



DATA SHEET

Split Core DC Leakage Current Sensor

PN: CHD_ST15D

IPN=10~20mA

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)

Parameter Ref	CHD10 ST15D_	CHD20 ST15D_
Rated input Ipn	±10mA DC	±20mA DC
Measuring range Ip	0~±20mA DC	0~±40mA DC
Output voltage Vo(V)	DC ±5V, 4-20mA, 0-20mA (±3%)	
Supply voltage VC(V)	(±12~±15) ±5%	
Accuracy XG(%)	@IPN,T=25°C	≤±1
Offset voltage VOE(mV)	@IP=0,T=25°C	<±500mV
Temperature variation of VOE VOT(mV/°C)	@IP=0,-20 ~ +60°C	≤±8.0
Linearity error εr(%FS)		≤1.0
Anti-interference characteristics	@H=50A DC/m	< ±5mV
Power consumption IC(mA)		<20mA
Insulation voltage	@50/60Hz, 1min	2.5kV rms



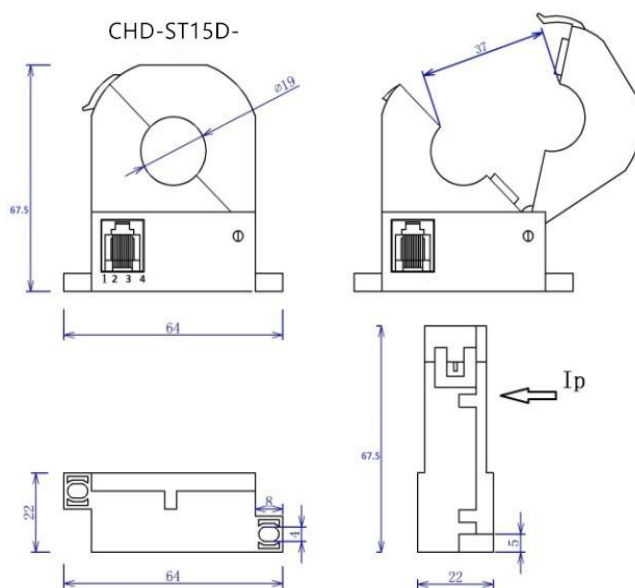
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General data:

Parameter	Value
Operating temperature TA(°C)	-10 ~ +60
Storage temperature TS(°C)	-20 ~ +70
Mass	70g
Load resistance (RL)	≥10K
Plastic material	PBT G30/G15, UL94- V0;
Standards	IEC60950-1:2001
	EN50178:1998
	SJ20790-2000

Dimensions(mm):



PIN definition: 1: + (V_{CC}) 2: - (V_{CC}) 3: M (V_{out}) 4: G(GND)

Remarks:

- During the installation process, on the sensor, close attention should be paid to side core interface is aligned, not forcibly closed.
- 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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