



# DATA SHEET

## DC Leakage Current Sensor

**PN: CHD\_SC812D5**

**IPN=10~1000mA**

### Feature

- DC 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  $\pm 12V$

### 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
- UPS and Inverter applications



**RoHS**

### Electrical data: (Ta=25°C, Vc= $\pm 12VDC$ , RL=10K $\Omega$ )

Parmeter Ref	CHD10SC812D5	CHD50SC812D5	CHD100SC812D5	CHD1000SC812D5
Rated input Ipn (mA DC)	$\pm 10$	$\pm 50$	$\pm 100$	$\pm 1000$
Measuring range Ip (mA DC)	0~ $\pm 12$	0~ $\pm 60$	0~ $\pm 120$	0~ $\pm 1200$
Output voltage Vo(V)	DC $\pm 5.0V$			
Supply voltage VC(V)	DC $\pm 12 \pm 5\%$			
Accuracy XG(%)	@IPN,T=25°C		$\leq \pm 1$	
Offset voltage V <sub>OE</sub> (mV)	@IP=0,T=25°C		$< \pm 150mV$	
Zero temperature variation of V <sub>OE</sub> V <sub>OT</sub> (mV/°C)	@IP=0,-20 ~ +60°C		$\leq \pm 3.0$	
Linearity error $\epsilon_r$ (%FS)	$\leq 1.0$			
Resolution	10 $\mu A$			
Immunity characteristics	@H=50A DC/m		$\leq 5mV$	
Power consumption IC(mA)	$< 10mA$			
Insulation voltage (KV)	@50/60Hz, 1min		3kV rms	

### General data:

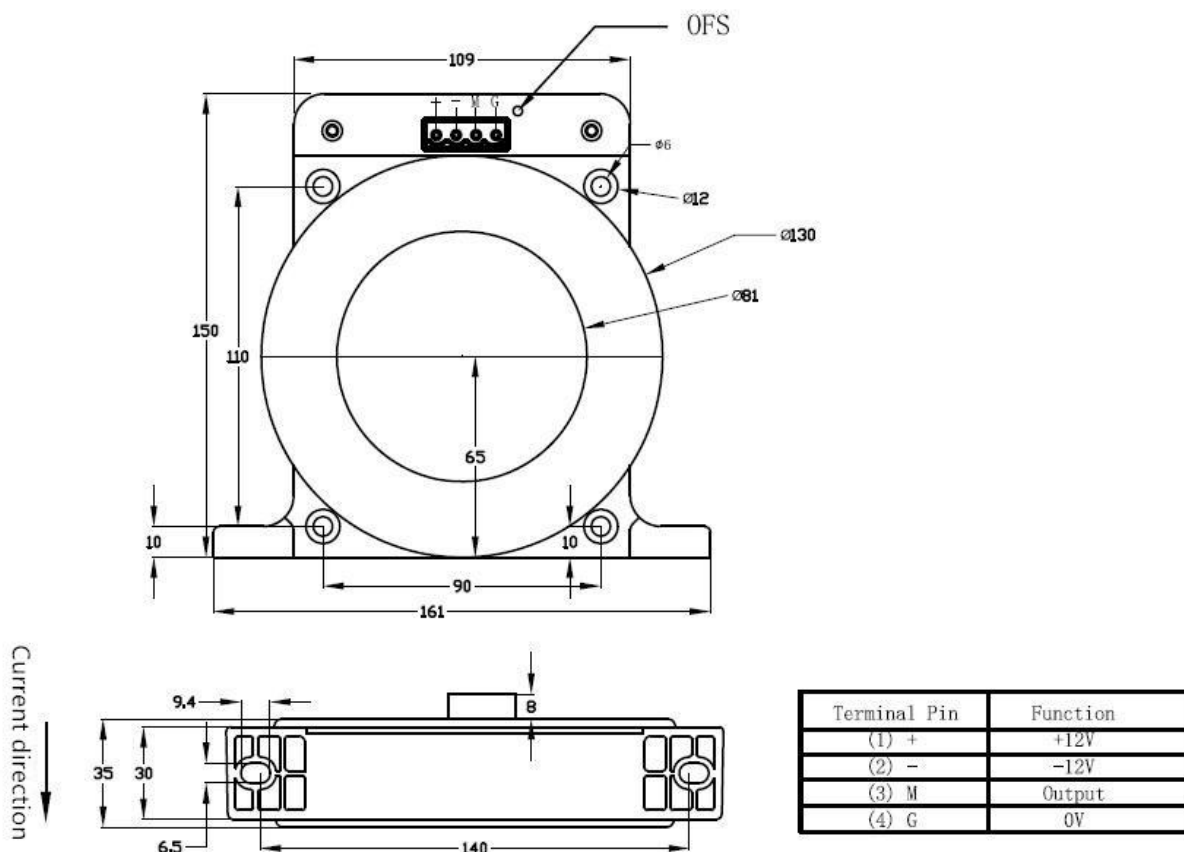


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Parameter	Value
Operating temperature TA(°C)	-20+85
Storage temperature TS(°C)	-40~+85
Load resistance (RL)	≥10K
Mass (g)	1100g
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

## Dimensions(mm):



## Remarks:

- During the installation process, on the sensor, close attention should be paid to side core interface is aligned, not forcibly closed.
- 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.**



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