DATA SHEET
Hall Effect Voltage Sensor

PN: CHV_AS12/24S2	IPN=50~500V

Feature

- Closed- loop (compensated) voltage transducer
- Supply voltage: DC+12 V/+24V
- 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
- Very good linearity
- Can be customized

Applications

- Voltage detection of power distribution cabinet
- AC/DC variable-speed drive
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)

CE

RoHS

Electrical data：（Ta=25℃，Vc= +5VDC）

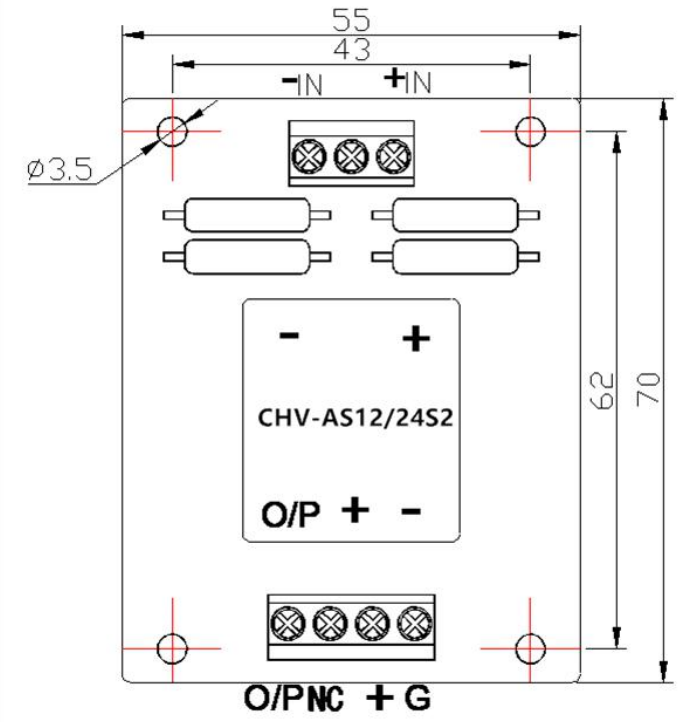
Parmeter / Ref	CHV50 AS12/24S2	CHV100 AS12/24S2	CHV200 AS12/24S2	CHV300 AS12/24S2	CHV400 AS12/24S2	CHV500 AS12/24S2
Rated input voltage Vpn(V)	50	100	200	300	400	500
Measuring range Vp(V)	0～+100	0～+200	0～+400	0～+600	0～+800	0～+1000
Turns ratio Np/NS (T)	3333:1000					
Rated input Ipn (mA)	3.0					
Rated output voltage (V)	@Vp=±Vpn ±2±0.5%					
Supply voltage VC(V)	12±5% /24±5%					
Zero voltage (V)	5±0.5%					
Consumption current (mA)	20+IpX(Np/Ns)					
Offset voltage drift (mV/°C)	@IP=0,-40～+85°C < ±0.3					
Linearity error εr(%FS)	< 0.2					

Response time tra(μs)	@90% of IPN	≤40.0
Bandwidth (HZ)		20～10000
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	2.5

General data：

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-40~ +125
Mass M(g)	45
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):



Remarks：
1. All dimensions are in mm.
2. General tolerance ±1mm

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.