



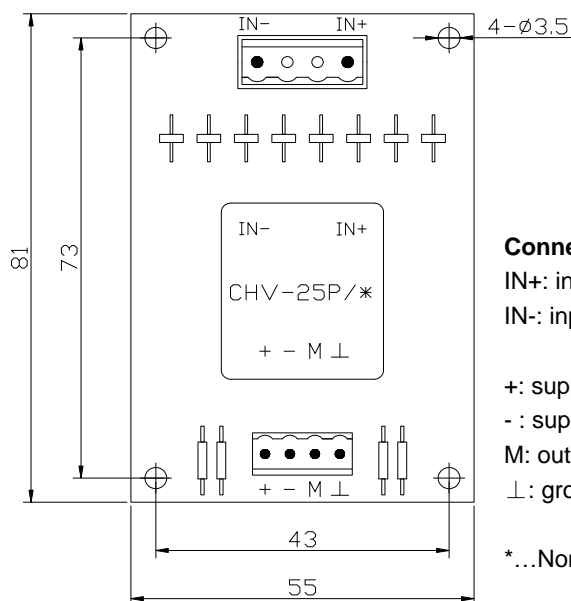
SENSOR Module CHV-25P/*

$V_N = 50 \dots 600V$

Specifications: Closed loop Hall voltage sensor, Nominal voltage 50...600V RMS for measuring of voltage: AC, DC, pulsed

Type	CHV-25P/50	CHV-25P/100	CHV-25P/200	CHV-25P/400	CHV-25P/500	CHV-25P/600
V_N	Nominal voltage (RMS)					
V_P	Measuring range(V_{P-P})					
R_M	Measuring resistance					
	$(V_c = \pm 12 \dots 15V)$					
V_M	Output voltage					
KN	Turns ratio					
X	Accuracy					
V_c	Supply voltage					
V_i	Isolation voltage					
V_{off}	Offset voltage					
T_d	Temperature drift					
L	Linearity					
T_r	Response time					
	di/dt					
f	Frequency bandwidth					
T_a	Operating temperature					
T_s	Storage temperature					
I_c	Current consumption					
R_s	Secondary resistance					
R_N	Primary resistance					
W	Weight					

Dimensions (mm):



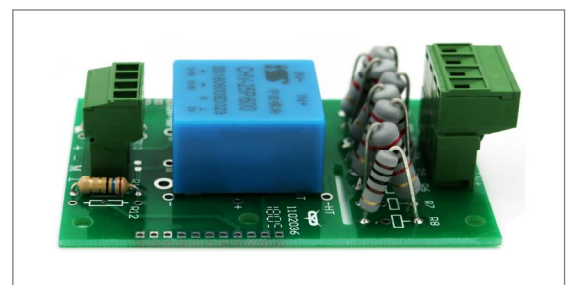
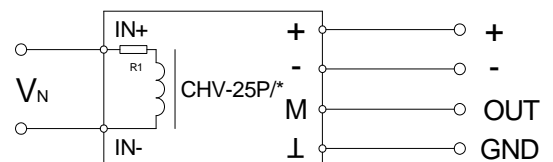
Connection:

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

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

*...Nominal voltage

Connection:



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.)

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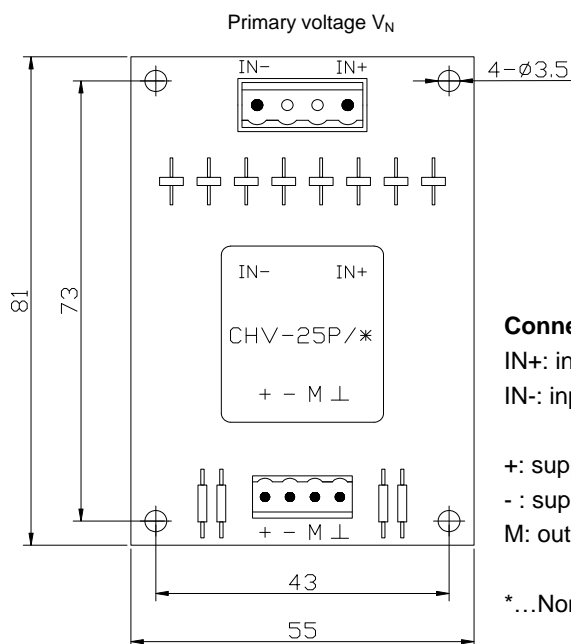
SENSOR Module CHV-25P/*A

$V_N = 50...600V$

Specifications: Closed loop Hall voltage sensor, Nominal voltage 50...600V RMS for measuring of voltage: AC, DC, pulsed

