HALL EFFECT
CURRENT ANALOG TRANSDUCER

CE-H Series

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Introduction

Shenzhen Sensor Electronic Technology Co., Ltd specializes in research, development, and manufacturing of electrical transducers. Our advanced test instrumentation and engineering capabilities provide a most favorable environment for transducer manufacturing. Our quality and inspection departments are among the most advanced in China. The output of our production facility is over one hundred thousand units annually.

The most important aspect of our production is "Quality". Our products are manufactured and certified to the 2000 quality standards of ISO 9001. The transducers have been approved for safety by numerous agencies such as UL, CUL, CME and CE. The US Council of International Quality Authentication has recommended us for our high quality standards. Shenzhen Sensors, Ltd. is the only manufacture of electrical transducers in China to have obtained all of these certifications.

Our corporate psychology of Research & Development and efficient manufacturing has made us predominant worldwide in the electrical transducer market. Our diverse lines of products are used for signal isolation and modulation, analog and digital communication in standard and smart instrumentation networks. The complete line consists of nearly one hundred sub-categories with numerous standard and custom versions available in each of these sub-categories.

The CE Series of products is used for monitoring electrical parameters of current, voltage, power and frequency. Technologies such as electrical induction, Hall Effect and magnetic modulation are used in our product line for monitoring alternating and direct current systems.

The CE Series of products consists of three main categories.

- CE-T series for providing analog output signal such as 0-5 Vdc and 4-20 mA
- CE-A series for "Intelligent" network communication.
- CE-H series for Hall Effect transducer.

The principal characteristics of our products are:

- Micro miniaturization, utilizing surface mount technology.
- Modularization, each function provided by a unique PCB.
- High reliability, all components are high-rel, precision grade.
- Low power consumption, high efficiency regulators and dc-dc power supplies.
- High dielectrics withstand voltage, designed into each product.
- Single side input power requirement, for easy installation.

High quality, reliability and low price have made our transducers most efficient for application in the areas of communication, electric power, automotive energy production, and industrial control. We have received high praise from thousands of customers. We currently provide our products to 7 countries in areas of America, Europe and Asia.

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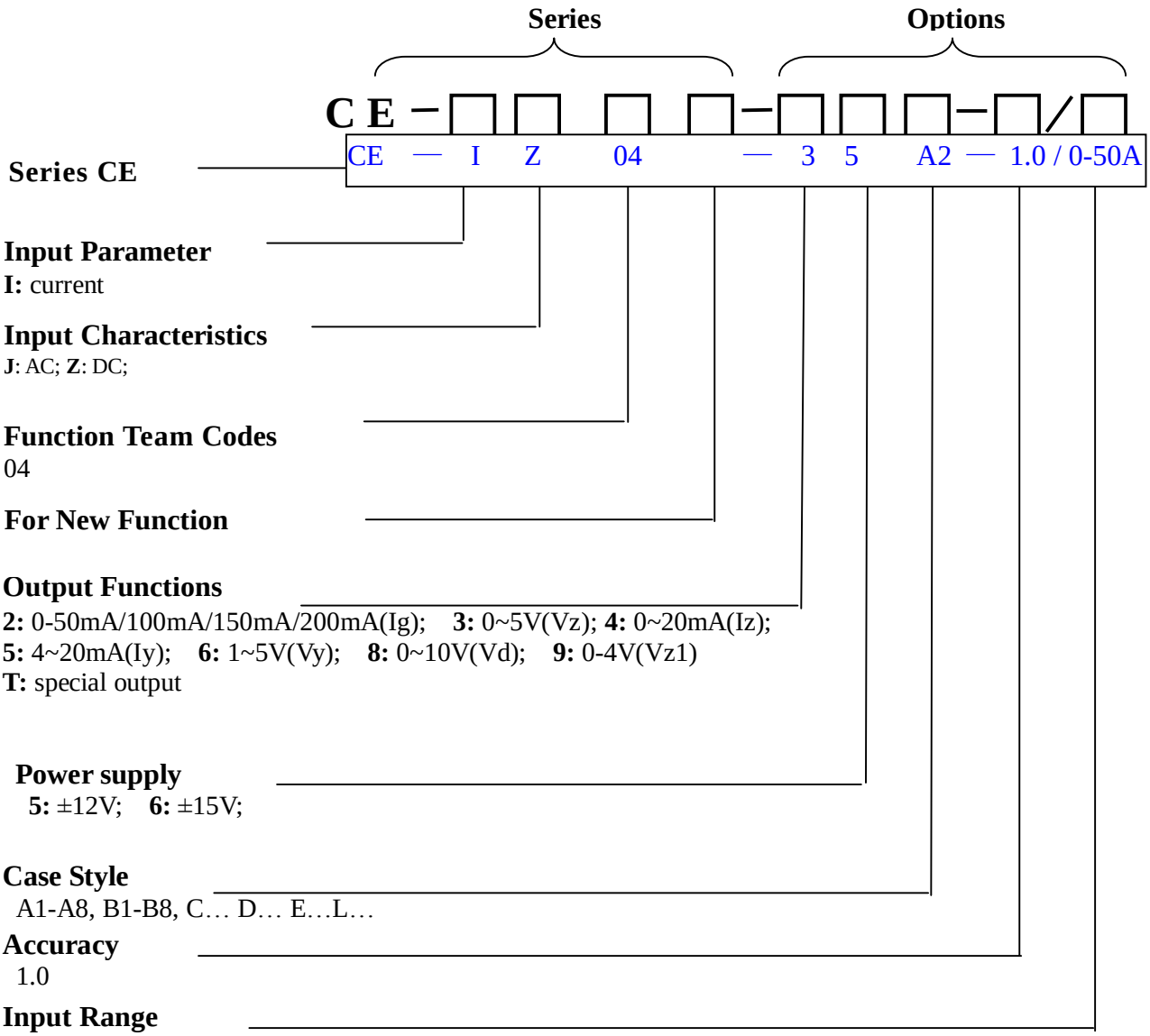
Chapter 1. Part Number Selection Guide



Typical Example

CE-IZ04-35A2-1.0/0~50A: DC current transducer, case: A2, input current: DC 0~50A, output: 0~5V, power supply: ±12V, accuracy: 1.0%.

Chapter 2. Product Overview

2.1 Characteristic of the product

Hall Effect current transducer series CE-H provides strong electrical isolation between the output of the transducer (secondary circuit) and the current carrying conductor (primary circuit with high current). The output of the transducer reflects the real wave of DC, AC and pulsant currents of the primary circuit. This series combines many advantages of fast response, strong overload capability, good temperature independence, consecutive adjustable output, good stability, etc.

2.2 Output codes

LIST OF DEFINITION OF OUTPUT CODES OF SERIES CE-H PRODUCT

CODE	SYMBOL	DEFINITION OF CODE	DESCRIPTION
1	Vg	OUTPUT TRACING VOLTAGE	0~5V (AC, RMS). Suitable for AC or peak value sampling system with high accuracy and fast response
2	Ig	OUTPUT TRACING CURRENT	Output tracing AC current. Suitable for AC or peak value sampling system with fast response.
3	Vz	OUTPUT OF DC VOLTAGE	0~5V (DC). Available for connecting directly to A/D converter, digital panel and display instruments.
4	Iz	OUTPUT OF DC CURRENT	0~20mA (DC). Suitable for transmission of remote signal with strong capability of anti-jamming.
5	Iy	OUTPUT OF DC CURRENT	4~20mA (DC). Suitable for transmission of remote signal with strong capability of anti-jamming.
6	Vy	OUTPUT OF DC VOLTAGE	1~5V (DC). Available for connecting directly to A/D converter, digital panel and indicator.
8	Vd	OUTPUT OF DC VOLTAGE	0~10V (DC). Available for connecting directly to digital panel and indicator.(power supply≥15V)
9	Vz1	OUTPUT OF DC VOLTAGE	0~4V (DC). Available for connecting directly to A/D converter, digital panel and indicator.
T	T	SPECIAL OUTPUT CODE	Reserved for other output.

Chapter 3. Product Tree

3.1 Hall Effect DC current analog transducer series CE-IZ04 Case Style A

3.1.1 List of options

SERIES	RANGE OF OUTPUT	POWER SUPPLY	WINDOW (mm)	CASE STYLE	INPUT RANGE
CE-IZ04-□□A	0-4V 0-5V	±12V or ±15V	20x10	A1	0-50~600A
			Φ23	A2	0-30~500A
			21x10	A3	0-50~600A
	0-4V, 0-5V 0-20mA, 4-20mA		33x16	A4	0-100~800A
			33x11	A5	0-100~500A
	0-4V 0-5V		Φ16	A6	0-50~400A
			Φ20.2	A7	0-100~500A
			Φ20.4	A8	0-100~400A

3.1.2 General specifications

LINEARITY RANGE	1.5 times of the maximum value of measuring range	RESPONSE TIME	10μS
OVERLOAD CAPABILITY	20 times of the maximum value of measuring range	CURRENT CONSUMPTION	≤25mA
ACCURACY	1%	ISOLATION	3KVRMS/50Hz/30s
OFFSET VOLTAGE	±25mV	OPERATING TEMPERATURE RANGE	-10℃~+80℃
HYSTERESIS ERROR	±10mV	STORAGE TEMPERATURE RANGE	-25℃~85℃
TEMPERATURE DRIFT	≤250ppm/℃	FIRE RETARDANCY	UL94-V0

3.1.3 Cases of series A

Application Characteristic: Can be used for measuring DC, AC, pulsant currents, etc. The output of the transducer reflects the real wave of the measured current.

Characteristic of Products: Small size, light in weight, less power consumption, window structure, electrically isolating the output of the transducer from the primary current carrying conductor, no insertion loss.

Application: Frequency conversion speed adjusting equipment, various power supply, UPS, electric welding machine, transformer substation, digital control machine tool, electrolyzing equipment, electroplating equipment, electric powered locomotive, microcomputer monitoring, electric power grid monitoring.

Connection: The current carrying cable must pass through the window. The phase of output is the same as that of the current passing the window in the direction of the arrow indicated on the case.

