



DATA SHEET

DC and AC Leakage Current Sensor

PN: CHD_CRDA12D

IPN=10~100mA

Feature

- AC flows into DC detection sensor series
- AC Leakage Current Sensor develops on base of magnetic modulation closed loop principle
- Apply unique patented technology for measure tiny current (mA level)
- Supply voltage: DC ± 12 V

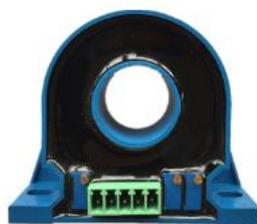
Advantages

- 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 CRDA12D	CHD20 CRDA12D	CHD30 CRDA12D	CHD50 CRDA12D	CHD100 CRDA12D
Rated input I _{pn} (DC+AC)	10mA	20mA	30mA	50mA	100mA
Measuring range I _p	0~±20mA	0~±50mA	0~±60mA	0~±80mA	0~±120mA
Rated output voltage/current	±5V, 4-20mA, 0-20mA (DC) + 2V (AC) (±1%)				
Supply voltage V _{cc}	DC ±12V~±15V (±5%)				
Current consumption I _c	< 20mA				
Galvanic isolation V _d	2.5KV/50Hz/1min				
Linearity	< 1% FS				
Working frequency	DC+AC: 30HZ-1KHZ				
Offset voltage V ₀	T _A =25°C < ±50mV				
Offset voltage drift V _{0T} (mV/°C)	I _p =0 T _A =-10~+60°C DC±2.5 AC<1				
Operating temperature T _A	-25~+70°C				



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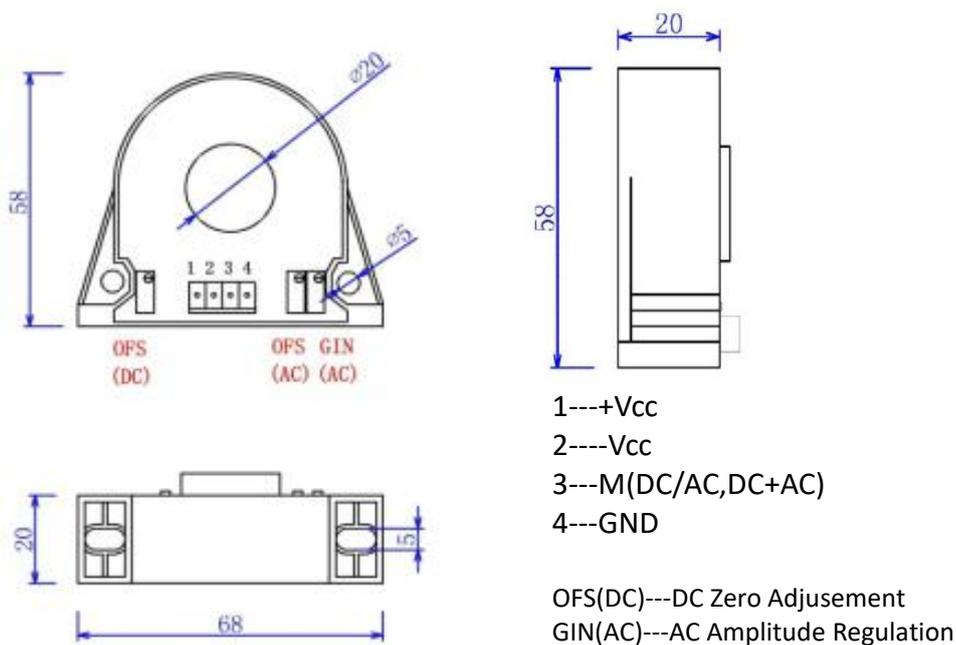
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Add: N22, Xianlongwan, Xianyin South Road, Qixia District, Nanjing - China.

Storage temperature T_s	-40~+85°C
Load resistance R_L	$\geq 10K \Omega$

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.

