

## Two phase AC voltage transducer

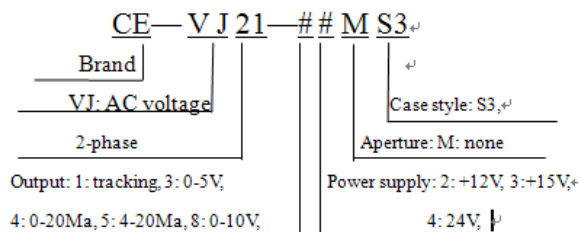
### Instructions

#### CE-VJ21-\*\*MS3-\*

### 1 Overview

This device is a 2-elements AC voltage isolation transducer. Using the principle of electromagnetic isolation to sampling the 2-way AC voltage and isolated output 0 ~ 5V, 0 ~ 20mA or 4 ~ 20mA a variety of standard signals, between the input and output achieve electrical isolation, the output signal and the input signal have a complete linear relationship. The product has the advantages on good precision, high isolation pressure, low temperature drift, small size, easy installation and so on. It can widely used in AC voltage signal real-time detection and monitoring, communications, electricity, railways, industrial control and other fields.

### 2 Part Number



### 3 Specifications

Test conditions: auxiliary power: +12 V, room temperature: 25°C;

Input Range: 0~1~500V;

Accuracy: 0.2, 0.5 (With reference error);

Load capacity: voltage output $\geq$ 2 K $\Omega$ ,  
current output $\leq$ 300 $\Omega$ ;

Temperature drift: 0.2 class 200ppm/°C,  
0.5 class 500ppm/°C

Isolation voltage: 2500 V DC;

Response time:  $\leq$ 400 mS;

Rated power consumption: voltage output $\leq$ 300mW,

Current output (4~20mA) $\leq$ 450mW;

Output ripple:  $\leq$ 10mV;

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

Surge immunity:

Power port level  $\pm$  0.5KV (L-N/2 $\Omega$ /integrated wave),

Analog I / O port. $\pm$  0.5KV (L-N/40 $\Omega$ / integrated wave);

Impulse immunity: input / power port  $\pm$  2KV, analog I / O port  $\pm$  1KV;

Input overload capacity: 2 times the rated voltage input value, one second 10 times;

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

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

### 4 Connections Diagram

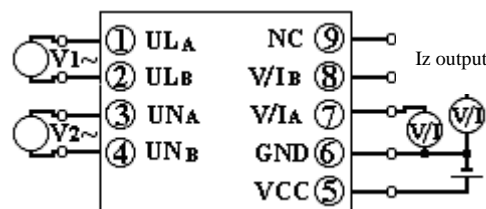


Figure 1 Product reference wiring diagram

Terminal 1: ULA, A road voltage input ;

Terminal 2: ULB, B Road voltage input;

Terminal 3: UNA, A Road, the neutral input;

Terminal 4: UNB, B Road, the neutral line input;

Terminal 5: VCC, the auxiliary power positive;

Terminal 6: GND, the auxiliary power supply negative;

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

Terminal 8: V / Ib, B phase voltage / current output;

Other undefined pins cannot be used by the user.

### 5 Product Dimensions

The product uses S3 shape structure, and its size is as follows (Figure 2).

S3 case: length X width X high = 36X83X76

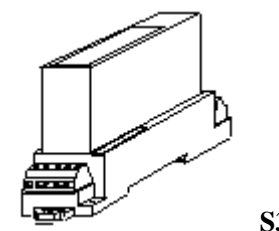


Figure 2 Product Outline

### 6 Installations

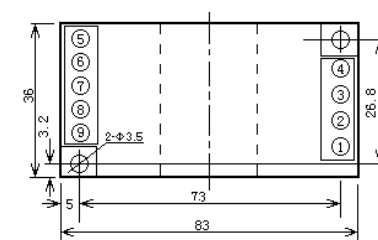


Figure 3 DIN rail or screw mounting plan

DIN35 rail mounting or screw mounting, terminal spacing: 5.08 mm, the installation size as shown in Figure 3.

### 7Notes

1The 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 out the product;

2 When measuring the voltage or current with the multi meter pen, please screw the terminal screw in the end, otherwise it may not measure the voltage or current output value.

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

4 The transducer should only be used in environment having no static electricity, excessive dust, corrosive or explosive gases.

5 If a group of transducers are mounted together, keep a space more than 10mm between adjacent units.

6 The transducers have been calibrated before delivery, please contact the company if readjustments are required.

7 Transducer for the integrated structure, not removable, and should avoid collision and fall. Do not remove and destroy the product labels.

8 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.