



DATA SHEET

DC Leakage Current Sensor

PN: CHD_LTB15D5

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 $\pm 12\sim 15$ 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



RoHS

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

Ref Parmeter	CHD10 LTB15D5	CHD20 LTB15D5	CHD50 LTB15D5	CHD100 LTB15D5
Rated input Ipn(mA) DC	10	20	50	100
Measuring range Ip(A)	0~±20	0~±40	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		≤ ±1.0	
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
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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															
	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="3">端子说明</th> </tr> </thead> <tbody> <tr> <td>+</td> <td>1</td> <td>+15V</td> </tr> <tr> <td>-</td> <td>2</td> <td>-15V</td> </tr> <tr> <td>M</td> <td>3</td> <td>Out</td> </tr> <tr> <td>G</td> <td>4</td> <td>GND</td> </tr> </tbody> </table>	端子说明			+	1	+15V	-	2	-15V	M	3	Out	G	4	GND
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G	4	GND														
General tolerance																
General tolerance: $\pm 0.5\text{mm}$ Primary through-hole : $D43 \pm 0.15\text{mm}$ 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 is fully filled with.
- The primary conductor should be $< 100^{\circ}\text{C}$.

WARNING : Incorrect wiring may cause damage to the sensor.



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