Type	CHV-25P/50A	CHV-25P/100A	CHV-25P/200A	CHV-25P/400A	CHV-25P/500A	CHV-25P/600A
V_N	Nominal voltage (RMS)					
V_P	Measuring range (V_{P-P})					
KN	Turns ratio					
R_M	Measuring resistance					
	$(V_c = \pm 12...15V)$					
I_M	Output current					
X	Accuracy					
V_c	Supply voltage					
V_i	Isolation voltage					
I_{off}	Offset current					
T_d	Temperature drift					
L	Linearity					
T_r	Response time					
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R_N	Primary resistance					
W	Weight					

Dimensions (mm):



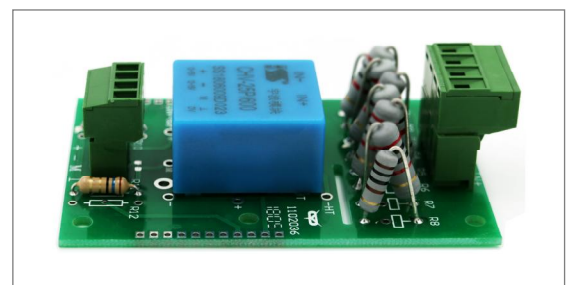
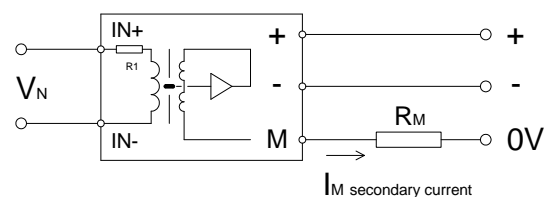
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IN+: input positive voltage
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+: supply voltage +12...15V
- : supply voltage -12...15V
M: output

*...Nominal voltage

Connection:



1. Output I_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- (R_1 is built into the sensor.)
3. A voltage output V_M is obtained by connecting a resistor R_M between M and 0V.

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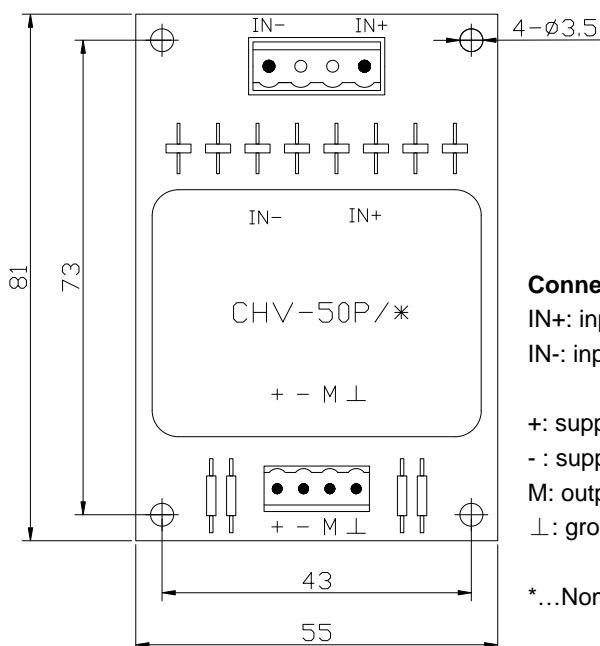
SENSOR Module CHV-50P/*

$V_N = 100 \dots 1000V$

Specifications: Closed loop Hall voltage sensor, Nominal voltage 100...1000V RMS for measuring of voltage: AC/DC/pulsed

Type	CHV-50P/100	CHV-50P/400	CHV-50P/800	CHV-50P/1000	
V_N	Nominal voltage (RMS)	100V	400V	800V	1000V
V_P	Measuring range(V_{P-P})	0...±150V	0...±600V	0...±1200V	0...±1500V
R_M	Measuring resistance ($V_c = \pm 12 \dots 15V$)	$R_M \text{ min}$			
V_M	Output voltage	Nominal output voltage 5V, for primary nominal voltage V_N			
K_N	Turns ratio	5000:1000			
X	Accuracy	$V_N \pm 0.8\%$ ($T_a = +25^\circ C$)			
V_c	Supply voltage	$\pm 12V \dots 15V$ ($\pm 5\%$)			
V_i	Isolation voltage	Between primary and secondary circuit: 3KV 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 ($-25^\circ C \dots +70^\circ C$)			
L	Linearity	0.2%			
T_r	Response time	40...200µS			
f	Frequency bandwidth	0...20KHz			
T_a	Operating temperature	$-25^\circ C \dots +70^\circ C$			
T_s	Storage temperature	$-25^\circ C \dots +85^\circ C$			
I_c	Current consumption	10mA+ I_M (Measuring current)			
R_s	Secondary resistance	30Ω ($T_a = +70^\circ C$)			
R_N	Primary resistance	500Ω+R1 (Build in resistor) ($T_a = +70^\circ C$)			
W	Weight	110g			

Dimensions (mm):