Wiring of Terminals for case style A1, A2, A3, A4, A5, A6, A7, A8:

1. +15V/+12V Power Supply
2. -15V/-12V Power Supply
3. Output
4. Ground
5. NC(only A6)

Notes:

1. Connect the terminals of power supply, outputs respectively and correctly, never make wrong connection.

2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
3. The best accuracy can be achieved when the window is fully filled with bus-bar (current carrying conductor).
4. The in-phase output can be obtained when the direction of current of current carrying conductor is the same as the direction of arrow marked on the transducer case.

3.2 Hall Effect DC current analog transducer series CE-IZ04 case style B

3.2.1 List of options

PART NUMBER	RANGE OF OUTPUT	POWER SUPPLY	WINDOW (mm)	CASE STYLE	INPUT RANGE
CE-IZ04-□□B	0-4V 0-5V	±12V or ±15V	51x12	B1	0-300~1500A
			64x16	B2	0-300~1500A
			104x22	B3	0-600~2500A
			52x22	B4	0-300~1500A
			86x26	B5	0-600~1500A
			103x36	B6	0-800~2500A
			41x11	B7	0-100~800A
			85x27	B8	0-600~2500A

3.2.2 General specifications

LINEARITY RANGE	1.5 times of the maximum value of measuring range	RESPONSE TIME	10μS
OVERLOAD CAPABILITY	20 times of the maximum value of measuring range	CURRENT CONSUMPTION	≤25mA
ACCURACY	1%	ISOLATION	3KVRMS/50Hz/30s
OFFSET VOLTAGE	±20mV	OPERATING TEMPERATURE RANGE	-10℃~+80℃
HYSTERESIS ERROR	±10mV	STORAGE TEMPERATURE RANGE	-25℃~85℃
TEMPERATURE DRIFT	≤500ppm/℃	FIRE RETARDANCY	UL94-V0

3.2.3 Cases of series B

Application Characteristic: Can be used for measuring DC, AC, pulsant currents etc. The output of the transducer reflects the real wave of the measured current.

Characteristic of Products: Small size, light in weight, less power consumption, window structure, electrically isolating the output of the transducer from the primary current carrying conductor, no insertion loss.

Application: Frequency conversion speed adjusting equipment, various power supply, UPS, electric welding machine, transformer substation, digital control machine tool, electrolyzing equipment, electroplating equipment, electric powered locomotive, microcomputer monitoring, electric power grid monitoring.

Connection: The current carrying cable must pass through the window. The phase of output is the

same as that of the current passing the window in the direction of the arrow indicated on the transducer case.

Wiring of Terminals for case style B1, B2, B3, B4, B5, B6, B7:

1. +15V/+12V Power Supply
2. 15V/-12V Power Supply
3. Output
4. Ground

Wiring of Terminals for case style B8:

1. +15V/+12V Power Supply
2. Ground
3. 15V/-12V Power Supply
4. Output
5. Inverted Output

Notes:

1. Connect the terminals of power supply, outputs respectively and correctly, never make wrong connection.
2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
3. The best accuracy can be achieved when the window is fully filled with bus-bar (current carrying conductor).
4. The in-phase output can be obtained when the direction of current of current carrying conductor is the same as the direction of arrow marked on the transducer case.

3.3 Hall Effect DC current analog transducer series CE-IZ04 case style C

3.3.1 List of options

SERIES	RANGE OF OUTPUT	POWER SUPPLY	WINDOW (mm)	CASE STYLE	INPUT RANGE
CE-IZ04-□□C	0-4V, 0-5V	±12V or ±15V	Φ42	C1	0-200~2000A
	0-4V 0-5V 0-20mA 4-20mA		62x15	C2	0-300~1000A
			85x15	C3	0-300~2500A
			125x26	C4	0-800~6000A
			150x40	C5	0-800~6000A
	0-4V 0-5V		Φ22	C8	50~500A
			Φ35	C9	0-100~800A
	±75mV		104x20	C10	0-±1000~±3000A
	0-4V 0-5V		182x70	C11	0-4000~10000A
			41x11	C12	0-200~800A
	0-4V 0-5V 0-20mA 4-20mA		85x27	C13	0-600~2500A

3.3.2 General specifications

LINEARITY RANGE	1.5 times of the maximum value of measuring range	RESPONSE TIME	10μS
OVERLOAD CAPABILITY	20 times of the maximum value of measuring range	CURRENT CONSUMPTION	≤25mA
ACCURACY	1%	ISOLATION	3KVRMS/50Hz/30s
OFFSET VOLTAGE	±20mV	OPERATING TEMPERATURE RANGE	-10℃~+80℃
HYSTERESIS ERROR	±10mV	STORAGE TEMPERATURE RANGE	-25℃~85℃
TEMPERATURE DRIFT	≤500ppm/℃	FIRE RETARDANCY	UL94-V0

3.3.3 Cases of series C

Application Characteristic: Can be used for measuring DC, AC, pulsant currents, etc. The output of the transducer reflects the real wave of the measured current.

Characteristic of Products: Small size, light in weight, less power consumption, window structure, electrically isolating the output of the transducer from the primary current carrying conductor, no insertion loss.

Application: Frequency conversion speed adjusting equipment, various power supply, UPS, electric welding machine, transformer substation, digital control machine tool, electrolyzing equipment, electroplating equipment, electric powered locomotive, microcomputer monitoring, electric power grid monitoring.

Connection: The current carrying cable must pass through the window. The phase of output is the same as that of the current passing the window in the direction of the arrow indicated on the case.

Wiring of Terminals for case style C1, C2, C3, C4, C5, C8, C9, C12，C13:

1. +15V/+12V Power Supply
2. -15V/-12V Power Supply
3. Output
4. Ground

Wiring of Terminals for case style C10:

1. +12V Power Supply
2. Ground
3. +Output
4. -Output

Wiring of Terminals for case style C11:

1. +15V/+12V Power Supply
2. Output
3. Ground
4. -15V/-12V Power Supply

Wiring of Terminals for case style C13:

1. +15V/+12V Power Supply
2. Ground
3. -15V/-12V Power Supply

4. Ground
5. Output

Notes:

1. Connect the terminals of power supply, outputs respectively and correctly, never make wrong connection.
2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
3. The best accuracy can be achieved when the window is fully filled with bus-bar (current carrying conductor).
4. The in-phase output can be obtained when the direction of current of current carrying conductor is the same as the direction of arrow marked on the transducer case

3.4 Hall Effect DC current analog transducer series CE-IZ04 case style D

3.4.1 List of options

SERIES	RANGE OF OUTPUT	POWER SUPPLY	WINDOW (mm)	CASE STYLE	INPUT RANGE
CE-IZ04-□□D	0-200mA	±12V or ±15V	Φ20	D2	0-400A
	0-150mA		Φ20.5	D6	0-300A
	0-100mA		Φ36	D7	0-500A

3.4.2 General specifications

LINEARITY RANGE	1.5 times of the maximum value of measuring range	RESPONSE TIME	1μS
OVERLOAD CAPABILITY	2 times of the maximum value of measuring range	CURRENT CONSUMPTION	≤25mA + output current
ACCURACY	0.5%	ISOLATION	3KVRMS/50Hz/min
OFFSET CURRENT	±0.2mA	OPERATING TEMPERATURE RANGE	-10℃~+80℃
HYSTERESIS ERROR	±0.2mA	STORAGE TEMPERATURE RANGE	-25℃~85℃
TEMPERATURE DRIFT	≤200ppm/℃	FIRE RETARDANCY	UL94-V0

Gauge Resistor:

D2:

±12V	±400A	0～50Ω
	±500A	0～40Ω
±15V	±400A	0～60Ω
	±500A	0～50Ω

D7:

±15V	±500A	0～60Ω
	±800A	0～ 9Ω
±18V	±500A	0～90Ω
	±800A	0～28Ω

D6

±12V	±100A	0～136Ω	±200A	0～50Ω	±300A	0～30Ω
	±150A	0～ 74Ω	±300A	0～26Ω	±500A	0～ 7Ω
±15V	±100A	0～175Ω	±200A	0～73Ω	±300A	0～43Ω
	±150A	0～106Ω	±300A	0～40Ω	±500A	0～17Ω

3.4.3 Cases of series D

Application Characteristic: Can be used for measuring DC, AC, pulsant currents, etc. The output of the transducer reflects the real wave of the measured current.

Characteristic of Products: Small size, light in weight, less power consumption, window structure, electrically isolating the output of the transducer from the primary current carrying conductor, no insertion loss.

Application: Frequency conversion speed adjusting equipment, various power supply, UPS, electric welding machine, transformer substation, digital control machine tool, electrolyzing equipment, electroplating equipment, electric powered locomotive, microcomputer monitoring, electric power grid monitoring.

Connection: The current carrying cable must pass through the window. The phase of output is the same as that of the current passing the window in the direction of the arrow indicated on the case.

Wiring of Terminals for case style D2:

+: +15V/+12V Power Supply
M: Output
-: -15V/-12V Power Supply

Wiring of Terminals for case style D6, D7:

1. +15V/+12V Power Supply
2. -15V/-12V Power Supply
3. +Output
4. NC

Notes:

1. Connect the terminals of power supply, outputs respectively and correctly, never make wrong connection.
2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
3. The best accuracy can be achieved when the window is fully filled with bus-bar (current carrying conductor).
4. The in-phase output can be obtained when the direction of current of current carrying conductor is the same as the direction of arrow marked on the transducer case.

