

Single phase DC current transducer

CE-IZ01-**-MH2*.*

1 Overview

This device is a kind of DC current isolation transducer, adopts principle of electromagnetic/treble isolation, can sample the DC current, and isolated output 0-5V, 0-20mA or 4-20mA standard signals, electrical isolation between input and output, between power supply voltage and input 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 Case Style

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



Figure1 product case style

3 Part Number

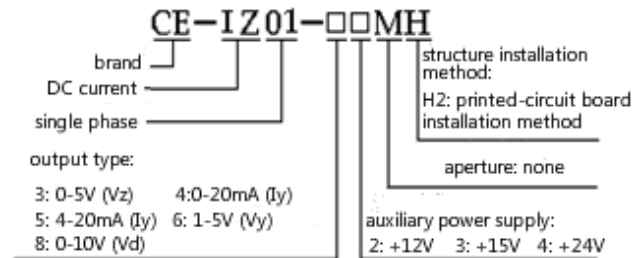


Figure 2, product model selection table

4 Specifications

- * Test conditions: auxiliary power supply: +12V
room temperature: 25℃;
- * Input range: current 0~1mA~5A (input≥0.1A, need to connect a external diverter);
- * Output: 0-5VDC, 0-10VDC, 0-20mADC, 4-20mADC;
- * Auxiliary power supply: 12VDC, 15VDC, 24VDC;
- * Accuracy: class 0.2, class 0.5 (adopts default error);
- * Operating condition: temperature: 0~50℃;
- * Temperature drift: class 0.2 = 200ppm/℃,

class 0.5= 500ppm/℃;

- * Isolation voltage: ≤ 2500 V DC;
- * Load capacity: Load ≥2KΩ (voltage output)
Load≤250Ω (current output);
- * Response time: ≤ 30 mS;
- * Rated power consumption: <1.0W(+12V) ,
<1.2W(+24V);

- * Input overload capacity: 2 times rated input value,
10 times per second;
- * 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 2000
(L-N/40Ω/integrated wave);
- * Impulse immunity: none;
- * Storage condition:-40~+70℃

5 Connection Diagram

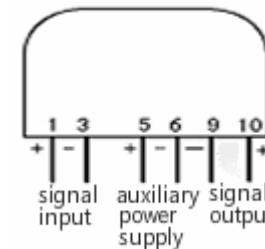


Figure 3, product connection diagram

Pin 1: signal input positive terminal;
Pin 3: signal input negative terminal;
Pin 5: auxiliary power supply positive terminal;
Pin 6: auxiliary power supply terminal;
Pin 9: signal output negative terminal;
Pin 10: signal output positive terminal;

6 Mounting method

Adopts pin 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:

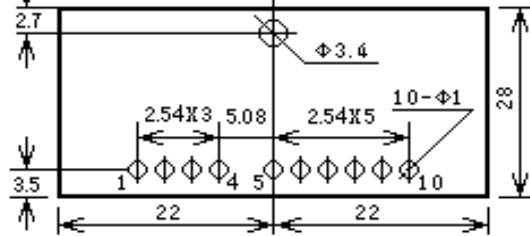


Figure4 Pin welding or screw installation plan

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 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.