SHENZHEN SENSOR ELECTRONIC TECHNOLOGY CO,.LTD.

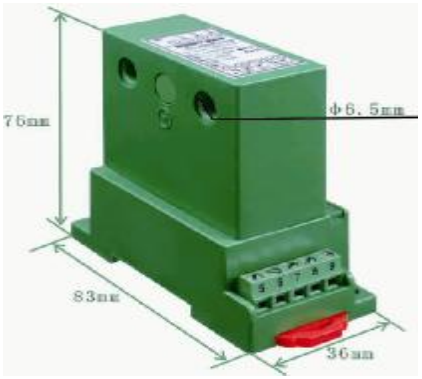
2-phase AC Current Transducer

CE-IJ21-**BS3-*

1 Overview

This device is a two phase AC current electrical isolation transducer. Used the principle of electromagnetic isolation, can be two-way AC current sampling, and isolated output 0 ~ 5V, 0 ~ 20mA or 4 ~ 20mA a variety of standard signals. The input and outputs are electrically isolated from each other, there is a complete linear relationship between them. The product has good precision, high isolation pressure, low temperature drift, small size, easy installation and so on, can be widely used in AC current signal real-time monitoring, communications, electricity, railways, industrial control and other fields.

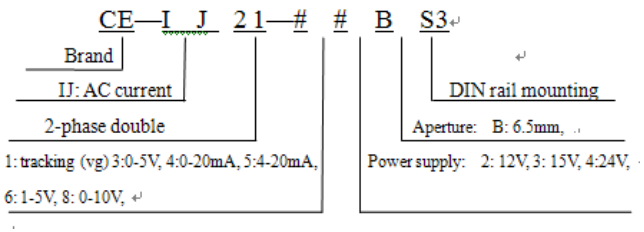
2 Case Style



BS3 case

Figure 1, product appearance

2 Part Number



3 Specifications

Test conditions: auxiliary power: +12 V, room temperature: 25 ℃

Input range: 0~ 0.5~30A AC

Accuracy: 0.2, 0.5(Use the reference error)

Load capacity: voltage output ≥2 kΩ current output ≤300Ω

Temperature drift: 200ppm/℃, 500ppm/℃

Isolation voltage: 2500 V DC

Response time: ≤400 mS

Rated power consumption:≤0.4W、≤0.5W

Output ripple:≤10mV

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

Surge impact immunity:

Power port level ± 0.5KV (L-N/2Ω/integrated wave)

Analog I/O port level ±0.5KV (L-N/40Ω/integrated wave);

Input overload capacity: 20 times and less than 500A, a second 5 times;

Operating temperature: -10~ 60°C; humidity: ≤95% (no dew);

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

4 Connections Diagram (figure 2)

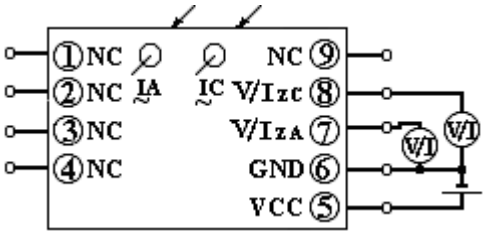


Figure 2, reference wiring diagram

Terminal 5: VCC, the auxiliary power supply positive terminal;

Terminal 6: GND, the auxiliary power supply negative terminal;

Terminal 7: V/IZA, A phase voltage / current output;

Terminal 8: V/IZC, C phase voltage / current output.

Other undefined pins cannot be used by the user.

5 Product Size

The product uses S2 or S3 case structure and its size is as follows: (Figure 2)

S2 case: Long *wide X*high = 36*83*56

S3 case: Long *wide X*high = 36*83*76

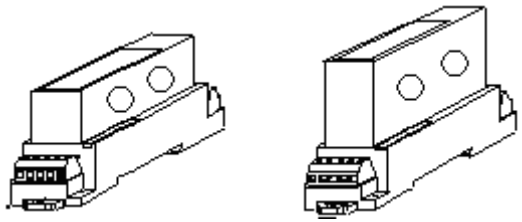


Figure 3, Product Outline

6 Installations

Use DIN35 rail mounting or screw mounting. Terminal space is 5.08 mm, the installation size shown in Figure 4.

http://www.ce-transducer.com
sales@ce-transducer.com
Unit 501,BLDG C, BAOFU Jewelry Garden, 33 BULAN Road, Longgang district,
Shenzhen City, China Post code: 518049

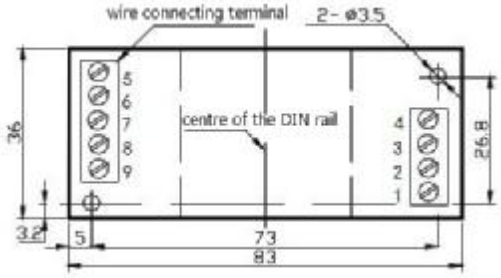


Figure 4, DIN rail or screw mounting plan

7 Notes

1 The power supply voltage must meet the nominal value, in particular, +12 V and +15 V products cannot access +24 V power supply, otherwise it will burn the product.

2 When measuring the voltage or current with the multimeter test pen, the terminal screw should be screwed to the end otherwise it may not measure the voltage or current output value.

3 Verify the part number and description are correct according to the packing list and product labels.

4 Apply power to the transducers only after a through checking the input signal and power supply according to connections diagram.

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, and should avoid collision and fall. Do not remove and destroy the product 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.