



DATA SHEET

DC Leakage Current Sensor

PN: CHD_LCT15D5

IPN=10~100mA

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 ±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
- AC variable-speed drive/ Servo drive
- UPS and Inverter applications

- Very good linearity
- Can be customized



RoHS

Electrical data: (Ta=25°C, Vc= ±15VDC)

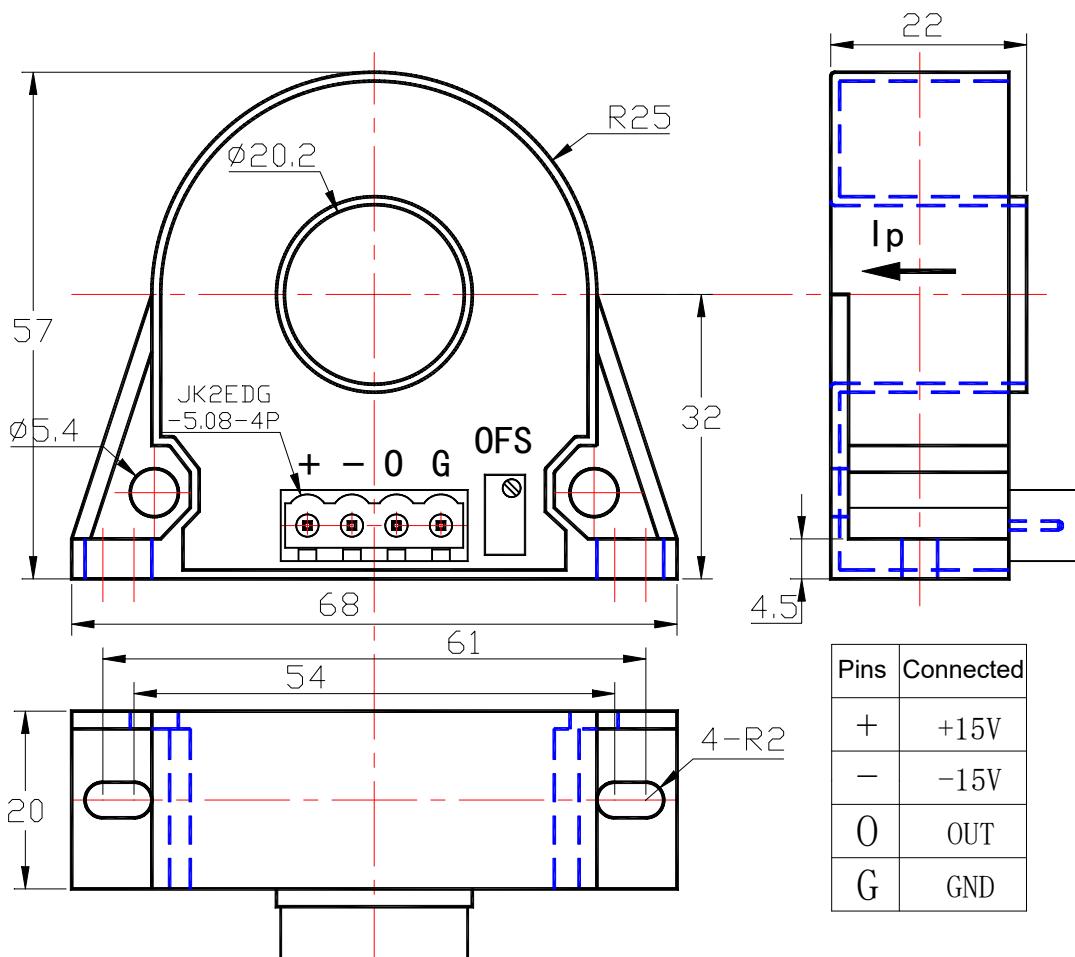
Parameter Ref	CHD10 LCT15D5	CHD20 LCT15D5	CHD30LC T15D5	CHD40L CT15D5	CHD50L CT15D5	CHD100 LCT15D5					
Rated input Ip	±10mA DC	±20mA DC	±30mA DC	±40mA DC	±50mA DC	±100 mA DC					
Measuring range Ip	0~±15mA	0~±30mA	0~±45mA	0~±60mA	0~±75mA	0~±150mA					
Turns ratio(Np/Ns) (T)	1:50	1:100	1:150	1:200	1:250	1:400					
Output voltage Vo(V)	@Ip=±Ip	±5±0.5%									
Supply voltage VC(V)	(±12~±15) ±5%										
Accuracy XG(%)	@IPN,T=25°C ≤±1										
Offset voltage VOE(mV)	@IP=0,T=25°C <±50										
Offset voltage drift VOT(mV/°C)	@IP=0,-40 ~ +85°C ≤±1.5										
Linearity error er(%FS)	≤1.0										
Response time tra(mS)	≤60					≤35					



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Consumption current (mA)	20+IpX(Np/Ns)	
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	2.5
General data:		
Parameter	Value	
Operating temperature TA(°C)	-40 ~ +85	
Storage temperature TS(°C)	-40~ +125	
Mass M(g)	99	
Plastic material	PBT G30/G15, UL94- V0;	
Standards	IEC60950-1:2001	
	EN50178:1998	
	SJ20790-2000	

Dimensions(mm):



General tolerance:<±0.5mm

Primary through-hole: D20.2±0.15mm

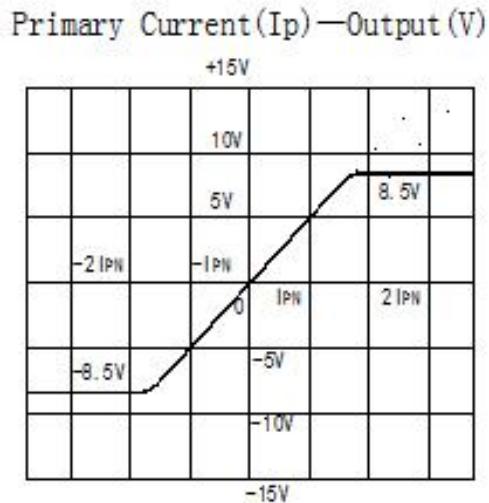


Characteristics chart:

Characteristic of Output Noise Voltage



Input Current-Output Voltage



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.

