DATA SHEET
DC Leakage Current Sensor

PN: CHD_ET15D5-S1	I_{PN}=5~100mA

Feature

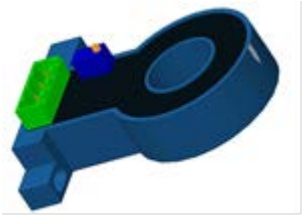
- DC leakage current sensor using the Flux-gate principle
- For the electronic measurement of currents: small DC single, with galvanic separation between primary circuit and secondary circuit
- Supply voltage: DC ±12~15 V

Advantages

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

Applications

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



RoHS

Electrical data：（Ta=25℃， Vc= ±15VDC, R_L=10K Ω）

Parameter Ref	CHD05 ET15D5-S1	CHD10 ET15D5-S1	CHD20 ET15D5-S1	CHD30 ET15D5-S1	CHD40 ET15D5-S1	CHD50 ET15D5-S1	CHD100 ET15D5-S1
Rated input Ipn(mA) DC	5	10	20	30	40	50	100
Measuring range Ip(mA)	0～±7	0～±14	0～±28	0～±42	0～±56	0～±70	0～±140
Output voltage Vo(V)	±5.0*(I_P/I_{PN}), DC						
Load resistance(R_L)	>10						
Supply voltage V_C(V)	(±12~±15) ±5%						
Accuracy X_G(%)	@I_{PN},T=25°C	≤ ±1.0					
Offset voltage V_{OE}(mV)	@I_P=0,T=25°C	<±50					
Temperature variation of V_{OE} V_{OT}(mV/°C)	@I_P=0, -40~ +85°C	≤ ±2.0					
Hysteresis offset voltage V_{OH}(mV)	@I_P=0, after 1*I_{PN}	≤ ±25					
Linearity error εr(%FS)	<1.0						
Response time tra(ms)	@90% of I_{PN}	<300					
Power consumption I_C(mA)	9.0+Is						

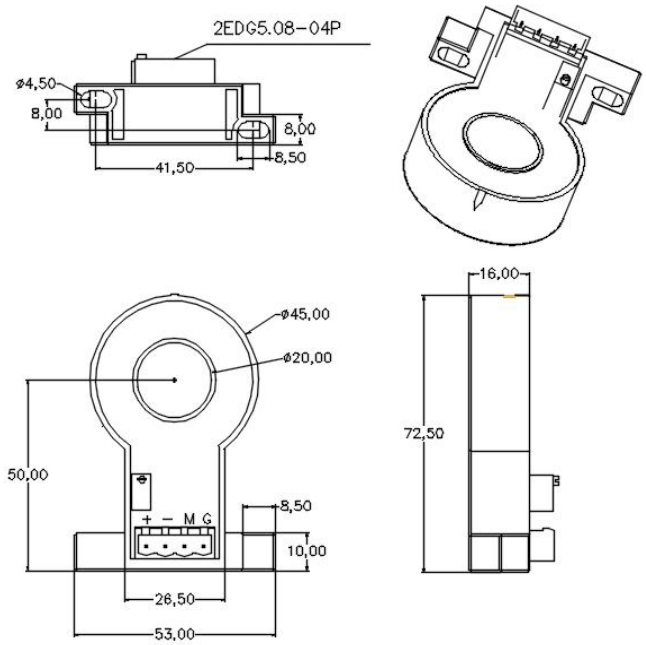
Cheemi Technology Co., Ltd
Tel: 025-85996365 E-mail: info@cheemi-tech.com www. cheemi-tech.com
Add:N22, Xianlongwan, Xianyin South Road, Qixia District, Nanjing - China.

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

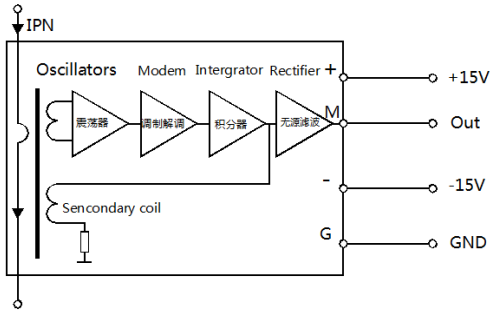
General data：

Parameter	Value
Operating temperature TA(°C)	-10 ~ +70
Storage temperature TS(°C)	-25~ +70
Mass M(g)	65
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):



接线 Connection



公差 General tolerance

总公差

General tolerance:< ±0.5mm

初级过孔尺寸

Primary through-hole: D 20.0±0.15

次级连接器型号 Connection of Secondary :

2EDG5.08-04P

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.