DATA SHEET
Hall Effect Voltage Sensor

PN: CHV_AVDA24S4	IPN=80~1000V

Feature

- Closed- loop (compensated) voltage transducer
- Supply voltage: DC+24 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
- 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)

Electrical data：（Ta=25℃，Vc= +24.0VDC）

Parmeter \ Ref	CHV80 AVDA24S4	CHV100 AVDA24S4	CHV300 AVDA24S4	CHV600 AVDA24S4	CHV1000 AVDA24S4
Rated input voltage Vpn(V)	80	100	300	600	1000
Measuring range Vp(V)	0～+112	0～+140	0～+420	0～+840	0～+1400
Turns ratio Np/NS (T)	1000	1000	1000	1000	1000
Output current IS(mA)	4.0+16*(VP/VPN)				
Supply voltage VC(V)	+24.0 ±5%				
Accuracy XG(%)	@IPN,T=25°C	< ±0.7			
Offset current IOE(mA)	@IP=0,T=25°C	< +4.0			
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				

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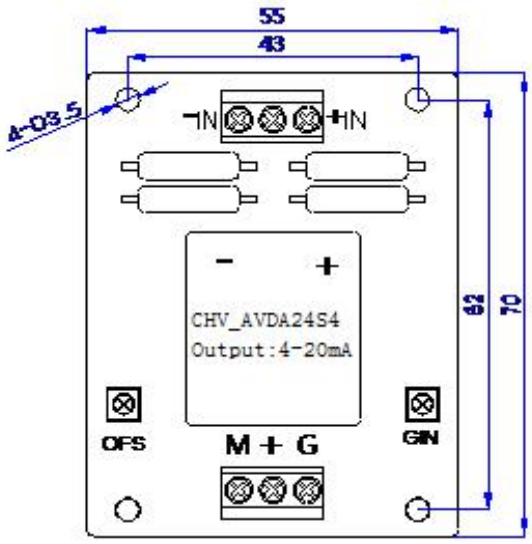
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC 2.5

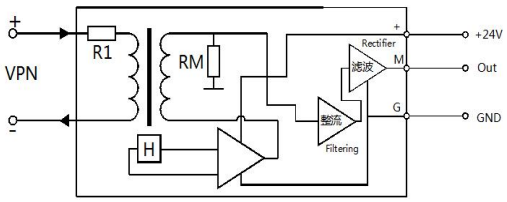
General data:

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:DG301-5.0-03P

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.