Current Transducer/Sensor

C31 1-way DC Current Transducer

FEATURES

Hall open loop operation principle, can measure current in any waveform, the output terminal can reflect the waveforms parameters of input current;
Controlled by temperature compensation circuit, measure accurately;
Current row perforation input, plug terminal, screw fastening plane mounting;
Split Core measuring head, can install and measure with electricity;
It was widely applied to all kinds of industrial current online detection system;
Dimension(mm):60(L)×16(W)×61(H) aperture:21mm

ELECTRICAL DATA

Standards.....IEC688:1992, QB/LF2007-1
Input Range.....0~500A can choose 0~200A, 0~500A etc
Accuracy Grade.....≤1.0%F.S.
Linearity Degree..... .....better than 0.2%
Response Time.....≤10uS
Frequency Characteristics.....0~10KHZ
Offset Voltage.....≤20mV
Temperature Characteristics....≤150PPM/℃(0~50℃)
Power Consumption.....≤30mA
Isolation Withstand Voltage.....AC2.0KV/min*1mA among input/output/case
Overload Capacity.....2 times current continuous, 30 times 1 second
Flame Retardancy.....UL94-V0
Working Environment.....-10℃~80℃, 20%~90% without condensation
Storage Environment.....-25℃~85℃, 20%~95% without condensation

MODEL

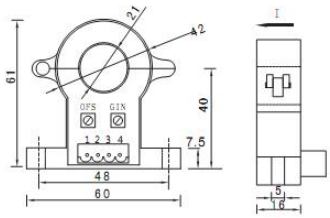
LF-DI12-□□C31-1.0/□
A B C

Model selection1: LF-DI12-15C31-1.0/0~500A
Explanation: this product is a 0~500A input range, 0~5V tracking output, ±12V power supply, C31style 1-way DC current transducer.

MODEL REMARKS

A. Output range:
1: 0~5V tracking output
1a: 0~4V tracking output
3: 0~5V
4: 0~20mA
5: 4~20mA
T: Special output
B. Power supply:
2:12V±10%
3:15V±10%
4:24V±15%
5:±12V±10%
6:±15V±10%
C. Current input range

DIMENSION DIAGRAM



C31

CONNECTION DIAGRAM

OFS:Zero
GIN :Gain

Note: When the transducer leave factory, the output zero/gain has adjusted well. Please don't adjust it randomly in no special situation.

1"+": positive power supply's positive wiring end
2"-" : negative power supply's positive wiring end
3"M":measuring output end
4"G":power and output's common ground end
Note: when single power supply works, 2 is empty.

NOTE

1. Notice the auxiliary power supply information on the label, make sure power supply's degree and polarity are correct before power on.
2. When the transducer used in a strong magnetic environment, the shelter of the input wire, output signal should be as short as possible.
3. This product use the flame retardant ABS plastic case(its utmost temperature is +85℃), please don't bake the case in high temperature, or it will be distorted, influence product's performance.

Xiamen ZT Technology Co., Limited
http://www.transducersgroup.com
sales@transducersgroup.com
886-0592-6220649