

Characteristics Adoption of the flux gate system makes it possible to conduct high-precision current measurements. Due to the low-temperature drift, it is ideal in environments of large temperature fluctuation.

Uses High-precision AC/DC current measurement Medical equipment High-precision current breakers
High-stabilizing DC power supply units Power controllers EV rapid charging devices

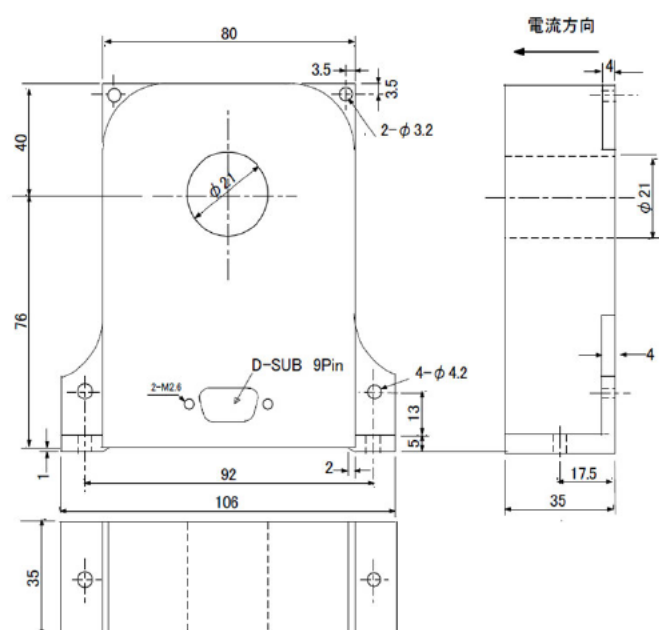
Main Electrical Characteristics Main Specifications

Ta=25°C

| Parameter | Symbol | Unit | Conditions | Model |
|-------------------------|--------|------|-------------------|--------------------------|
| | | | | CFC-050 |
| Primary nominal current | If | A | DC (Peak AC) | 0~±50A |
| Rated output current | Iout | mA | If max | ±100mA |
| Load resistance | RL | Ω | Recommended value | 40Ω |
| | | | Minimum value | 20Ω |
| | | | Maximum value | $RL \leq 5500/(If) - 30$ |
| Linearity limits | εL | % | | <10ppm |
| Offset current | Iof | μA | * | ±10μA |
| Supply voltage | Vcc | V | | ±15V ±5% |
| Current consumption | Ic | mA | | ±100mA + Iout |
| Ambient operating temp. | Ta | °C | | -15°C~+60°C |
| Ambient storage temp. | Ts | °C | | -20°C~+85°C |

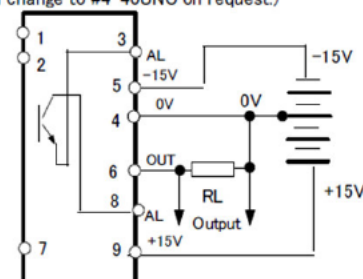
* Includes geomagnetism + residual magnetism + impact of electrical circuit offset

CFC-050 Outline Drawing (Unit: mm)



D-SUB Pin Connections

(D-SUB can change to #4-40UNC on request.)



Terminal connection numbers

Do not connect anything to 1,2,7

* 3-8 :AL terminals contact capacity (24V 10mA)

4:0V

5:-15V

6:OUTPUT

9:+15V

8:collector

3:emitter

* Photo transistor output is closed during normal operation.
When the sensor malfunctions, terminals open.

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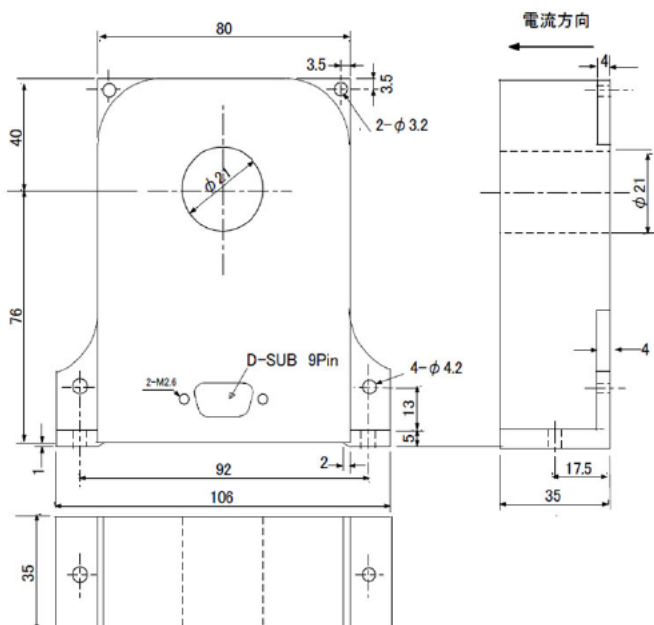
Main Electrical Characteristics Main Specifications

