

1-phase AC Current Transducer

CE-IJ03-**LH7-0.5

1 Overview

This device is an AC high current electrical isolation transducer, Its input and output are not common ground. The input signal is an AC current, and the output signal is a standard signal of a DC voltage or a DC current. The product has the advantages of high precision, high isolation voltage, low temperature drift, small volume and easy installation. It can be widely used in communication, electric power, railway, industrial control and other fields.

2 Part Number

CE	I	J	0	3	#	#	L	H7	
Brand								installation:	
IJ: AC current								Square shell	
1-phase								Aperture: $\varnothing 37\text{mm}$	
3:0-5VDC,								Power supply:	
5:4-20mA DC,								2: 12V, 3: 15V, 4: 24V	

3 Specifications

Test conditions: auxiliary power: +12 VDC,
room temperature: 25 °C.

Input range: 0~ 1000A

Accuracy: 0.5 class (With reference error)

Operating temperature: -10~60°C

Isolation voltage: 2500 V DC

Load capacity: voltage output $\geq 2\text{k}\Omega$, current output $\leq 250\Omega$

Temperature drift: $\leq 300\text{ppm}/^\circ\text{C}$

Response time: $\leq 300\text{Ms}$

Rated power consumption: <0.5W

Output ripple: $\leq 10\text{mV}$

Frequency range: 45~65Hz (up to 5K, please specify when ordering);

Surge impact immunity:

Power port level $\pm 0.5\text{KV}$ (L-N/2 Ω /integrated wave)

Analog I/O port level $\pm 0.5\text{KV}$ (L-N/40 Ω /integrated wave);

Impulse immunity: input / power supply port $\pm 2\text{KV}$
analog I / O port $\pm 1\text{KV}$;

Input overload capacity: 20 times the nominal value of the measurement current (maximum 500A)

(Applying a repetition of five times a second, interval 300S);

Storage temperature: -55 ~+65°C; humidity: $\leq 95\%$ (no dew).

4 Connections Diagram (figure 1)

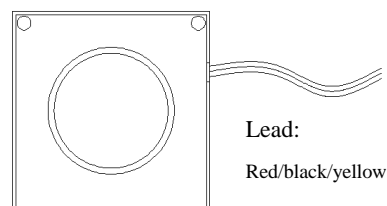


Figure1, reference wiring diagram

Red wire: the positive terminal cable of auxiliary power supply.

Black wire: the negative terminal cable of auxiliary power supply.

Yellow line: signal output connection cable.

Output lead length: 3 meters.

5 Dimensions

Use H7 case structure, the size shown in Figure 2:

H7 case: Length X Width X Height = 64X64X38(mm)

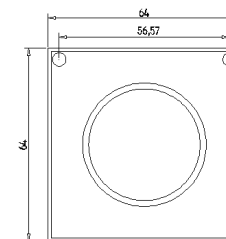


Figure 2, Product Outline

6 Installations

Products use screw installation, the hole position of screw shown in Figure 2

7 Notes

- 1 The output of the product must be a passive load.
- 2 The voltage output cannot be short circuit, the current output cannot be a long time open.
- 3 Apply power to the transducers only after a through checking the input signal and power supply according to connections diagram.
- 4 Verify the part number and description are correct according to the packing list and product labels.
- 5 The transducer should only be used in environment having no static electricity, excessive dust, corrosive or explosive gases.
- 6 If a group of transducers are mounted together, keep a space more than 10mm between adjacent units.
- 7 The transducers have been calibrated before delivery, please contact the company if readjustments are required.
- 8 Transducer for the integrated structure, not removable, should avoid collision and fall. Don't remove and destroy the labels.
- 9 There is no lightning protection circuit inside the transducers. Please pay attention to lightning protection when the input and output feeders of the transducers are exposed to adverse weather conditions.