

DATA SHEET DC Leakage Current Sensor

PN: CHD EB15D5

IPN=10~1000mA

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





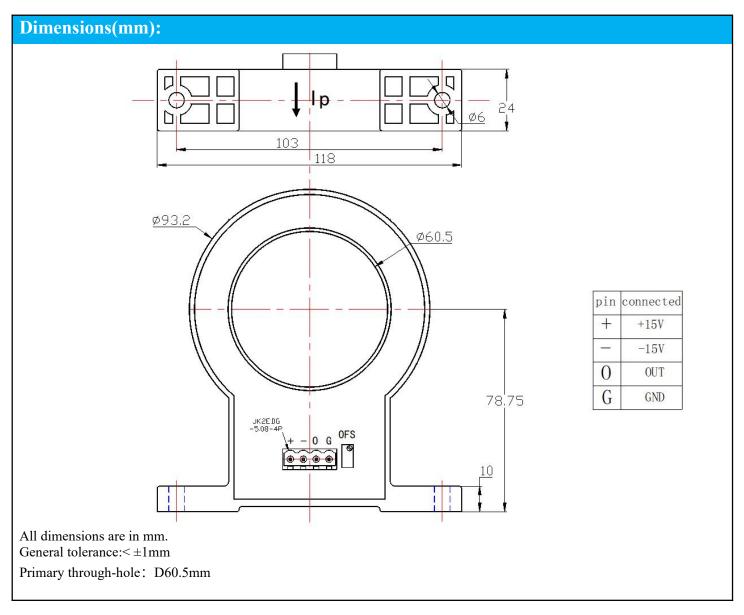




Electrical data:							
Ref	CHD10 EB12D5	CHD20 EB12D5	CHD40 EB12D5	CHD100 EB12D5	CHD200 EB12D5	CHD500 EB12D5	CHD1000 EB12D5
Rated input Ipn (DC)	10mA	20mA	30mA	40mA	50mA	500mA	1000mA
Measuring range Ip (DC)	0~±15mA	0~±30mA	0∼±45mA	0~±60mA	0∼±75mA	0~±750mA	0~±1500mA
Turns ratio(Np/Ns) (T)	1:50	1:100	1:150	1:200	1:250	1:250	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						
Galvanic isolation Vd	@ 50HZ,AC,	,1min	2.5KV				
Cheemi Technology Co., Ltd							



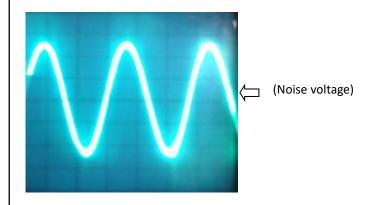
General data:					
Parameter	Value				
Operating temperature TA(°C)	-40 ∼ +85				
Storage temperature TS(°C)	-40~ +125				
Mass M(g)	350				
	UL94-V0				
	EN60947-1:2004				
Standards	IEC60950-1:2001				
	EN50178:1998				
	SJ 20790-2000				





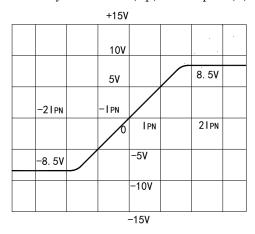
Characteristics chart:

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.