3.5 Hall Effect DC current analog transducer series CE-IZ04 case style E

3.5.1 List of options

SERIES	RANGE OF OUTPUT	POWER SUPPLY	WINDOW (mm)	CASE STYLE	INPUT RANGE
CE-IZ04-□□E	0-4V, 0-5V	±12V or ±15V	20.5x10.5	E1	0-50~600A
	0-50mA		12.7x7	E3	0-50A
			12.7x7	E3	0-100A
	0-4V, 0-5V 0-20mA, 4-20mA		Φ21	E4	0-10mA~10A
			Φ21	E4	0-50~400A
			Φ43	E5	0-10mA~10A
			Φ60	E6	0-300~1200A
	0-4V, 0-5V		Φ35.5	E7	0-0.01~10A

3.5.2 General specifications

SPECIFICATIONS \ CASE STYLE	E1, 4, 5, 6	E3	E7
LINEARITY RANGE	1.5 TIMES OF NOMINAL CURRENT		
OVERLOAD CAPABILITY	20 times of the maximum value of measuring range	2 times of the maximum value of measuring range	
ACCURACY	1%	0.5%	1%
OFFSET VOLTAGE	±20mV		±40mV
OFFSET CURRENT		±0.2mA	
HYSTERESIS ERROR	±10mV	±0.2mA	±20mV
TEMPERATURE DRIFT	≤250ppm/℃		
RESPONSE TIME	≤10μS	≤1μS	≤3μS
CURRENT CONSUMPTION	≤25mA	≤10mA+ output current	≤25mA
ISOLATION	3KVRMS/50Hz/min		
OPERATING TEMPERATURE RANGE	-10℃~+80℃		
STORAGE TEMPERATURE RANGE	-25℃~85℃		
FIRE RETARDANCY	UL94-V0		

3.5.3 Cases of series E

NOTE: Case style E4, 5 (10mA-10A) are mainly used to measure or monitor system for current leakage.

Application Characteristic: Can be used for measuring DC, AC, pulsant currents, etc. The output of the transducer reflects the real wave of the measured current passing through the carrying conductor.

Characteristic of Products: Small size, light in weight, less power consumption, window structure, electrically isolating the output of the transducer from the primary current carrying conductor, no insertion loss.

Application: Frequency conversion speed adjusting equipment, various power supply, UPS, electric welding machine, transformer substation, numerical control machine tool, electrolyzing equipment, electroplating equipment, electric powered locomotive, microcomputer monitoring, electric power grid monitoring.

Connection: The current carrying cable must pass through the window. The phase of output is the same as that of the current passing the window in the direction of the arrow indicated on the case.

Wiring of Terminals for case style E1, E4, E5, E6, E7:

1. +15V/+12V Power Supply
2. -15V/-12V Power Supply
3. +Output
4. Ground

Wiring of Terminals for case style E3:

+: +15V/+12V Power Supply
M: Output
-: -15V/-12V Power Supply

Notes:

1. Connect the terminals of power supply, outputs respectively and correctly, never make wrong connection.
2. Two potentiometers can be adjusted, only if necessary, by turning slowly to the required accuracy with a small screwdriver.
3. The best accuracy can be achieved when the window is fully filled with bus-bar (current carrying conductor).
4. The in-phase output can be obtained when the direction of current of current carrying conductor is the same as the direction of arrow marked on the transducer case.

3.6 Hall Effect DC current analog transducer series CE-IZ04 case style L

3.6.1 List of options

SERIES	OUTPUT	POWER SUPPLY	CASE STYLE	MOUNTING	INPUT RANGE
CE-IZ04-□□L	±4V	±12V or ±15V	L1	PCB	0-5A
			L2		0-10A
			L3		0-15A
			L4		0-20A
			L5		0-25A
			L6		0-50A

3.6.2 General specifications

SPECIFICATIONS \ CASE STYLE	L1	L2	L3	L4	L5	L6
INPUT RANGE	5A	10A	15A	20A	25A	50A
LINEARITY RANGE	0~±13A	0~±25A	0~±38A	0~±50A	0~±63A	0~±125A
OVERLOAD CAPABILITY	2 times of the maximum value of measuring range					
ACCURACY	1%					
OFFSET VOLTAGE	< ±0.04V					
HYSTERESIS ERROR	< ±0.02V					
TEMPERATURE DRIFT	≤ ±.0.1% / ℃					
RESPONSE TIME	≤3Ms di / dt = 50A/μS					
CURRENT CONSUMPTION	18mA					
ISOLATION	2.5KV AC / 1 min					
OPERATING TEMPERATURE RANGE	-10℃~+75℃					
STORAGE TEMPERATURE RANGE	-15℃~+85℃					
FIRE RETARDANCY	UL94-V0					

3.6.3 Cases of series L

Application Characteristic: Can be used for measuring DC, AC, pulsant currents.

Characteristic of Products: Small size, light in weight, less power consumption, electrically isolating the output of the transducer from the primary input, PCB mount.

Application: Frequency converter, various power supply, UPS, electric welding machine, numerical control machine tool, electrolyzing equipment, electroplating equipment, electric powered locomotive, microcomputer monitoring system.

Connection:

Wiring of Terminals for case style L:

1. +15V/+12V Power Supply
2. -15V/-12V Power Supply
3. Voltage Output
4. Ground

Chapter 4. Power supply & Dimensions

4.1 Power supply & dimensions

CE-WYS-1

Model	CE-WYS-1/1A/1B
Input Voltage	220V±10%, 50Hz
Rated Current Output	500mA
Output Voltage	DC ±12V, ±15V, +24V
Output Ripple	≤10mV

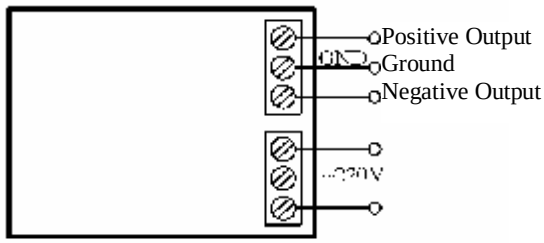
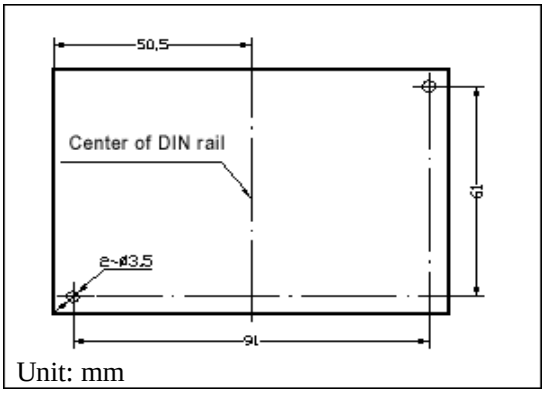


Fig.4.1.1 Connections for CE-WYS-1



CE-WYS-2

Model	CE-WYS-2
Input Voltage	220V±10%, 50Hz
Rated Current Output	200mA
Output Voltage	DC +12V, +15V, +24V
Output Ripple	≤10mV

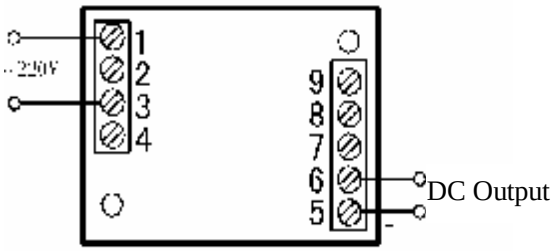
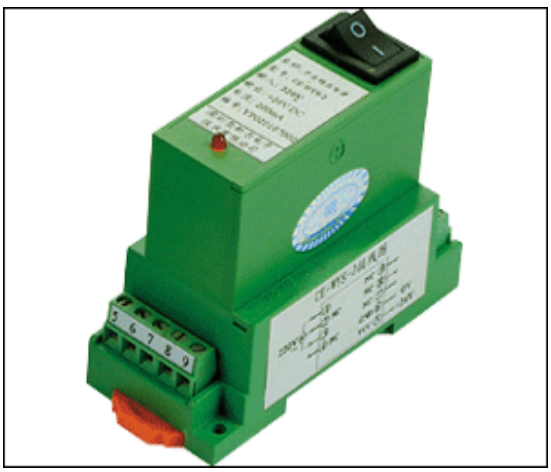
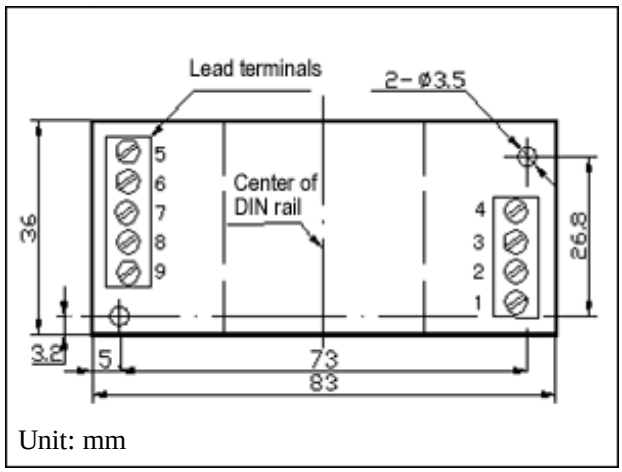


Fig. 4.1.2 Connections of CE-WYS-2

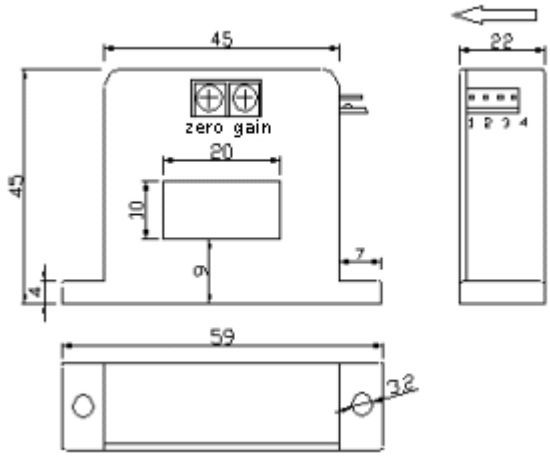




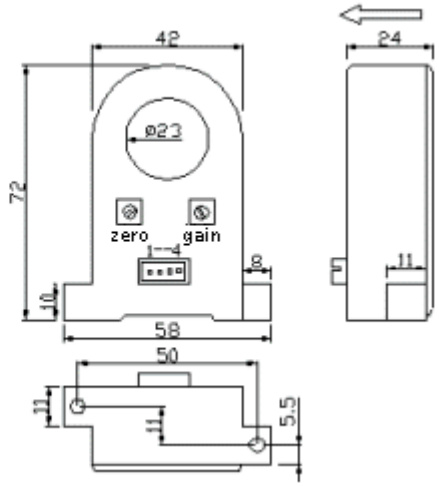
Note: CE-WYS1 and CE-WYS-2 are switching mode regulated power supply with positive voltage output. The voltage output of CE-WYS-1A is not adjustable. The voltage output of CE-WYS-1B linear regulated power supply is adjustable. CE-WYS-2 is of S3 case style.

