

Single phase DC current transducer

CE-IZ02-**-MH2*-*

1 Overview

This device is a kind of DC current isolation transducer, adopts principle of electromagnetic isolation, can sample the DC current, and isolated output 0-5V, 0-20mA or 4-20mA standard signals, electrical isolation between input and output, and completely linear relationship between output signal and input signal. This product with high precision, rapid response, high voltage isolation, low temperature drift, wide working temperature range, easy for installation advantages, comply with international standards. It can be widely used in real-time monitoring of DC voltage signals, field data collection in computer scene, industrial control, PLC measurement and control, and a variety of automatic control system.

2 Product overall dimensions

MH2: Length×Width×Height=44mm×28mm×41mm



Figure1 Product graphics

3. Part Number

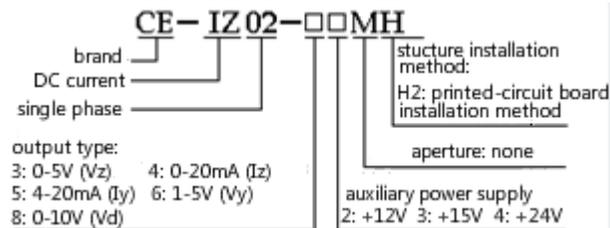


Figure 2, Product model selection table

4 Specifications

- * Test conditions: auxiliary power supply: +12V
room temperature: 25℃.
- * Input range: current 0~0.1mA~5A (input≥0.1A, need to connect a external diverter)
- * Output: 0-20mA DC OC frequency signal output
- * Accuracy: class 0.2, class 0.5 (adopts default error)
- * Auxiliary power supply: 12VDC, 15VDC, 24VDC optional
- * Temperature drift: class 0.2 = 200ppm/℃,
class 0.5= 500ppm/℃
- * Isolation voltage: 2500 V DC
- * Load capacity: Load ≥2KΩ (voltage output)
Load ≤300Ω (current output)
- * Response time: ≤15 mS,
- * Rated power consumption: voltage output ≤400mW,
Current output (4~20mA) ≤800mW;
- * Output ripple: ≤10mV
- * Frequency range: none
- * Surge impact immunity:

Power port three-level 2000V

(L-N/2Ω/ integrated wave)

Analog I/O port three-level 2000V

(L-N/40Ω/integrated wave);

- * Impulse immunity: none
- * Static power consumption: voltage output ≤50m,
current output (4~20mA) ≤120mW;
- * Input overload capacity: 2 times rated input value, 10
times per second;
- * Operating condition: temperature: -10~60℃;
- * Storage condition: -40~+70℃

5 Connections Diagram

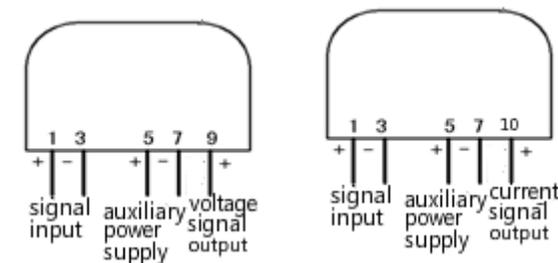


Figure 3, product connection diagram

- Pin 1: signal input positive terminal;
- Pin 3: signal input negative terminal;
- Pin 5: auxiliary power supply positive terminal;
- Pin 7: auxiliary power supply negative terminal;
- Pin 9: voltage output terminal;
- Pin 10: current output terminal;

6 Mounting method

Adopts ping welding mounting method, $\Phi 3.4$ hole is the screw hole for soleplate fixing.

Pin is square (0.9mm x 0.9mm), installation dimension as shown in figure 4

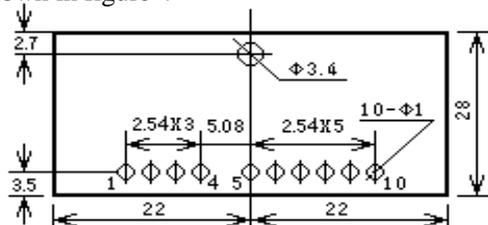


Figure 4, Pin welding or screw installation plan

7. Notes

7.1 The auxiliary power voltage must meet the nominal value +12V and +15V, +24V power supply is forbidden, otherwise the product will be burned out.

7.2 Apply power to the transducers only after a through checking the signal input, output and power supply according to corresponding connections diagram of the product model.

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

7.4 The transducer's zero point and accuracy have been calibrated before delivery, please do not calibrate casually.

If user need to calibrate, please contact with our company.

7.5 Integrated structure of the transducer, non-removable, and should avoid collision and fall, don't modify or tear off any labels of the product.

7.6 Please adopts lightning protection when the input and output feeders of the transducers are exposed to adverse weather conditions.