# **HNC-50LX Series Hall Current Sensor**

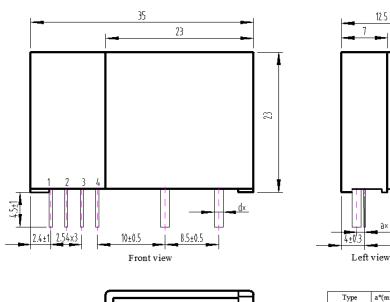
## Introduction

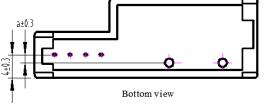
HNC-50LX Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.

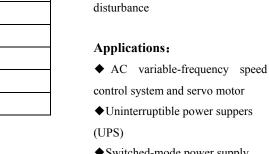
## $\triangle$ Electrical Parameters (Ta=25°C)

Туре						
Parameters	Symbols		HNC-15LX	HNC-25LX	HNC-30LX	HNC-50LX
Nominal measuring current	$I_{PN}$	5A	15A	25A	30A	50A
Linear range	Ip	0~±7.5A	0~±22.5A	0~±37.5A	0~±45A	0~±75A
Turns ratio	$K_{\rm N}$	8:1000	3:1000	2:1000	1:1000	1:1000
Nominal output voltage	$V_{SN}$	$\pm 4V {\pm} 0.04 V (R_L {=} 10 K \ \Omega \ )$				
Zero offset voltage	Vo	≤±0.03V				
Temperature drift of bridge offset	V <sub>OT</sub>	≤±1 mV/℃				
Linear error	$\xi_{\rm L}$	±0.25%				
Response time	Tr	≤1 µ S				
Supply voltage	Vc	±15V±5%				
Isolation voltage	$V_d$	2.5KV/50 or 60Hz/1min				
Power dissipation current	I <sub>C</sub>	(15+K*Ip/1000) mA				
Frequency bandwidth	f	DC~100KH <sub>Z</sub> (-3dB)				
Operating temperature	Та	-25℃~+85℃				
Storage temperature	Ts	-40 °C~+90 °C				

# $\triangle$ Dimension: (mm)







12.5

9×

a\*(mm)

1.3

1.4

1.6

1.6

1.7

1.7

1.7

HNC-05LX

HNC-10LX

HNC-15LX

HNC-20LX

HNC-25LX

HNC-30LX

HNC-50LX

d\*(mm)

Ø0.7

Ø1.0

Ø1.1

Ø1.1

Ø1.4

Ø1.4

Ø1 6

◆ Switched-mode power supply ◆ Power supply for electric

welding machine

Hall Current Sensor

HNC-50LX Zhong Xu Co.,LTD

Features:

Use

Adopt

insulated casing

◆Output voltage signal ◆Low temperature drift ♦ Wide frequency bandwidth ♦ High immunity against external

close-loop

UL94V-0-recognized

transducer based on Hall effect

current

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♦ Battery supply

#### **Instructions for Use:**

◆Connect the wire of transducer in correct way as required.

◆Inputting measured current from input end of transducer, the in-phase voltage signal can be obtained from output end by sampling.

#### **Connection and adjustment:**

- ♦1: +Vc (+15V)
- ◆2: -Vc (-15V)
- ♦3: Output
- **♦**4: 0V
- ♦5: primary In
- ♦6: primary Out

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