



# DATA SHEET

## Split Core DC Leakage Current Sensor

**PN: CHD\_ST15D**

**IPN=10~1000mA**

### 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:** ( $T_a=25^\circ\text{C}$ ,  $V_c=\pm 15\text{VDC}$ ,  $R_L=10\text{K}\Omega$ )

Parameter Ref	CHD50 ST15D_	CHD100 ST15D_	CHD500 ST15D_	CHD1000 ST15D_
Rated input $I_{pn}$	$\pm 50\text{mA DC}$	$\pm 100\text{mA DC}$	$\pm 500\text{mA DC}$	$\pm 1\text{A DC}$
Measuring range $I_p$	$0\sim\pm 100\text{mA DC}$	$0\sim\pm 200\text{mA DC}$	$0\sim\pm 800\text{mA DC}$	$0\sim\pm 1.5\text{A DC}$
Output voltage $V_o(\text{V})$	DC $\pm 5\text{V}$ , 4-20mA, 0-20mA ( $\pm 3\%$ )			
Supply voltage $V_c(\text{V})$	$(\pm 12\sim\pm 15)\pm 5\%$			
Accuracy $X_G(\%)$	@IPN, $T=25^\circ\text{C}$	$\leq \pm 1$		
Offset voltage $VOE(\text{mV})$	@IP=0, $T=25^\circ\text{C}$	$< \pm 100\text{mV}$		
Temperature variation of $VOE$ $VOT(\text{mV}/^\circ\text{C})$	@IP=0, $-20\sim +60^\circ\text{C}$	$\leq \pm 4.0$		
Linearity error $\varepsilon_r(\%FS)$	$\leq 1.0$			
Anti-interference characteristics	@H=50A DC/m	$< \pm 5\text{mV}$		
Power consumption $I_C(\text{mA})$	$< 20\text{mA}$			
Insulation voltage	@50/60Hz, 1min	2.5kV rms		



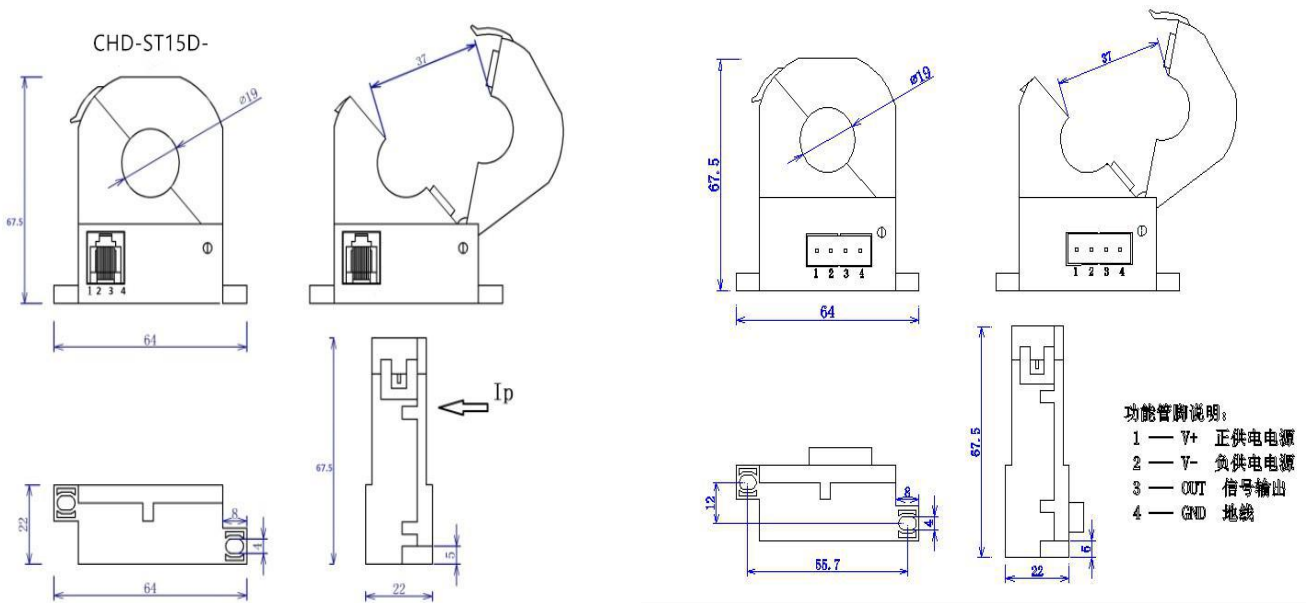
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## General data:

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<sub>CC</sub>) 2: -(V<sub>CC</sub>) 3: M (V<sub>out</sub>) 4: G(GND) OFS: Zero adjustment (5.08 connector)  
 1: +(V<sub>CC</sub>) 2: G(GND) 3: M (V<sub>out</sub>) 4: -(V<sub>CC</sub>) OFS: Zero adjustment (4P RJ11)

## 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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