4.2 Collection of cases and dimensions

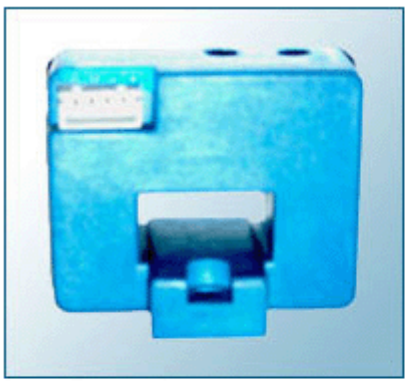
4.2.1 The cases and dimensions of serial A

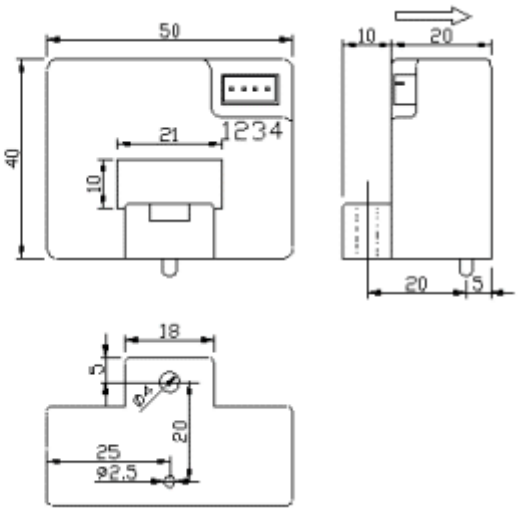


Case style A1

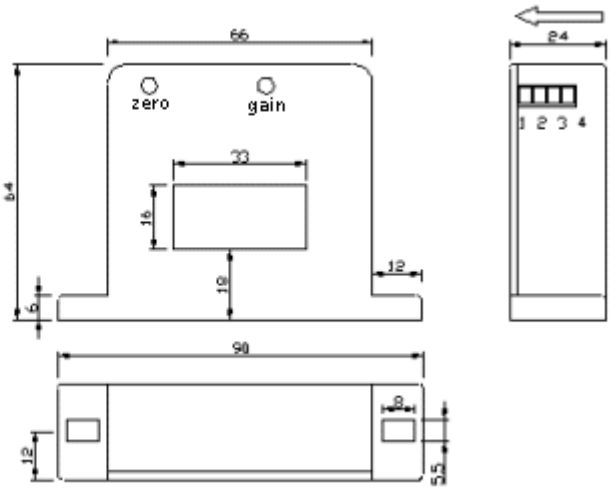


Case style A2

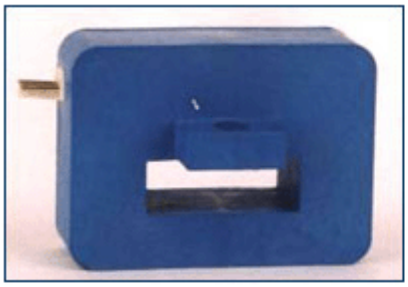


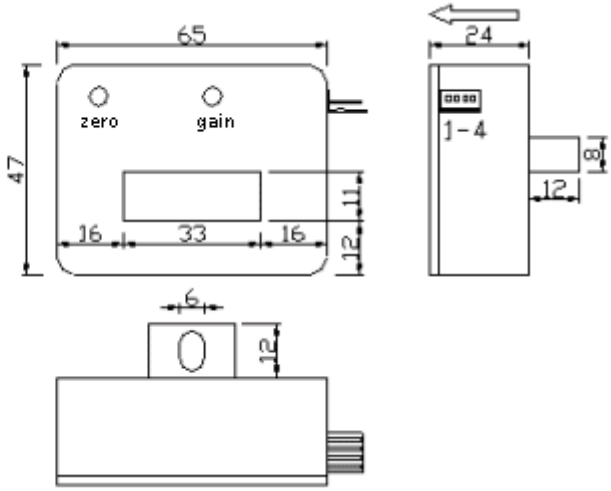


Case style A3



Case style A4





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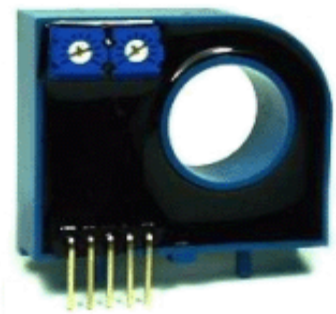
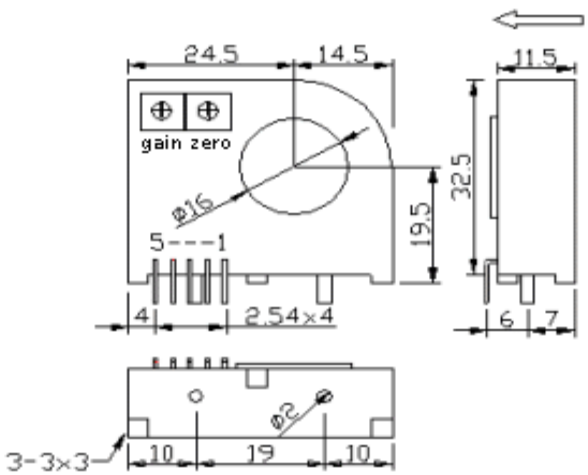
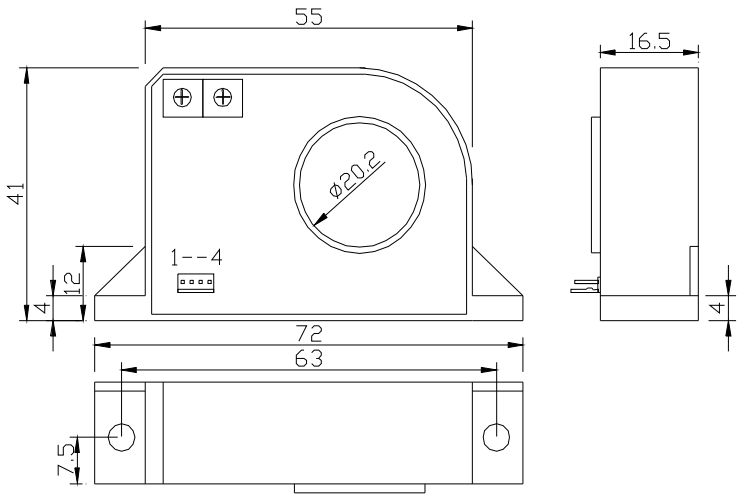
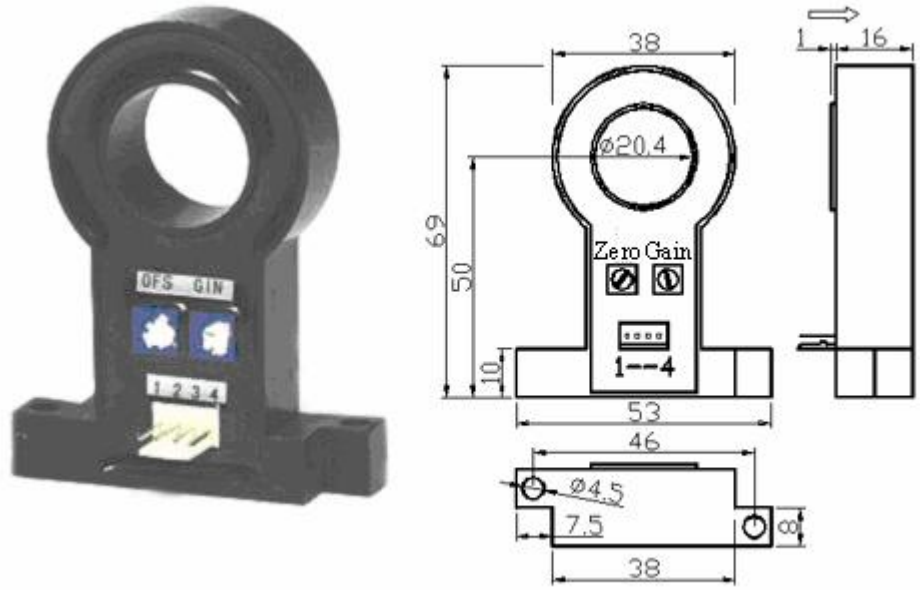




