DATA SHEET
Hall Effect Voltage Sensor

PN: CHV_ADA12/24S4	IPN=50~500V

Feature

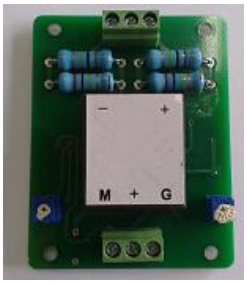
- Closed- loop (compensated) voltage transducer
- Supply voltage: DC 12 or 24V±5%
- It provides accurate electronic measurement of DC,AC or pulsed currents.
- It is the measuring principle of the hall effect ,with a galvanic isolation between primary and secondary circuit.

Advantages

- High accuracy
- Easy installation
- Low temperature drift
- High immunity to external interference
- Very good linearity
- Can be customized

Applications

- AC variable speed drives and servo motor drives
- Static converters for DC motor drives
- Variable speed drives
- Power supplies for welding applications
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies(SMPS)



CE

ISO 9001 2008

RoHS

Electrical data：（Ta=25℃，Vc= +12 or 24.0VDC）

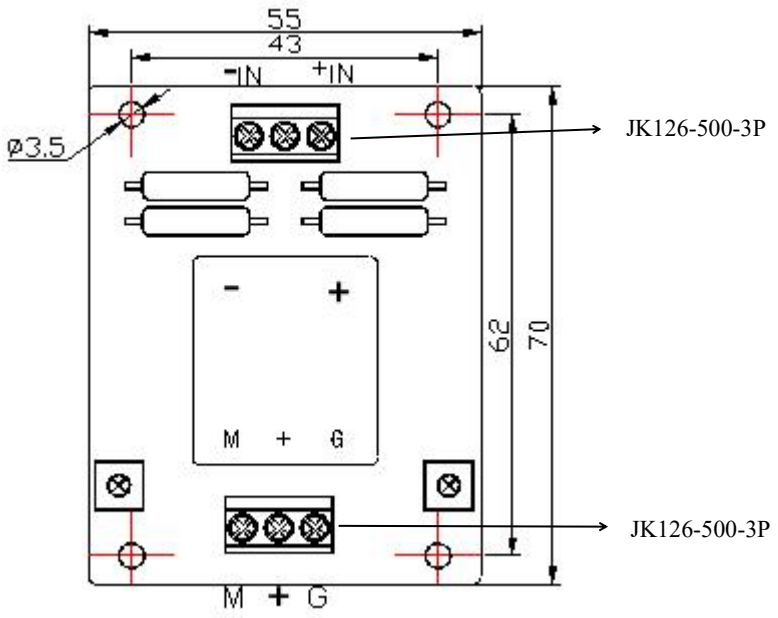
Parameter \ Ref	CHV50 ADA12/24S4	CHV100 ADA12/24S4	CHV200 ADA12/24S4	CHV300 ADA12/24S4	CHV400 ADA12/24S4	CHV500 ADA12/24S4
Rated input AC Vpn(V)	50	100	200	300	400	500
Measuring range AC Vp(V)	100	200	400	600	800	1000
Rated output DC Isn（mA）	4～20 (0-20)					
Turns ratio Np/Ns(T)	3333:1000					
Rated input Ipn(mA)	3.0					
Supply voltage (V)	12/24±5%					
Consumption current（mA）	20+IpX(Np/Ns)+ Isn					
Zero current（mA）	4(0)±0.2					

Offset current drift (mA/℃)	@ -40℃～+85℃	≤±0.005
Linearity (%FS)	@Vp=0-±Vpn	≤0.2
Response time tra(μs)		≤20
Bandwidth(KHZ)		20～10000
Galvanic isolation(KV)	@ 50HZ,AC,1min	2.5

General data:

Parameter	Value
Operating temperature TA(°C)	-40 ~ +85
Storage temperature TS(°C)	-40~ +125
Mass M(g)	43
Standards	UL94- V0;
	IEC60950-1:2001
	EN60947-1:2004
	EN50178:1998
	SJ20790-2000

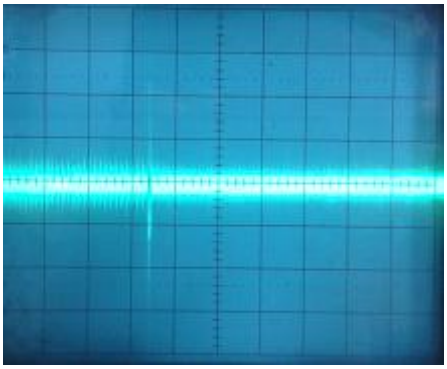
Dimensions(mm):



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

Characteristics chart:

Effects of Impulse Noise



⇦ 输出电压
(Output voltage)

Remarks:

- When the current will be measured goes through a transmitter, the current will be measured at the output end. (Note: The false wiring may result in the damage of the transmitter).
- Customs can adjust output amplitude of the transmitter by needs.
- Custom design in the different rated input current and the output voltage available.

WARNING : Incorrect wiring may cause damage to the sensor.