

Current Transducer/Sensor



BJ31 AC Current Transducer

FEATURES

- ***Working principle:** New electromagnetic isolation
- ***Usage:** Used to measure 3phase AC current, especially for power frequency 50 Hz sine wave 3phase AC current
- ***Advantage:** The best performance/price ratio, power loss and small volume, light weight, easy installation, perforated input, without the insertion loss.
- ***Application:** Widely used for measuring AC current
- ***Dimension (mm):** BJ31: 120(L) ×56.5(W) ×50 (H), aperture: 20mm

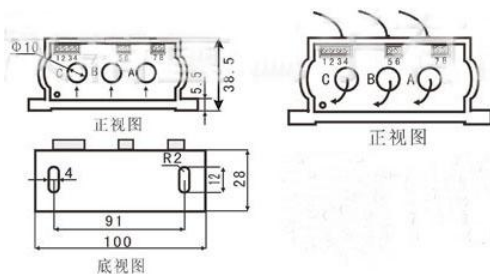
MODEL

LF- AI12-   BJ31-0.5/ 
A B C

Model selection1:LF- AI12-33 BJ31-1.0/10A

Explanation: this product is a 10A input range, 0-5V, 15V power supply, BJ31 style AC Current Transducer

DIMENSION DIAGRAM



ELECTRICAL DATA

- *Input Range: 0.5A~150A can choose 100A, 15A etc
- *Accuracy Grade: $\leq 0.5\%$.F.S
- *Linearity Degree: better than 0.1%
- *Response Time: $\leq 250\text{ms}$
- *Offset Voltage: $\leq 10\text{mV}$
- *Frequency Range: 20~5 KHz
- *Temperature Characteristics: $\leq 100\text{PPM}/^\circ\text{C}$ (0~50 $^\circ\text{C}$)
- *Power Consumption: $\leq 5\text{mA}$
- *Load: Voltage output: 5mA, Current output: 6V
- *Over Load: 31 times of input
- *Isolation Withstanding Voltage: AC3.0KV/min*1mA between input /output/ power
- *Flame Retardancy: UL94-V0
- *Working Environment: -10 $^\circ\text{C}$ ~70,
20%~90% without condensation
- *Storage Environment: -40 $^\circ\text{C}$ ~85,
-20%~95% without condensation

MODEL REMARKS

A---Output	B---Power supply
1. 0~10V	
2. 0~4V	2:12V $\pm 10\%$
3. 0~5V	4:24V $\pm 15\%$
4. 0~20mA	
5. 4~20mA	
T: Special output	C---Current input range

CONNECTION DIAGRAM

1. Power+
2. GND
3. A phase Output +
4. GND
5. B phase Output +
6. GND
7. C phase Output +
8. GND



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