Case style A6

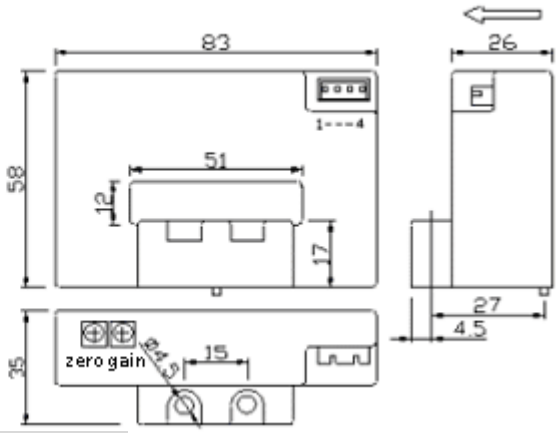


Case style A7

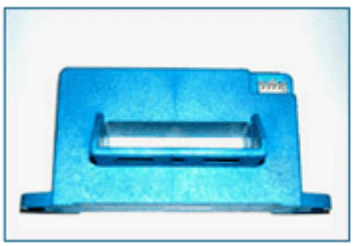


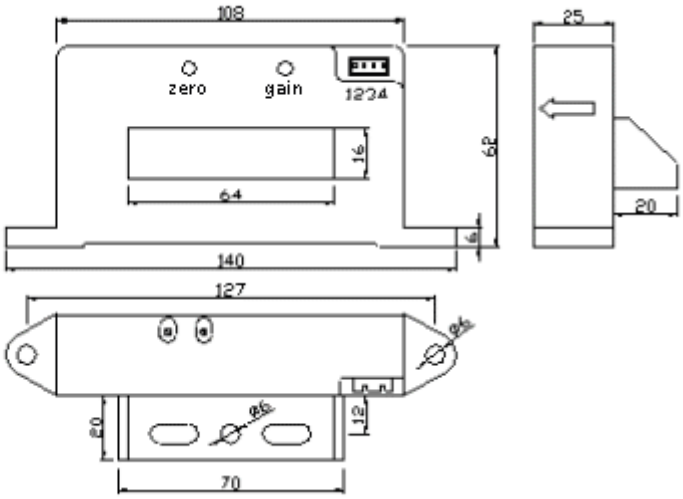
Case style A8

4.2.2 The cases and dimensions of serial B



Case style B1





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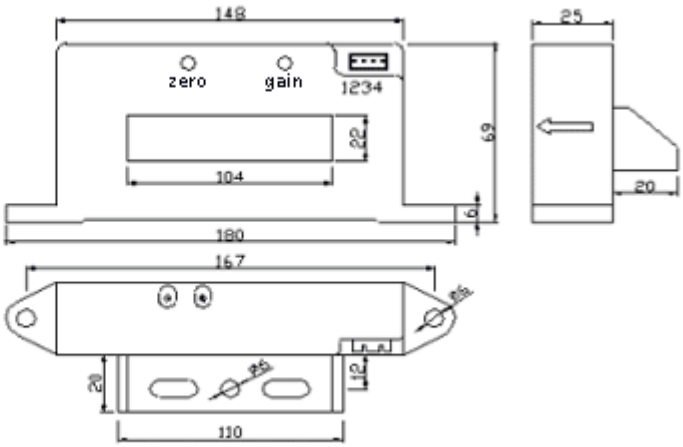

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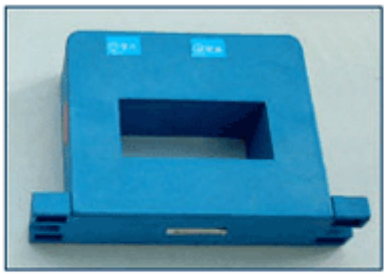

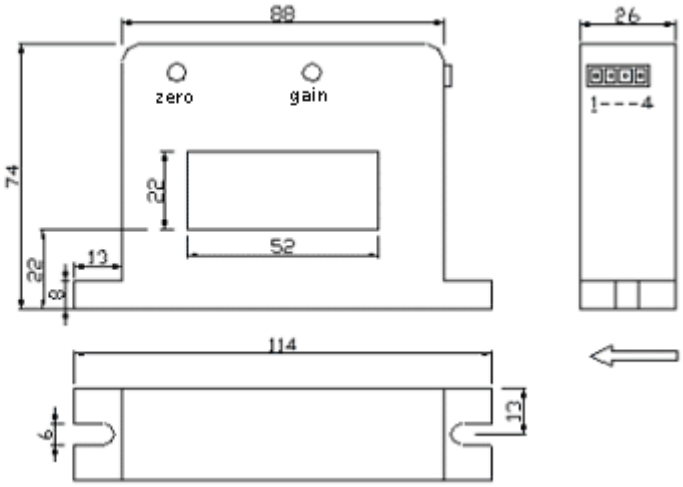

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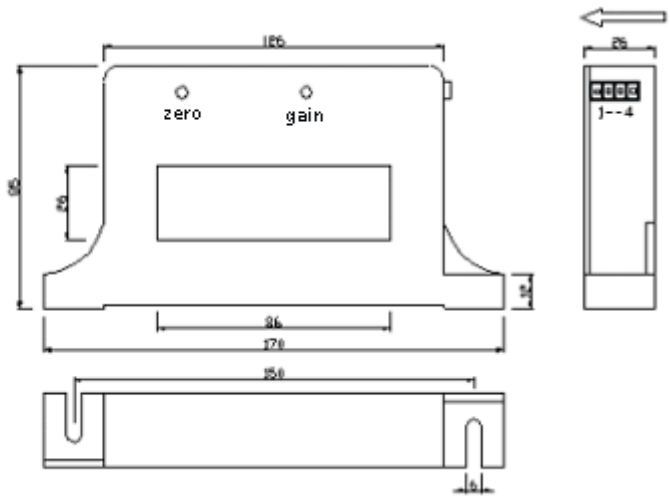

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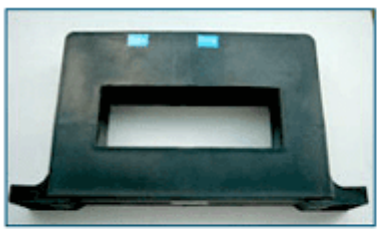

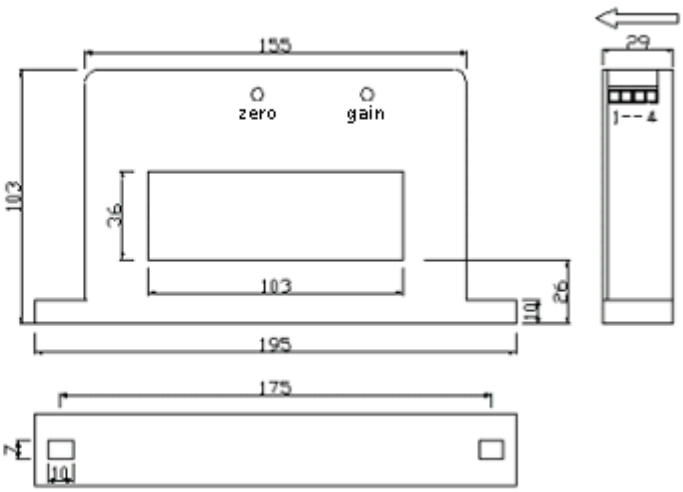

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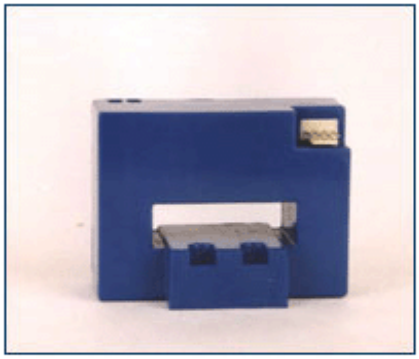
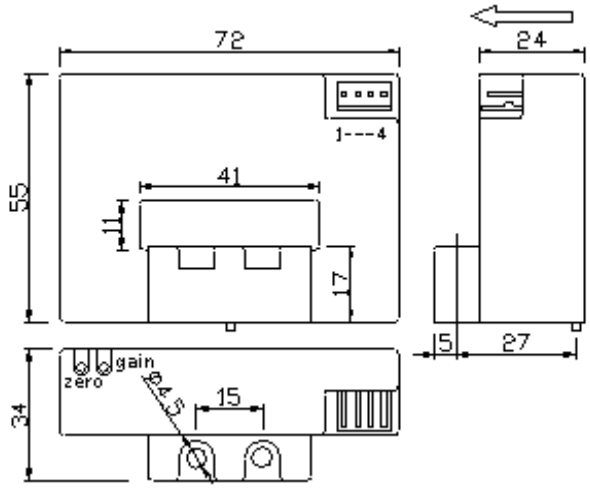
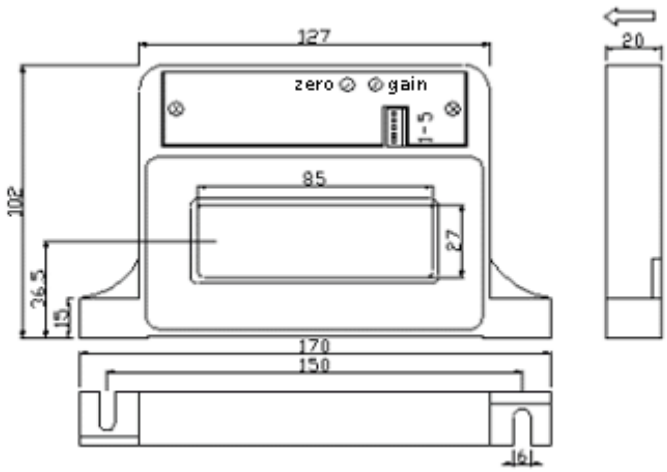


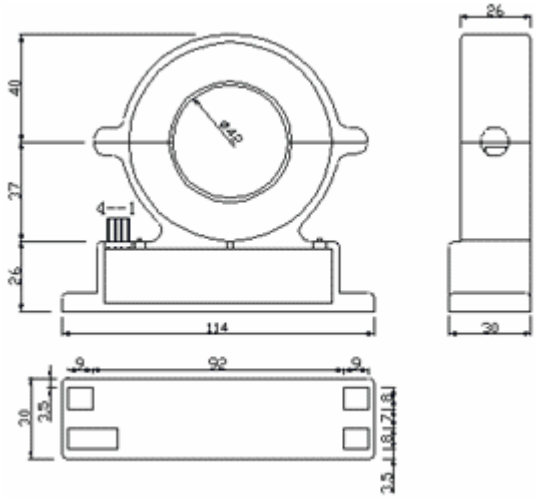


Case style B7



Case style B8

4.2.3 The cases and dimensions of serial C



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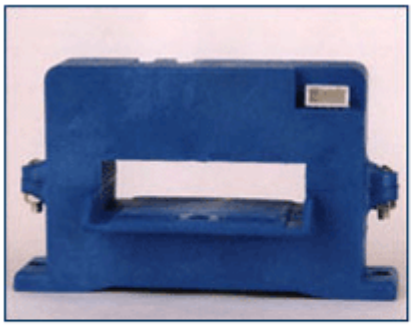

