DATA SHEET
AC Leakage Current Sensor

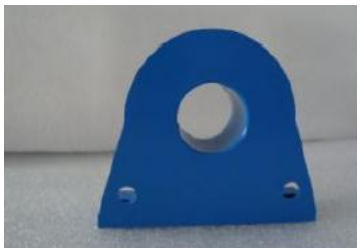
P/N: CHD_LTAA24S4	I_{PN}=10~1000mA

Feature

- The AC leakage current sensor based on the principle of electromagnetic effect can measure AC current under the condition of electrical isolation.
- Apply unique patented technology for measure tiny current (mA level)
- Supply voltage: DC 24V

Advantages

- High accuracy
- Easy installation
- Wide current measuring range
- Optimized response time
- Low power consumption
- High immunity to external interference
- Very good linearity
- Can be customized



Applications

- The current detection of the lift
- DC panel detection
- The signal system
- Current differential detection
- AC variable-speed drive/ Servo drive
- UPS and Inverter applications

CE RoHS

Electrical data:

Parameter / Ref	CHD10 LTAA24S4	CHD20 LTAA24S4	CHD50 LTAA24S4	CHD100 LTAA24S4	CHD200 LTAA24S4	CHD500 LTAA24S4	CHD1000 LTAA24S4
Rated input Ipn (AC)	10mA	20mA	50mA	100mA	200mA	500mA	1000mA
Measuring range Ip	0～±20mA	0～±30mA	0～±70mA	0～±120mA	0～±220mA	0～±600mA	0～±1200mA
Rated output voltage/current	4-20mA DC						
Supply voltage Vcc	DC 24V(±5%)						
Current consumption Ic	Voc=±12V < 20mA						
Galvanic isolation Vd	2.5KV/50Hz/1min						
Linearity	< 1% FS						
Working frequency	AC: 50Hz						
Offset voltage V_0	T_A=25℃ ＜±25mV						
Offset voltage drift V_{OT}	I_P=0 $T_{A=}$－10~+60℃ ＜±1.25mV/℃						
Operating temperature T_A	－10~+60℃						
Storage temperature T_S	－20~+70℃						

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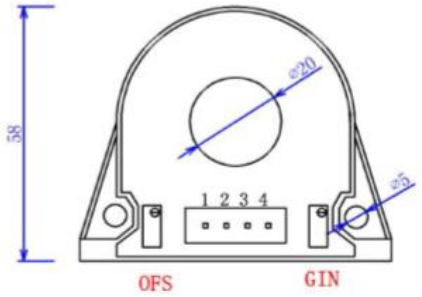
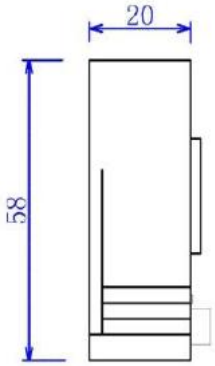
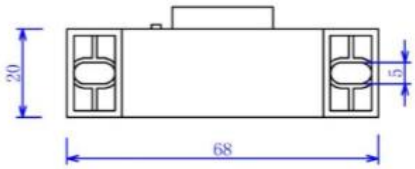
Load resistance R_L	≥20K Ω

Dimensions(mm):







1---+Vcc
2----Vcc
3---OUT
4---GND

OFS---Zero Adjusement
GIN--- Amplitude Regulation

General tolerance:< ±0.5mm
Primary through-hole：D20+0.2mm

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.
- The dynamic performance is the best when the primary hole if fully filled with.
- The primary conductor should be <100°C.

WARNING : Incorrect wiring may cause damage to the sensor.