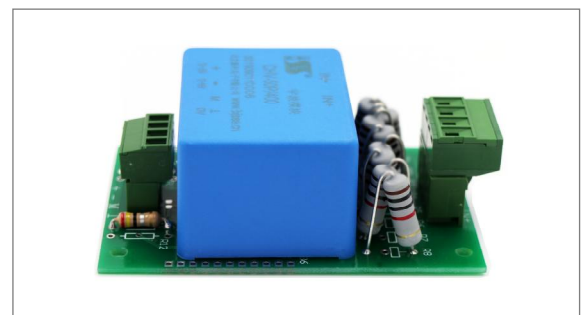
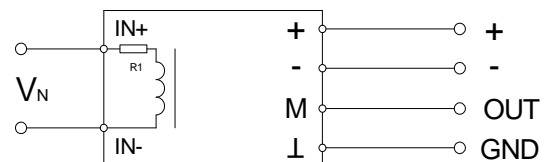
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Connection:



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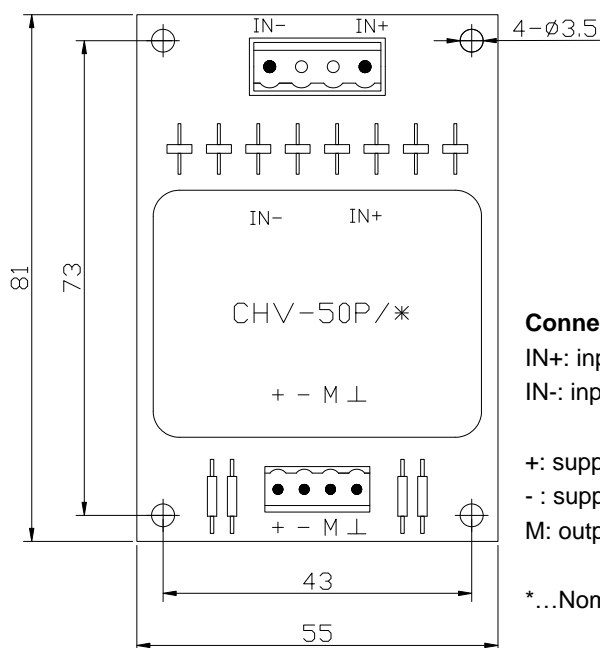
SENSOR Module CHV-50P/*A

$V_N = 100 \dots 1000V$

Specifications: Closed loop Hall voltage sensor, Nominal voltage 100...1000V RMS for measuring of voltage: AC, DC, pulsed

Type	CHV-50P/100A	CHV-50P/400A	CHV-50P/800A	CHV-50P/1000A	
V_N	Nominal voltage (RMS)	100V	400V	800V	1000V
V_P	Measuring range	0...±150V	0...±600V	0...±1200V	0...±1500V
R_M	Measuring resistance ($V_c = \pm 12 \dots 15V$)	R_M min		R_M max	
		0Ω		350Ω	
I_M	Output current	Nominal output current 25mA, for primary nominal voltage V_N			
K_N	Turns ratio	5000:1000		10000:1000	
X	Accuracy	$V_N \pm 0.8\%$ ($T_a = +25^\circ C$)			
V_c	Supply voltage	$\pm 12 \dots 15V$ ($\pm 5\%$)			
V_i	Isolation voltage	Between primary and secondary circuit: 3KV RMS/50Hz/1min.			
I_{off}	Offset current	$\pm 0.3mA$ max, for primary voltage $V_N = 0$ ($T_a = +25^\circ C$)			
T_d	Temperature drift	I_M of 0.05%/°C ($-25^\circ C \dots +70^\circ C$)			
L	Linearity	0.2%			
T_r	Response time	40...200μS			
f	Frequency bandwidth	0...20KHz			
T_a	Operating temperature	$-25^\circ C \dots +70^\circ C$			
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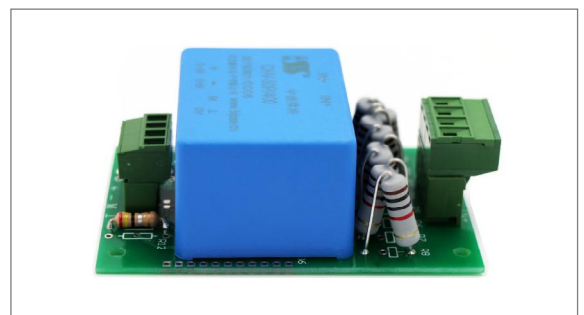
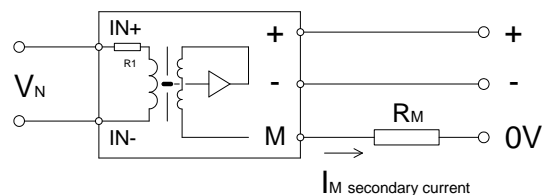
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