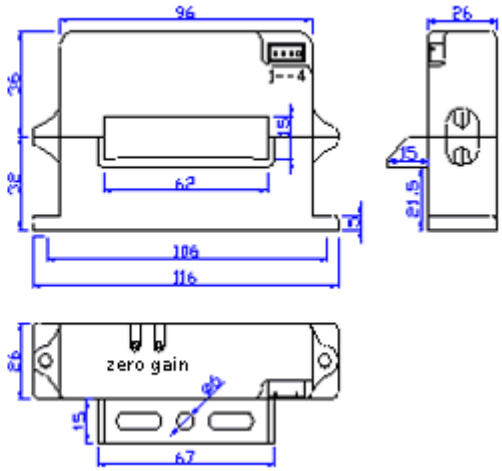

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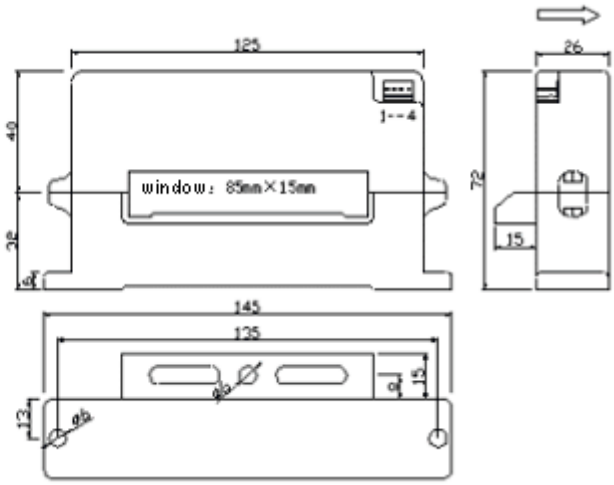

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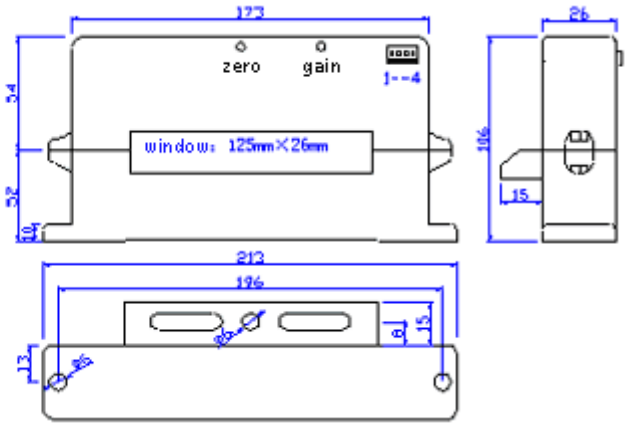

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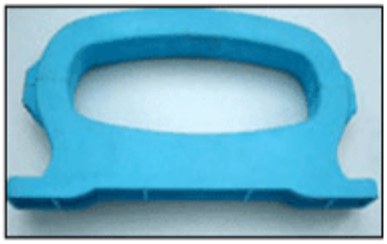

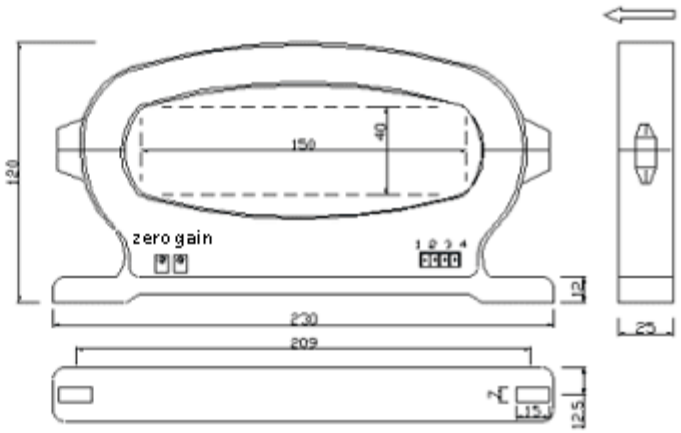

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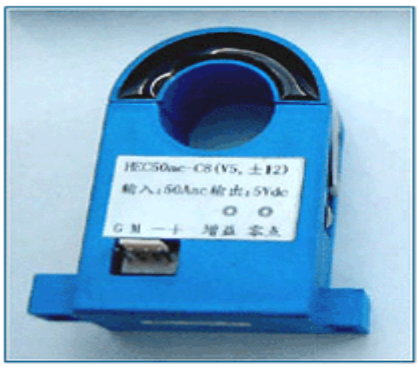

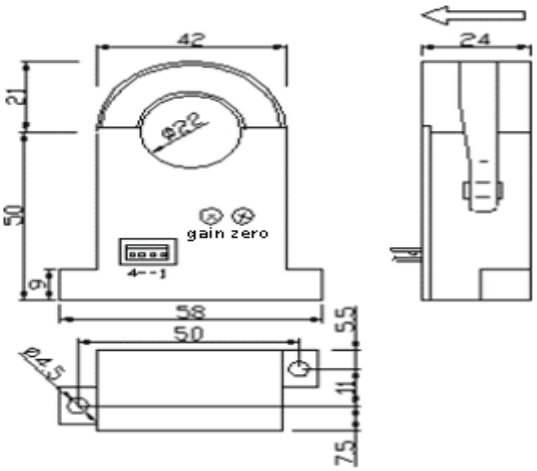

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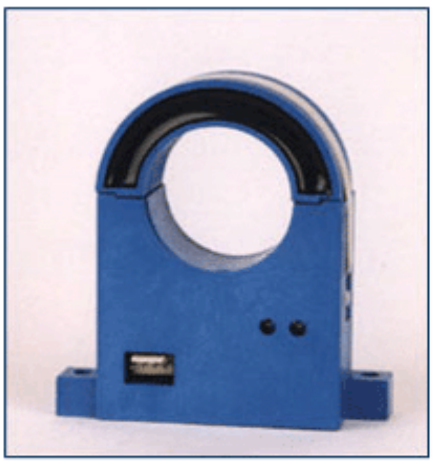

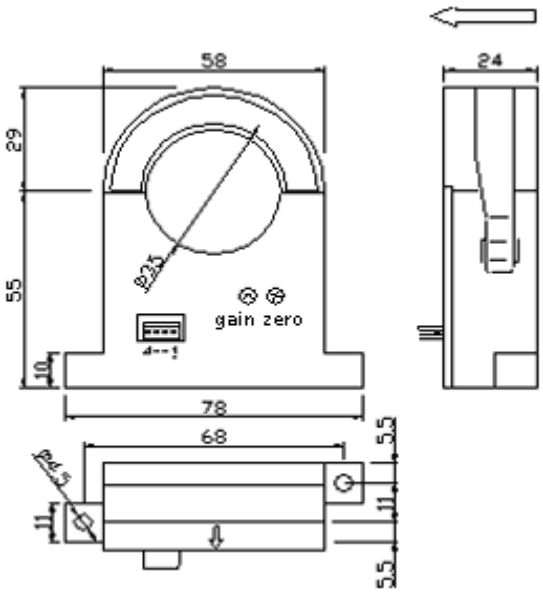

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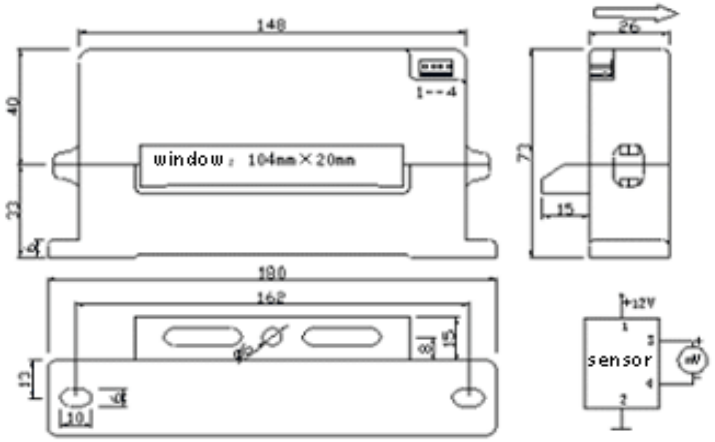

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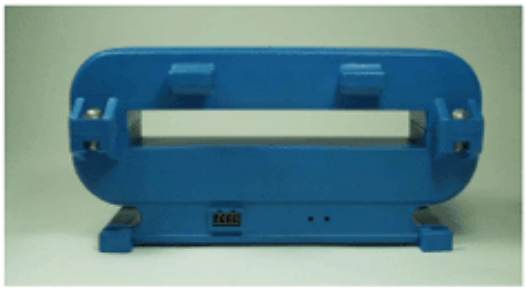

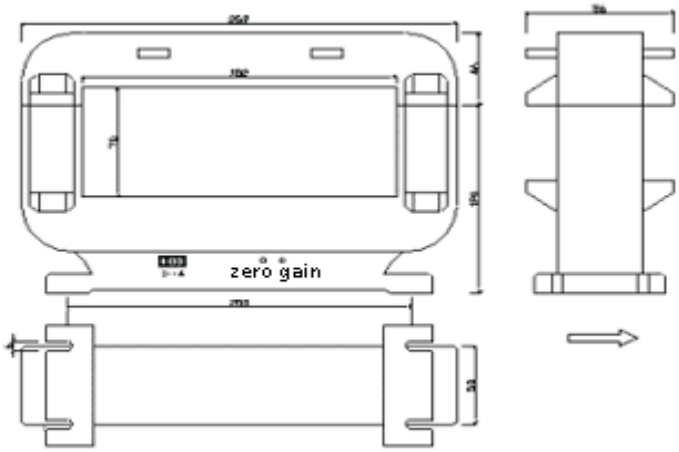

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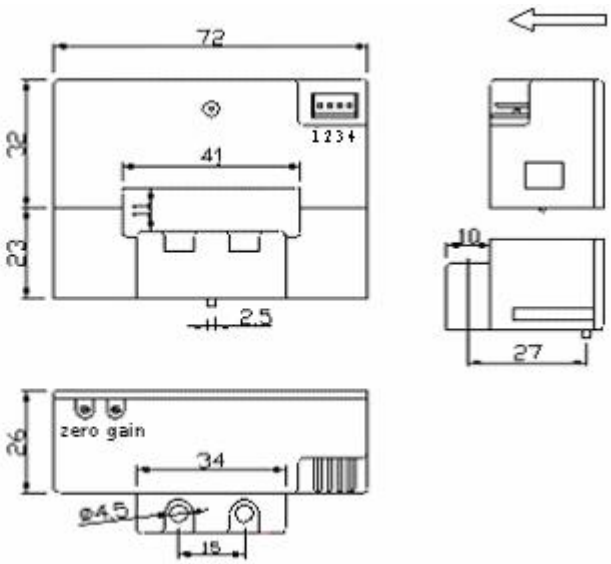

