

DATA SHEET DC Leakage Current Sensor

PN: CHD_LTB15D5

IPN=10~100mA

Feature

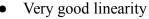
- DC Leakage Current Sensor develops on base of magnetic modulation closed loop principle
- Apply unique patented technology for measure tiny current (mA level)
- Supply voltage: DC $\pm 12 \sim 15 \text{ V}$

Advantages

- High accuracy
- Easy installation
- Wide current measuring range
- Optimized response time
- Low power consumption
- High immunity to external interference

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



• Can be customized







CE RoH

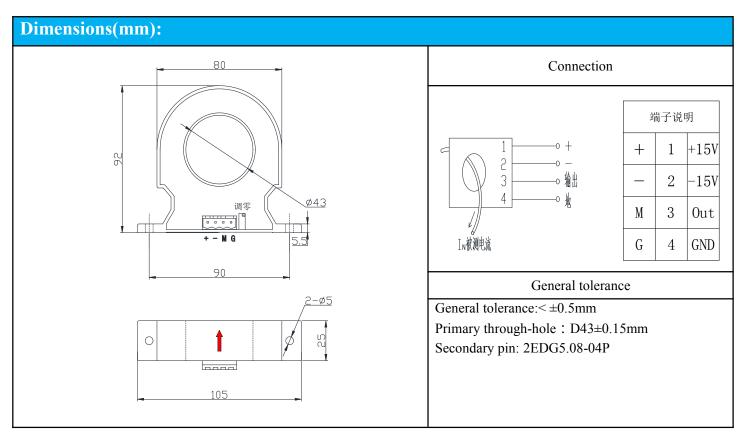
Electrical data: (Ta=25°C, Vc=±15VDC,RL=10KΩ)				
Ref Parmeter	CHD10 LTB15D5	CHD20 LTB15D5	CHD50 LTB15D5	CHD100 LTB15D5
Rated input Ipn(mA) DC	10	20	50	100
Measuring range Ip(A)	0∼±20	0~±40	0∼±100	0∼±200
Output voltage Vo(V)	±5.0*(IP/IPN)			
Supply voltage VC(V)	(±12~±15) ±5%			
Accuracy XG(%)	@IPN,T=25°C $\leq \pm 1$			
Offset voltage VOE(mV)	@IP=0,T=25°C <±30			
Temperature variation of VOE VOT(mV/°C)	@IP=0,-20 ~ +80°C $\leq \pm 1.0$			
Hysteresis offset voltage VOH(mV)	@IP=0,after 1*IPN ≤±30			
Linearity error er(%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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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;			
	IEC60950-1:2001			
Standards	EN50178:1998			
	SJ20790-2000			



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.

