

BA10-AI/I(A) current sensor

Installation instruction V1.0

DECLARATION

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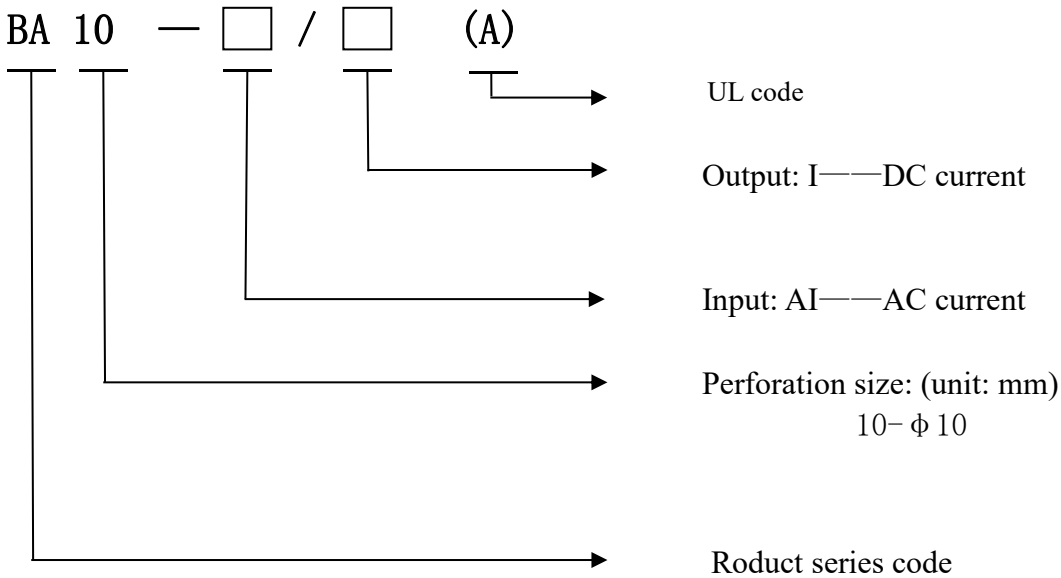
CONTENTS

1 General.....	1
2 Type explanation.....	1
3 Product specification.....	1
4 Shape and installation.....	2
5 Connection mode.....	2
6 Order example.....	3

1 General

BA10-AI/I current sensor uses electromagnetic induction principle to measure AC current in power grid in real time, and adopts constant current and linear compensation technology to isolate and convert it into standard DC signal output. DC24V or 12V safe voltage power supply can be widely used in the field of industrial automation.

2 Type explanation



3 Product specification

Technical parameter		Value
Accuracy class		0.5
Input	Nominal value	Current AC 8A, 25A, 50A, etc. AC 0~ (8~50) A
	Overload	Duration 1.2 times, instantaneous current 10 times /1S.
	Absorbing power	≤1VA
	Frequency response	25Hz~800Hz, especially suitable for power frequency occasions.
Output	Nominal value	DC4~20mA, or 0~20mA
	Load resistance	≤500 Ω
Response time		≤350ms
Power Supply	Voltage	DC12V or 24V
	Power consumption	≤1W
Insulance		>100M Ω
Isolation voltage		2.0KV/1min,50Hz between input/output and power supply, 50hz
Temperature coefficient		≤400ppm/°C
Environment	Temperature	Work:-10°C ~+55°C Storage:-25°C ~+70°C
	Humidity	≤93%RH, no condensation and no corrosive gas.
	Altitude	≤2000m
Installation mode		TS35 guide rail, or screw it to the cabinet.

4 Shape and installation

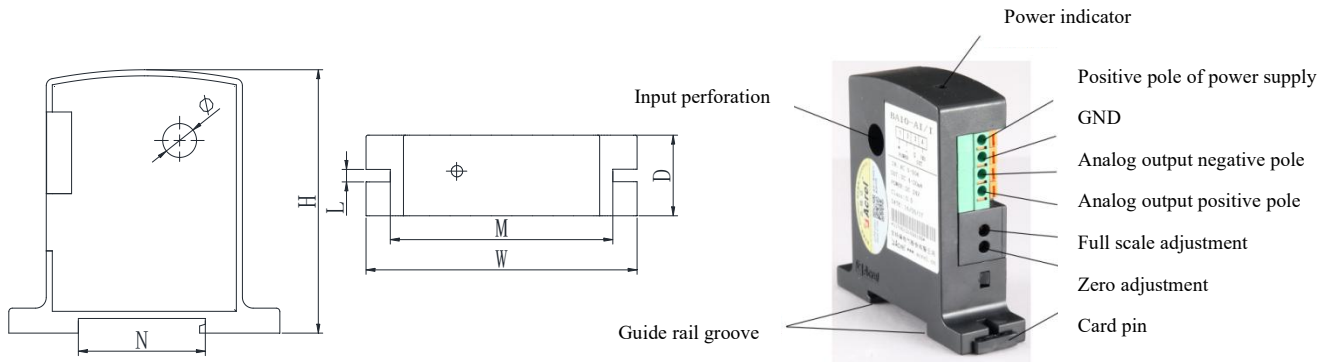
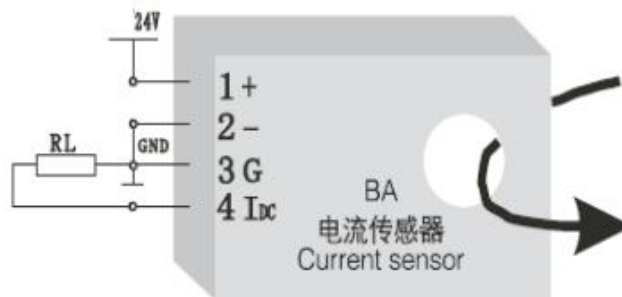


图 1

Overall dimension (mm)			Installation dimension (mm)			Perforation size (mm)	Tolerance	Graph
W	H	D	M	N	L			
76	74	22.5	62.5	35	3.5	9.5	±1	Figure1

5 Connection mode



1 — + Positive pole of power supply (note that the positive pole of power supply cannot be connected to the ground)

2 — - Power supply ground

3 — G (current output negative electrode, which can be grounded with power supply)

4 — I_{dc} (positive current output)

Cable is a perforated input.

Note:

(1) Spring-fixed terminals are used for instrument wiring, and shielded wires with cross-sectional area of 0.75mm^2 are recommended for power supply and output.

(2) The specific wiring shall be subject to the wiring diagram on the physical shell.

6 Order example

Example 1 BA10-AI/I(A) AC current sensor

Auxiliary power supply: DC24V

Input: AC 0 ~ 8A

Output: DC4-20mA

Accuracy: 0.5

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