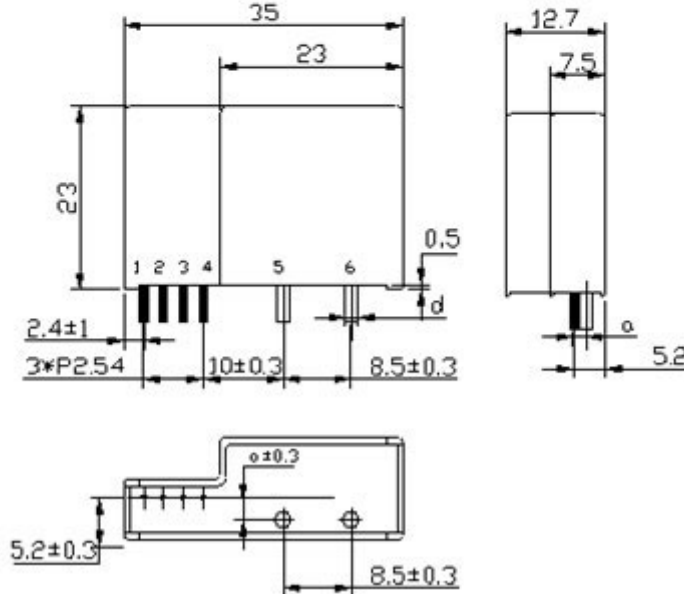


# CS050LX Hall-Effect Current Sensor Series



Outline Drawing ( mm ):



## Product Information

**Introduction:** CS050LX Series is a new generation of open-loop current sensor based on the principle of Hall effect. It is applicable for the measuring of DC, AC, pulse and complex waveform current with galvanic isolation.

**Electric Parameters:** HLX-05ATE HLX-10ATE HLX-15ATE HLX-20ATE HLX-25ATE HLX-30ATE HLX-37.5ATE HDC-50ATE

IPN Nominal Input Current	5	10	15	20	25	30	37.5	50	A
IP Measurement Range of Input Current	13	25	38	50	63	75	95	125	A
VSN Nominal Output Voltage	4							V	
VC Supply Voltage	±12~±15V							DC	V
Ic Current Consumption								10	mA
Vd Insulation Voltage	2 KV/50Hz/1min								
Insulating Strength	500MΩ Min at 500V DC								

<b>Parameters on Dynamic Performance</b>	EI Linearity	±1	%FS
	V0 Residual Voltage	±40	mV
	VOM Hysteresis Error (IPN 0)	±20	mV
	VOT Offset Voltage Warm-up Drift	±1.5	mV/°C
	Tr Response Time	≤3	μs
	F Bandwidth (-3dB)	DC~20	KHz

<b>General Parameters:</b>	TA Operation Temperature	-10~+80	°C
	TS Storage Temperature	-15~+85	°C
	RL Load Resistance	≥10	KΩ

**External Structure:** 1: +15V 2: -15V 3: V0 4: Ground 5: Current Input 6: Current Output  
Please refer to the picture above for detailed parameters

- Features:**
- Interference resistant
  - Convenient PCB installation
  - Small, low energy consumption
  - Low warm-up drift, broad bandwidth
  - Competitive quality/price rate

**Applications:** AC Frequency Conversion, Servo Motors  
Current Monitoring of Electric Welders  
UPS Switching Power Supplies

Automatic Control System  
Power Management System