DATA SHEET
Hall Effect Voltage Sensor

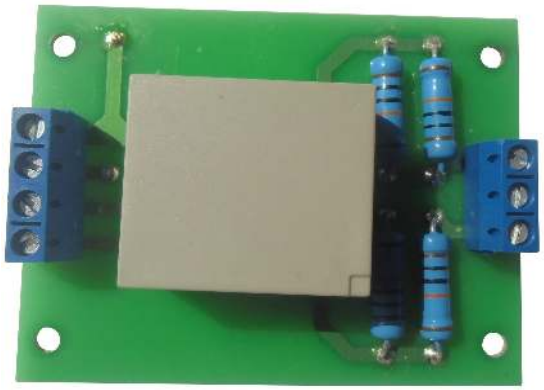
PN: CHV_AC15D25 | **IPN=200~1000V**

Feature

- Closed- loop (compensate) voltage transducer
- Supply voltage: DC ±12 ~ 15 V
- Capable measurement of DC and AC voltage with galvanic isolation between primary circuit and secondary circuit.

Advantages

- High accuracy
- Easy installation
- Low temperature drift
- High immunity to external interference



Applications

- The application of induction cooker
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)
- Inverter applications

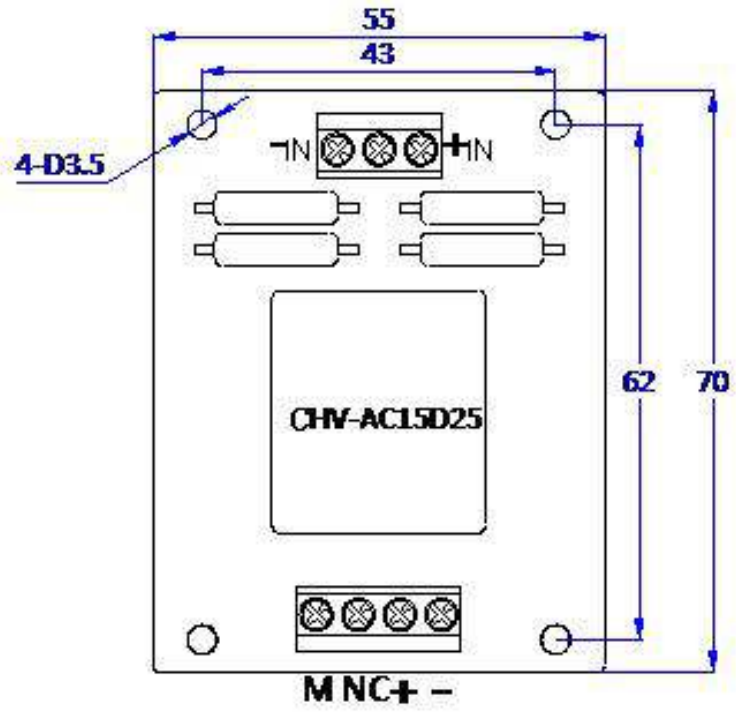
Electrical data：（Ta=25℃，Vc= ±15VDC）

Parmeter \ Ref	CHV200 AC15D25	CHV400 AC15D25	CHV600 AC15D25	CHV800 AC15D25	CHV1000 AC15D25
Rated input voltage Vpn(V)	200	400	600	800	1000
Measuring range Vp(V)	0 ~ ±280	0 ~ ±360	0 ~ ±840	0 ~ ±1120	0 ~ ±1400
Turns ratio Np/NS (T)	1000	1000	1000	1000	1000
Secondary coil resistance RS (Ω)	60	60	60	60	60
Output current rms IS(mA)	±25*VP/VPN				
Inside resistance RM (Ω)	[(VC-3.0V)/（IS*0.001）]-RS				
Supply voltage VC(V)	(±12 ~ ±15) ±5%				
Accuracy XG(%)	@IPN,T=25°C	< ±0.5			
Offset current IOE(mA)	@IP=0,T=25°C	< ±0.15			
Temperature variation of IOE IOT(mA/°C)	@IP=0,-40 ~ +85°C	< ±0.5			
Linearity error εr(%FS)	< 0.2				
Response time tra(μs)	@90% of IPN	<40.0			
Power consumption IC(mA)	15+Is				
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	2.5			

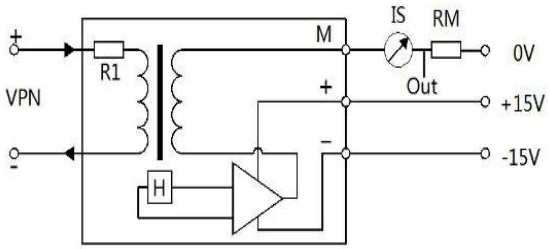
General data：

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-55~ +125
Mass M(g)	50
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):



Connection



General tolerance

General tolerance:< ±0.5mm

size of Primary pin：

DG301-5.0-03P；

Secondary pin:DG301-5.0-04P

Remarks：

- When the current goes through the primary pin of a sensor, the voltage will be measured at the output end.
- Custom design is available for the different rated input current and the output voltage.

WARNING : Incorrect wiring may cause damage to the sensor.