



DATA SHEET

DC Leakage Current Sensor

PN: CHD_LH15D5

IPN=05~100mA

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 ±12~18 V

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



RoHS

Electrical data: (Ta=25°C, Vc= ±15VDC, RL=10KΩ)

Parameter	Ref	CHD05 LH15D5	CHD10 LH15D5	CHD20 LH15D5	CHD40 LH15D5	CHD50 LH15D5	CHD100 LH15D5
Rated input IPn(mA) DC		05	10	20	40	50	100
Measuring range Ip(mA)		0~±10	0~±20	0~±40	0~±80	0~±100	0~±200
Output voltage Vo(V)				±5.0*(IP/IPN)			
Supply voltage VC(V)				(±12~±18) ±5%			
Accuracy XG(%)		@IPN,T=25°C		≤±1.0			
Offset voltage VOE(mV)		@IP=0,T=25°C		<±50			
Temperature variation of VOE VOT(mV/°C)		@IP=0, -10~75°C		≤±1.0			
Hysteresis offset voltage VOH(mV)		@IP=0,after 1*IPN		≤±25			
Linearity error εr(%FS)				≤1.0			
Response time tra(ms)		@90% of IPN		≤300			
Power consumption IC(mA)				9.0+Is			
Bandwidth BW(KHZ)		@-3dB,IPN		DC			
Insulation voltage Vd(kV)		@50/60Hz, 1min,AC		3.0			

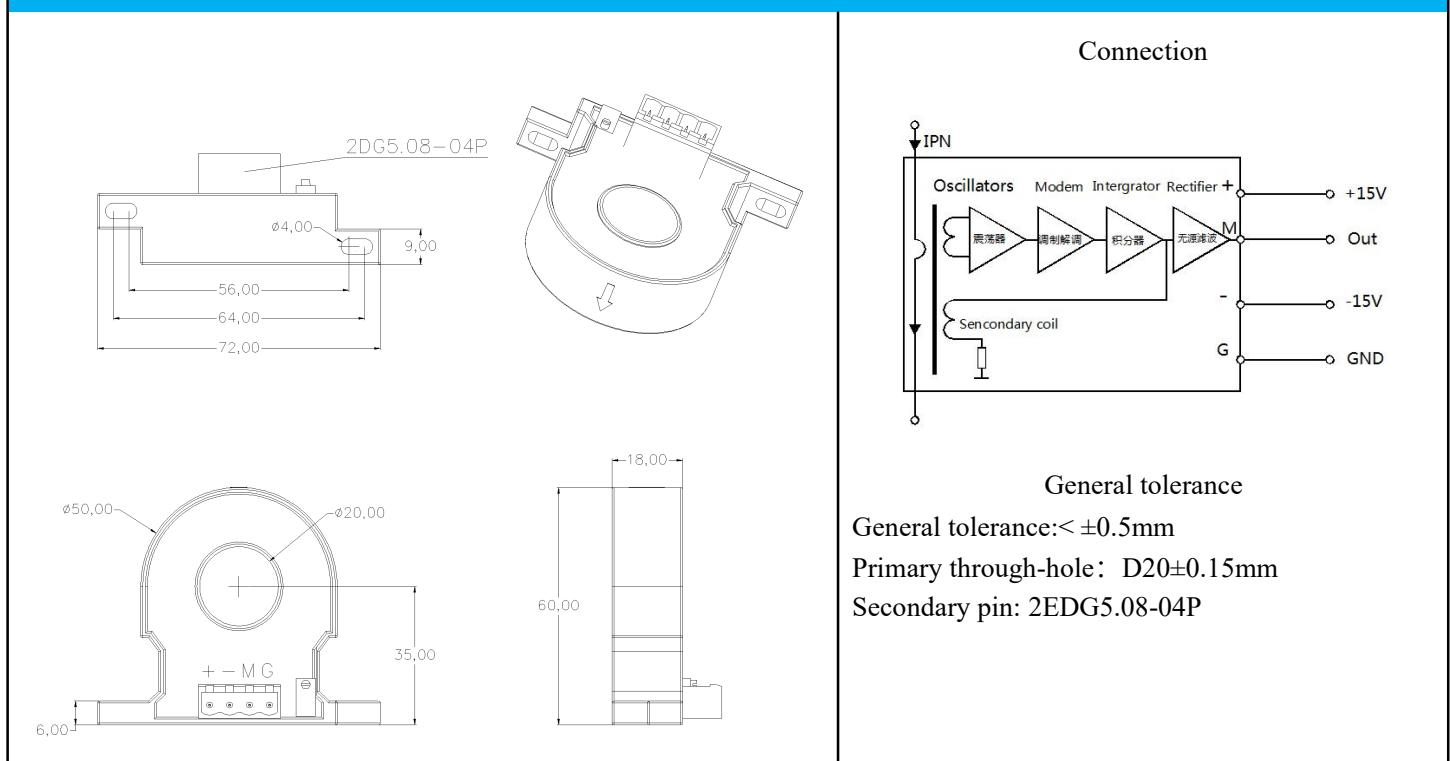


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General data:

Parameter	Value
Operating temperature TA(°C)	-10 ~ +70
Storage temperature TS(°C)	-20~ +85
Mass M(g)	75
Plastic material	PBT G30/G15, UL94- V0; IEC60950-1:2001
Standards	EN50178:1998 SJ20790-2000

Dimensions(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 if fully filled with.
- The primary conductor should be <100°C.

WARNING : Incorrect wiring may cause damage to the sensor.

