:  
 +HT: input high voltage  
 -HT: input low voltage

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



Note: 1) Output  $I_M$  is positive, when the primary current  $I_N$  flows in the direction from pin +HT to pin -HT. 2) The resistance R1 must be connected, when the sensor is used to measure voltages. 3) Mounting: PCB

4) CHV-50P is recommended to measure 50...1000V AC, DC, pulsed voltages or lower currents.