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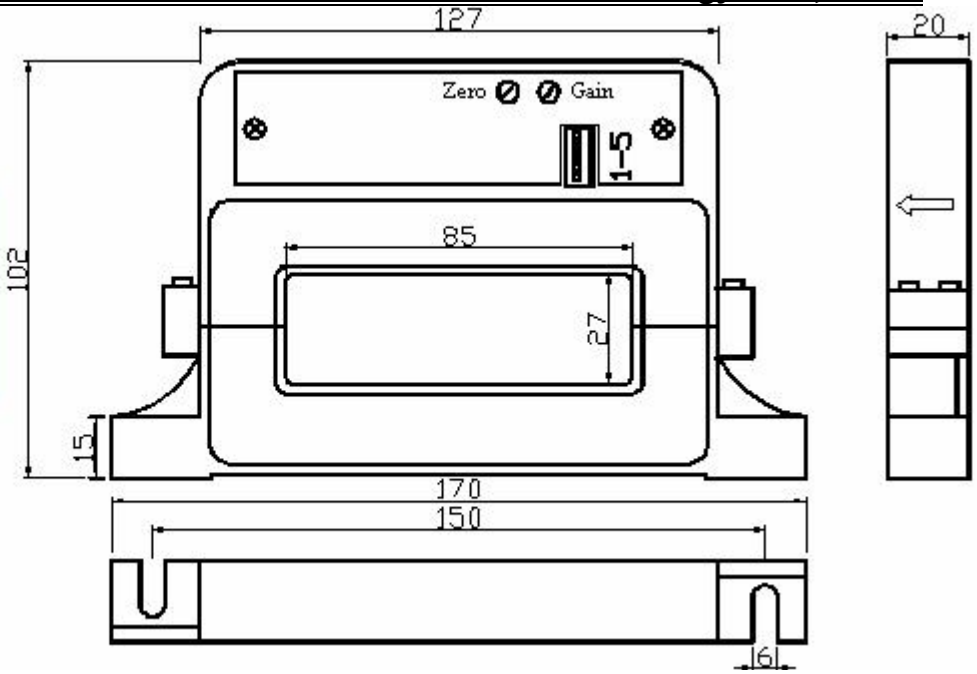

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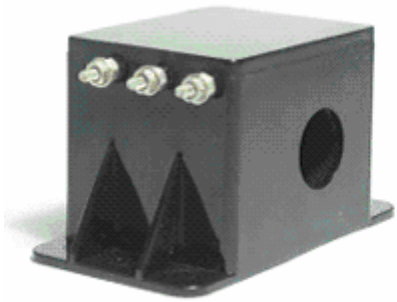

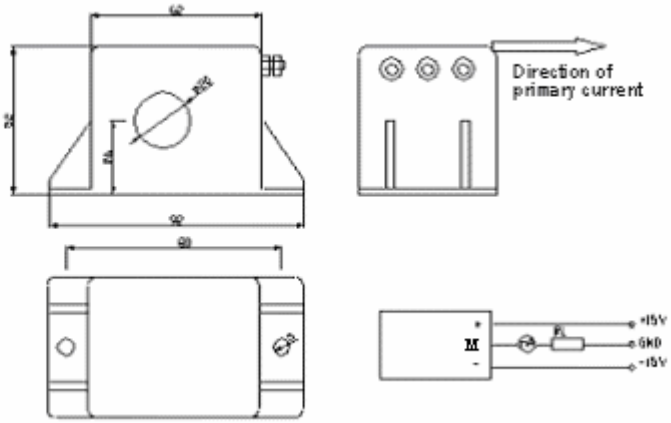

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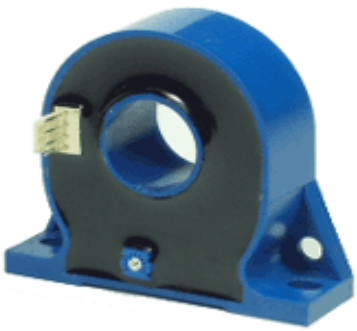

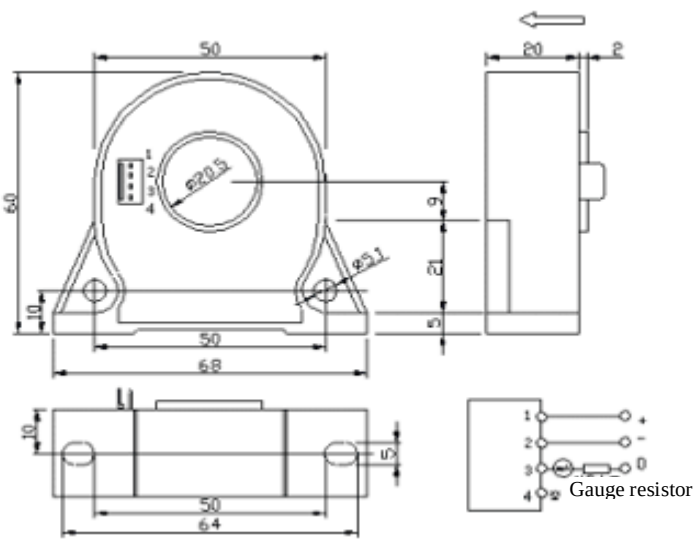

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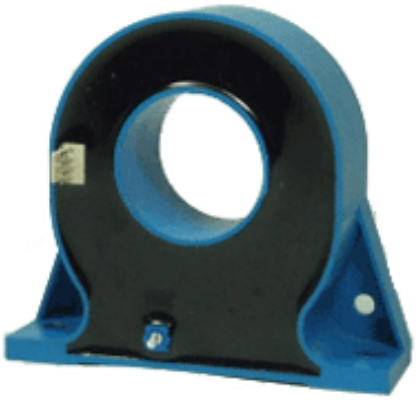
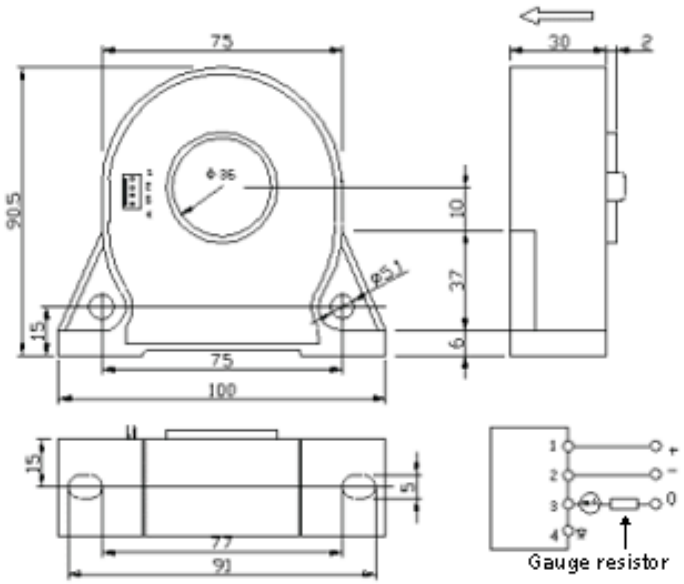
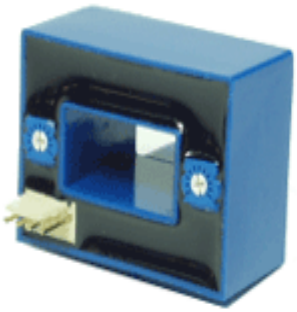
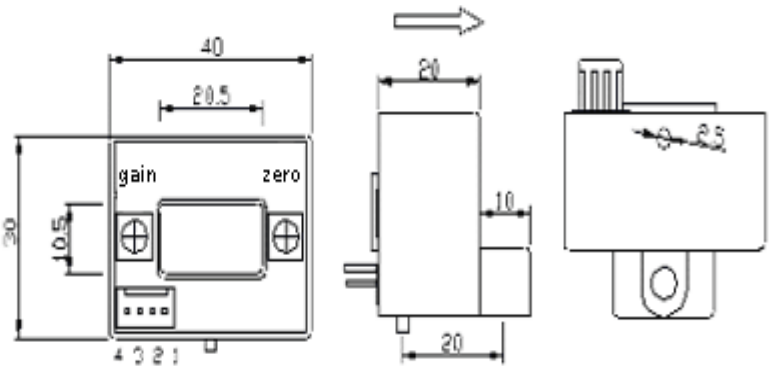




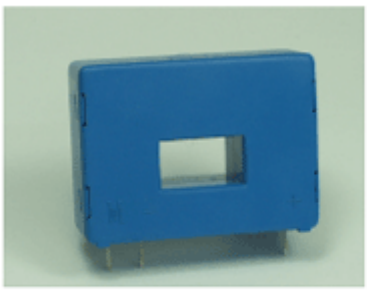
Case style D7

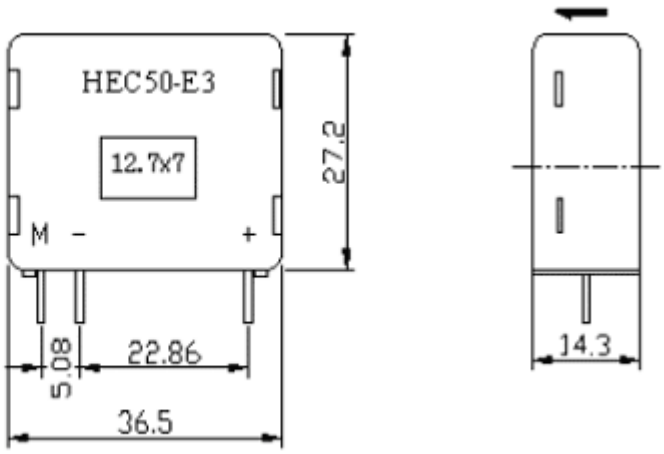
4.2.5 The cases and dimensions of serial E



