



# DATA SHEET

## DC Leakage Current Sensor

**PN: CHD\_E4T15D5**

**I<sub>PN</sub>=05~2000mA**

### Feature

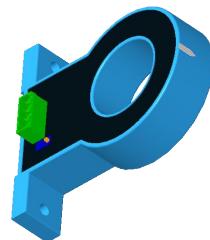
- DC Leakage Current Sensor develops on base of flux-gate principle
- Apply unique patented technology for measure tiny current (mA level)
- For the electronic measurement of currents:small DC single, with galvanic separation between primary circuit and secondary circuit
- Supply voltage: DC ±12~15 V

### Advantages

- Easy installation
- Only one design for wide current ratings range
- Optimized response time
- Low power consumption
- High immunity to external interference
- Can be customized

### Applications

- The current detection of the lift
- DC panel detection
- The signal system
- Current differential detection



**RoHS**

### Electrical data: (Ta=25°C, Vc= ±15VDC, R<sub>L</sub>=10K Ω )

Parameter Ref	CHD10 E4T15D5	CHD20 E4T15D5	CHD30 E4T15D5	CHD40 E4T15D5	CHD50 E4T15D5	CHD100 E4T15D5	CHD1000 E4T15D5
Rated input I <sub>PN</sub> (mA) DC	10	20	30	40	50	100	1000
Measuring range I <sub>P</sub> (mA)	0~±14	0~±28	0~±42	0~±56	0~±70	0~±140	0~±1400
Output voltage V <sub>O</sub> (V)	±5.0*(I <sub>P</sub> /I <sub>PN</sub> ), DC						
Load resistance(R <sub>L</sub> )	>10						
Supply voltage V <sub>C</sub> (V)	(±12~±15) ±5%						
Accuracy X <sub>G</sub> (%)	@I <sub>PN</sub> , T=25°C      ≤±1.0						
Offset voltage V <sub>OE</sub> (mV)	@I <sub>P</sub> =0, T=25°C      <±50						
Temperature variation of V <sub>OE</sub> V <sub>OT</sub> (mV/°C)	@I <sub>P</sub> =0, -40~ +85°C      ≤±2.0						
Hysteresis offset voltage V <sub>OH</sub> (mV)	@I <sub>P</sub> =0, after 1*I <sub>PN</sub> ≤±25						
Linearity error ε <sub>R</sub> (%FS)	<1.0						
Response time t <sub>ra</sub> (ms)	@90% of I <sub>PN</sub> <200						
Power consumption I <sub>C</sub> (mA)	10+I <sub>S</sub>						



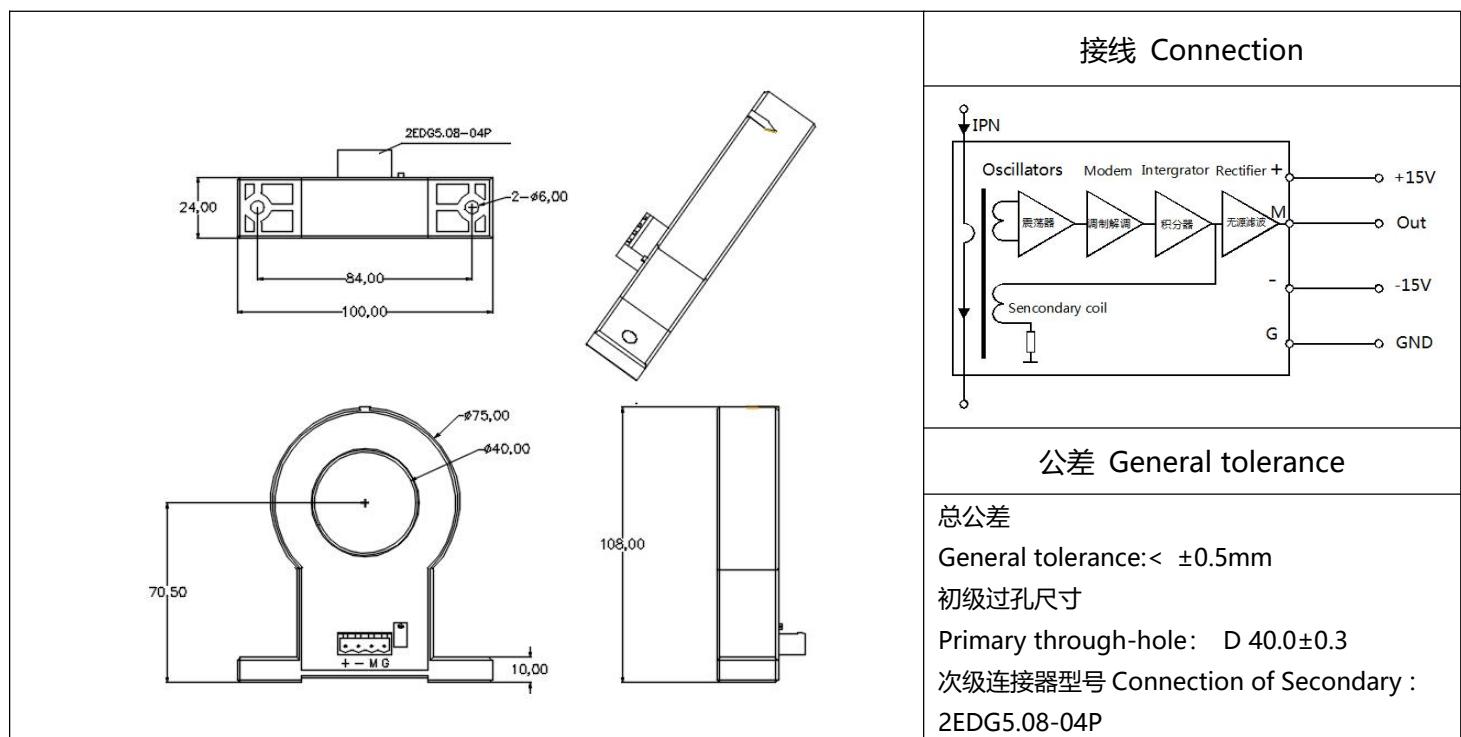
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Bandwidth BW(KHZ)	@-3dB, IPN	DC
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	3.0

## General data:

Parameter	Value
Operating temperature TA(°C)	-10 ~ +70
Storage temperature TS(°C )	-25~ +70
Mass M(g )	220
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001 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.**

