



DATA SHEET

DC Leakage Current Sensor

PN: CHD_CRSD12S5

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

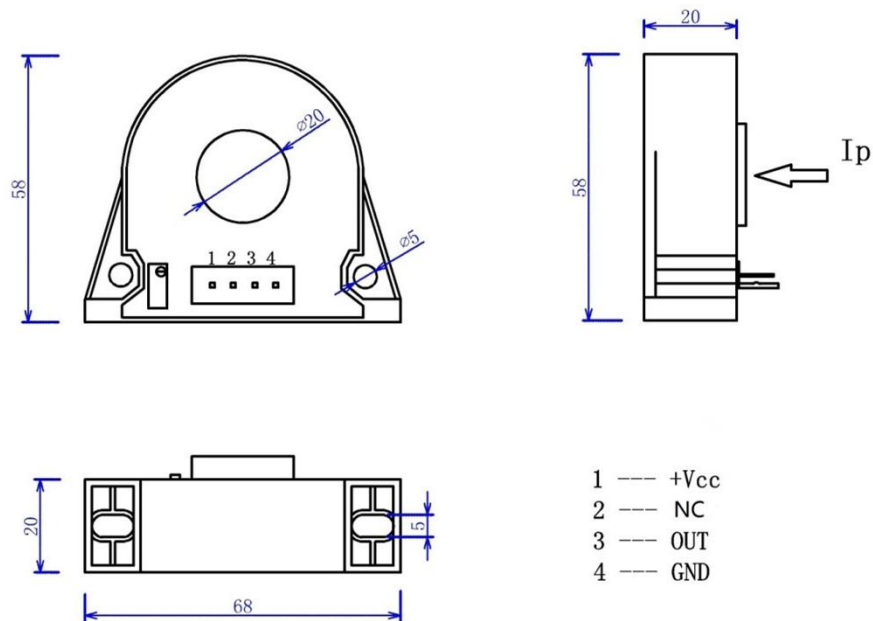


Electrical data:

Ref	CHD10 CRSD12S5	CHD20 CRSD12S5	CHD50 CRSD12S5	CHD100 CRSD12S5	CHD200 CRSD12S5	CHD500 CRSD12S5	CHD1000 CRSD12S5
Rated input I _{pn} (DC)	10mA	20mA	50mA	100mA	200mA	500mA	1000mA
Measuring range I _p	0~±20mA	0~±50mA	0~±100mA	0~±200mA	0~±300mA	0~±800mA	0~±1200mA
Rated output voltage	DC 2.5V±2.5V (±1%)						
Supply voltage V _{cc}	DC +12V /+24V (±5%)						
Current consumption I _c	< 20mA						
Galvanic isolation V _d	2.5KV/50Hz/1min						
Linearity ε _L	< 1.0 % FS						
Offset voltage V ₀	T _A =25°C		<±50mV				
Offset voltage drift V _{OT}	I _p =0 T _A =-10~+60°C		<±2.5 mV/°C				
Operating temperature T _A	-25~+70°C						
Storage temperature T _S	-40~+85°C						
Load resistance R _L	≥10K Ω						



Dimensions(mm):



OFS---Zero Adjustement
GIN--- Amplitude Regulation

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 $<100^{\circ}\text{C}</math>.$

WARNING : Incorrect wiring may cause damage to the sensor.