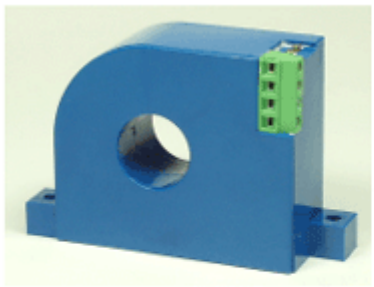


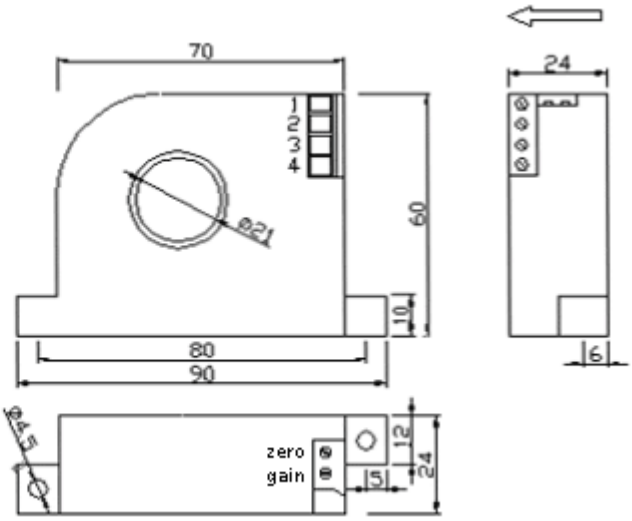
Case style E1



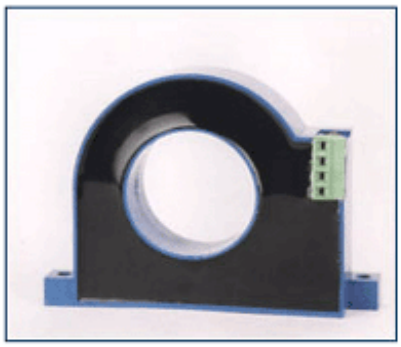


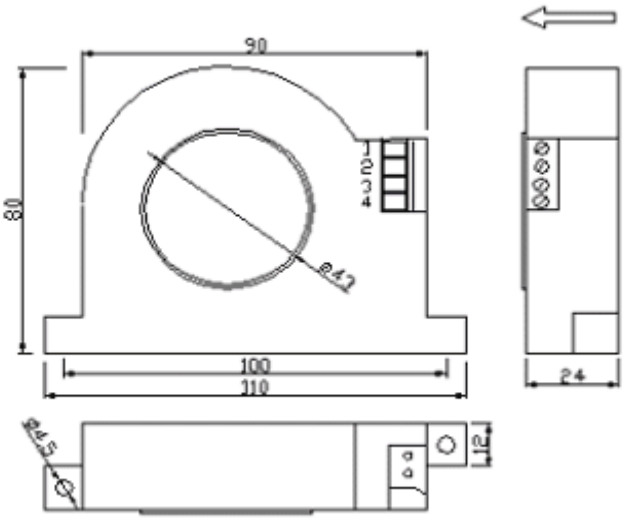
Case style E3



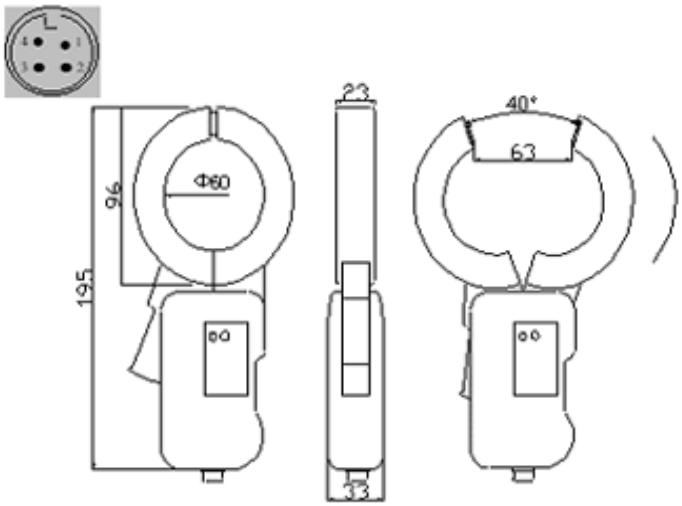


Case style E4

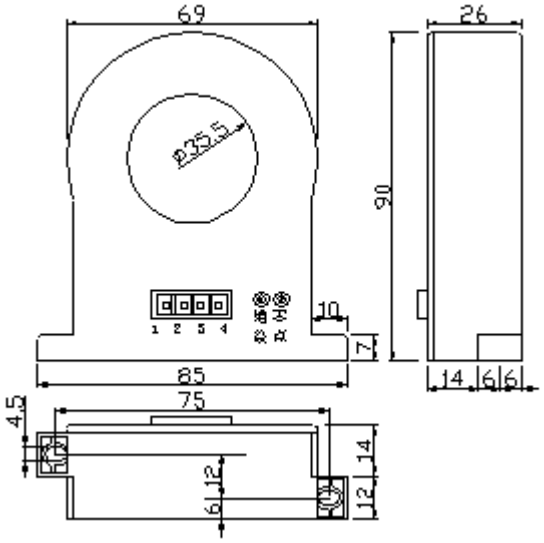




Case style E5

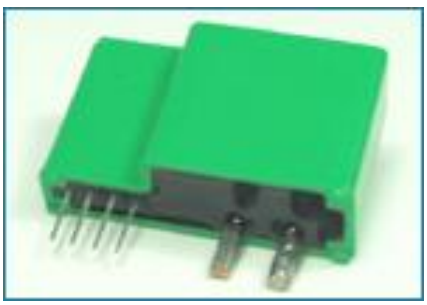


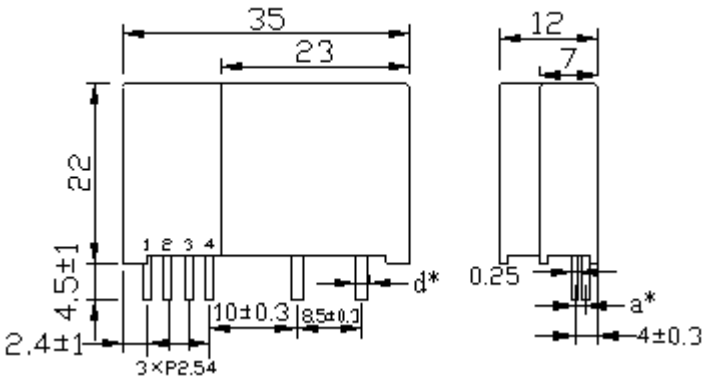
Case style E6



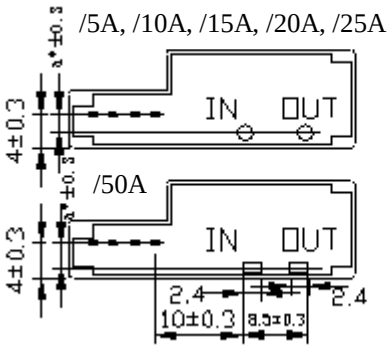
Case style E7

4.2.6 The cases and dimensions of serial





Part Numbers	a*(mm)	d*(mm)
CE-IZ04-□□L …/5A	1.3	Φ0.7
CE-IZ04-□□L …/10A	1.4	Φ1.0
CE-IZ04-□□L …/15A	1.6	Φ1.4
CE-IZ04-□□L …/20A	1.6	Φ1.4
CE-IZ04-□□L …/25A	1.7	Φ1.6
CE-IZ04-□□L …/50A	1.7	1.6×2.4



Chapter 5. Ordering Introduction, Application & Warranty Service

5.1 Introduction of ordering

Ensure a complete correct part number and product descriptions are used according to instructions in Chapters above. The ordering information must include the complete description including input and output parameters such as output function, power supply, case type, accuracy and INPUT range etc.

1. Quantity, delivery and shipping requirements must be included in your order. Please show your complete company name, address, fax number, and email address. Be sure to provide the name of the contact person that we can contact for any questions.

2. The complete order must be signed by both the seller and the buyer.

3. Payment is by irrevocable L/C at sight for large quantities or 50% in advance and the rest to be paid before shipment for small quantity.

5.2 Notice to user

5.2.1 Please check the number, part number and specifications of the products with packing list and label before use.

5.2.2 Please connect input, output and power supply correctly according to corresponding connection diagram and check carefully before powered**.**

5.2.3 Requirement of power supply:

Accuracy: 2% (min.) Ripple: Vpp≤0.4%

5.2.4 It is not allowed that the part numbers with current output operate when their outputs is open or with load resistance more than 250Ω. For the part numbers with voltage output they are not allowed to operate when their outputs is closed or with load resistance less than 2kΩ.

5.2.5 Conductive dust and gases corroding metal may damage the isolation. They are hazardous to the product. Don't operate in that environment.

5.2.6 You should screw the terminals tightly before you measure the output signal on the output terminals with the probes of instrument,

5.2.7 If you need test the accuracy of the product, you have to use an instrument with higher accuracy than that of the product at least 15 minutes later after powering on the product.

5.2.8 If the product operates in environment with strong electrical noise, please shield the input wires and sensing window, meanwhile let the output wire as shorter as possible. When many products are mounted together, please mount the products on a rail with width of 35mm and keep the interval at least 10mm between products. Use M3 screw to mount the product on plane.

5.2.9 The zero adjusting and accuracy of all delivered products were adjusted and calibrated. Don't readjust. Please contact us In case you need adjusting.

5.2.10 Never damage or remove any labels on product.

5.3 Warranty service

5.3.1 SHENZHEN TRANSDUCER ELECTRONIC TECHNOLOGY CO., LTD. warrants its products against all defects in workmanship and material. If you experience a problem with the product, our technicians are available to help you.

5.3.2 In case the product does not operate properly, please contact our Marketing Department or Technical Department by fax or by e-mail and explain the phenomenon of the problem, your operation environment and appoint a technician to contact.

BACK TO CONTENTS

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