DATA SHEET
DC Leakage Current Sensor

PN: CHD_E15D5	IPN=01~100mA

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
- 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

CE RoHS

Electrical data：（Ta=25℃， Vc= ±15VDC）

Parmeter \ Ref	CHD01 E15D5	CHD05 E15D5	CHD10 E15D5	CHD20 E15D5	CHD30 E15D5	CHD40 E15D5	CHD50 E15D5	CHD100 E15D5
Rated input Ipn(mA) DC	01	05	10	20	30	40	50	100
Measuring range Ip(A)	0～±02	0～±10	0～±20	0～±40	0～±60	0～±80	0～±100	0～±200
Output voltage Vo(V)	±5.0*(IP/IPN)							
Supply voltage VC(V)	(±12~±15) ±5%							
Accuracy XG(%)	@IPN,T=25°C ≤±1							
Offset voltage VOE(mV)	@IP=0,T=25°C <±30							
Temperature variation of VOE VOT(mV/°C)	@IP=0,-20 ~ +80°C ≤±1.5							
Hysteresis offset voltage VOH(mV)	@IP=0,after 1*IPN ≤±30							
Linearity error εr(%FS)	≤1.0							
Response time tra(ms)	@90% of IPN ≤20							
Power consumption IC(mA)	15+Is							
Bandwidth BW(KHZ)	@-3dB,IPN DC							

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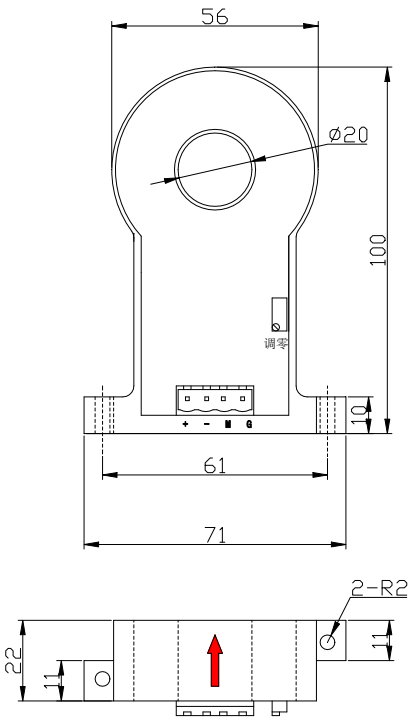
Insulation voltage Vd(KV)	@50/60Hz, 1min,AC	3.0

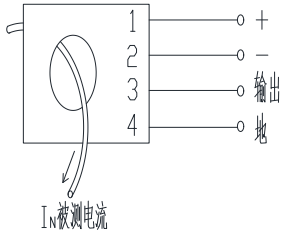
General data:

Parameter	Value
Operating temperature TA(°C)	-20 ~ +80
Storage temperature TS(°C)	-40~ +85
Mass M(g)	75
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):



Connection



端子说明		
+	1	+15V
−	2	-15V
M	3	Out
G	4	GND

General tolerance

General tolerance:< ±0.5mm

Primary through-hole：D20±0.15mm

Secondary pin: 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.

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