

DATA SHEET DC Leakage Current Sensor

PN: CHD_EA15D5

IPN=10~50mA

Feature

- CHD EB15D5 series DC leakage current sensor is a series of new device developed according to principle of electromagnetic induction.
- Its low current is stable. It is highly insulating between its primary coil and secondary coil.
- This sensor is used to measure current of signal system, circuit, and leakage monitoring system, as well as to measure current difference.
- Supply voltage: DC ±12~15 V

Advantages

- High accuracy
- Easy installation
- Wide current measuring range
- Optimized response time
- Low power consumption
- High immunity to external interference

Applications

- The current detection of the lift
- DC panel detection
- The signal system
- Current differential detection
- Smart electric vehicle charging stations
- **UPS** and Inverter applications

- Very good linearity
- Can be customized







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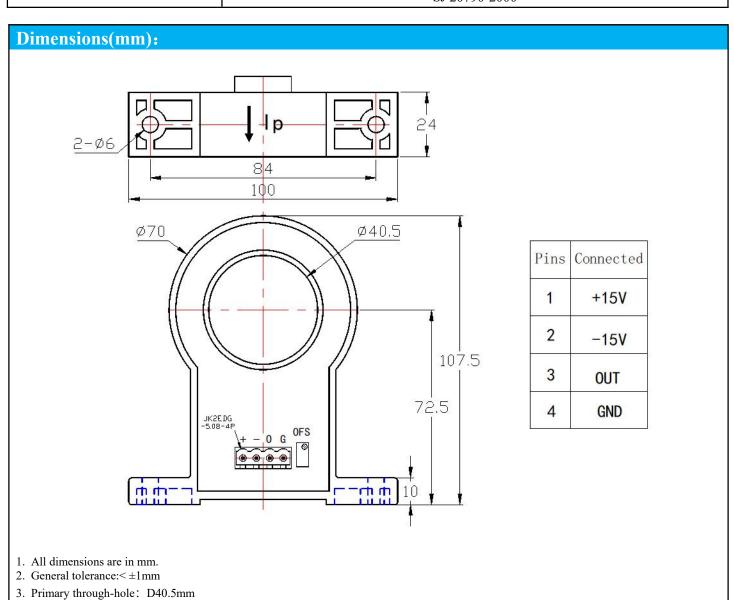
Electrical data(Ta=25°C±5°C):					
Ref	CHD10EA12D5	CHD20EA12D5	CHD30EA12D5	CHD40EA12D5	CHD50EA12D5
Rated input Ipn (DC)	10mA	20mA	30mA	40mA	50mA
Measuring range Ip (DC)	0∼±20mA	0∼±40mA	0~±60mA	0~±80mA	0∼±100mA
Turns ratio(Np/Ns) (T)	1:50	1:100	1:150	1:200	1:250
Rated output voltage	@Ip= \pm Ipn $\pm 5V \pm 1\%$				
Supply voltage Vcc	DC±12V~±15V(±5%)				
Current consumption Ic	20mA+IpX(Np/Ns)				
Offset voltage	@Ip=0 ≤±50mV				
Offset voltage drift	@ -40°C ~ 85°C ≤±1.5mV/°C				
Linearity	@Ip=0-±Ipn < 1% FS				
Response time	≤50mS				



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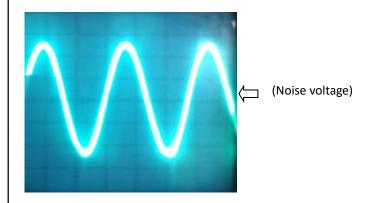
General data:				
Parameter	Value			
Operating temperature TA(°C)	-40 ∼ +85			
Storage temperature TS(°C)	-40~ +125			
Mass M(g)	252			
	UL94-V0			
	EN60947-1:2004			
Standards	IEC60950-1:2001			
	EN50178:1998			
	SJ 20790-2000			





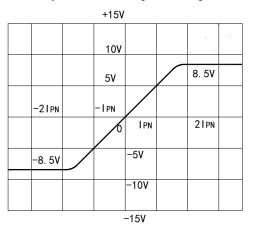
Characteristics chart:

Characteristic of Output Noise Voltage



Input Current-Output Voltage

Primary Current(Ip)--Output(V)



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.

