



# DATA SHEET

## AC Leakage Current Sensor

**PN: CHD\_CRSA12S5**

**IPN=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 +12V / 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



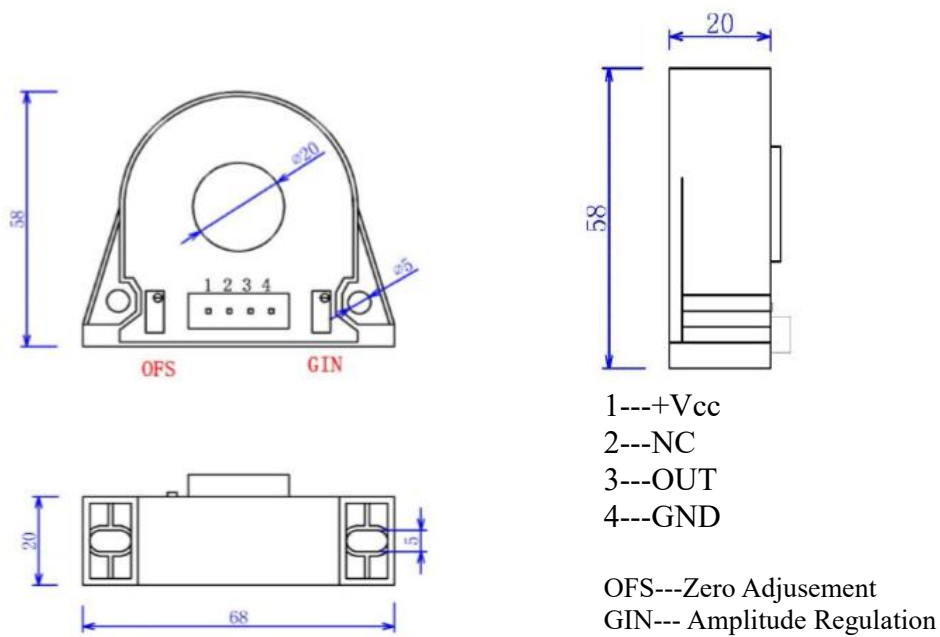
### Electrical data:

Ref	CHD10 CRSA12S5	CHD20 CRSA12S5	CHD50 CRSA12S5	CHD100 CRSA12S5	CHD200 CRSA12S5	CHD500 CRSA12S5	CHD1000 CRSA12S5
Rated input I <sub>pn</sub> (AC)	10mA	20mA	50mA	100mA	200mA	500mA	1000mA
Measuring range I <sub>p</sub>	0~±20mA	0~±50mA	0~±100mA	0~±200mA	0~±300mA	0~±800mA	0~±1200mA
Rated output voltage	DC 5V/ AC 5V (±1%)						
Supply voltage V <sub>cc</sub>	DC +12V /+24V (±5%)						
Current consumption I <sub>c</sub>	< 20mA						
Galvanic isolation V <sub>d</sub>	2.5KV/50Hz/1min						
Linearity ε <sub>L</sub>	< 0.5% FS						
Working frequency	50Hz						
Offset voltage V <sub>0</sub>	T <sub>A</sub> =25°C			<10mV			
Offset voltage drift V <sub>OT</sub>	I <sub>p</sub> =0 T <sub>A</sub> =-10~+60°C			<1mV/°C			
Operating temperature T <sub>A</sub>	-25~+70°C						
Storage temperature T <sub>S</sub>	-40~+85°C						



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**Dimensions(mm):**

General tolerance:  $< \pm 0.5\text{mm}$

Primary through-hole:  $D20+0.2\text{mm}$

**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 is fully filled with.
- The primary conductor should be  $< 100^\circ\text{C}$ .

**WARNING : Incorrect wiring may cause damage to the sensor.**