Ta=25°C

| Parameter | Symbol | Unit | Conditions | Model |
|-------------------------|--------|------|-------------------|---------------|
| | | | | CFC-100 |
| Primary nominal current | If | A | DC (Peak AC) | 0~±100A |
| Rated output current | Iout | mA | If max | ±100mA |
| Load resistance | RL | Ω | Recommended value | 60Ω |
| | | | Minimum value | 25Ω |
| | | | Maximum value | 11000/(If)-17 |
| Linearity limits | EL | % | | <10ppm |
| Offset current | Iof | μA | * | ±10μA |
| Supply voltage | Vcc | V | | ±15V ±5% |
| Current consumption | Ic | mA | | ±100mA + Iout |
| Ambient operating temp. | Ta | °C | | -15°C~+60°C |
| Ambient storage temp. | Ts | °C | | -20°C~+85°C |

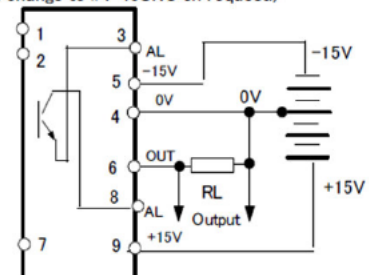
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CFC-100 Outline Drawing (Unit: mm)



D-SUB Pin Connections

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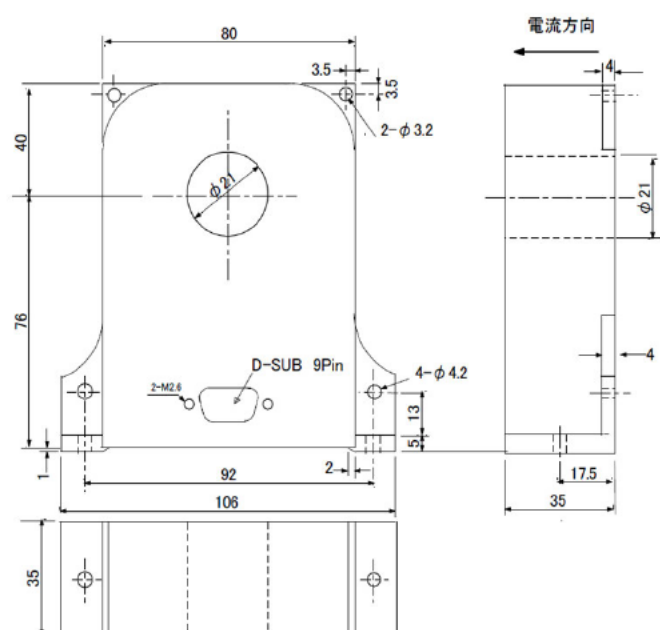
Main Electrical Characteristics Main Specifications

Ta=25°C

| Parameter | Symbol | Unit | Conditions | Model |
|-------------------------|--------|------|-------------------|-------------------------|
| | | | | CFC-300 |
| Primary nominal current | If (n) | A | DC (Peak AC) | 0~±300A |
| Rated output current | Iout | mA | If max | ±300mA |
| Load resistance | RL | Ω | Recommended value | 15Ω |
| | | | Minimum value | 0.2Ω |
| | | | Maximum value | $RL \leq 11000/(If)-17$ |
| Linearity limits | εL | % | | <10ppm |
| Offset current | Iof | μA | * | ±3μA |
| Supply voltage | Vcc | V | | ±15V ±5% |
| Current consumption | Ic | mA | | ±100mA + Iout |
| Ambient operating temp. | Ta | °C | | -15°C~+60°C |
| Ambient storage temp. | Ts | °C | | -20°C~+85°C |

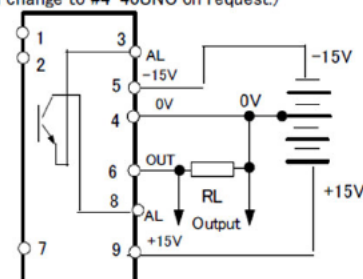
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CFC-300 Outline Drawing (Unit: mm)



D-SUB Pin Connections

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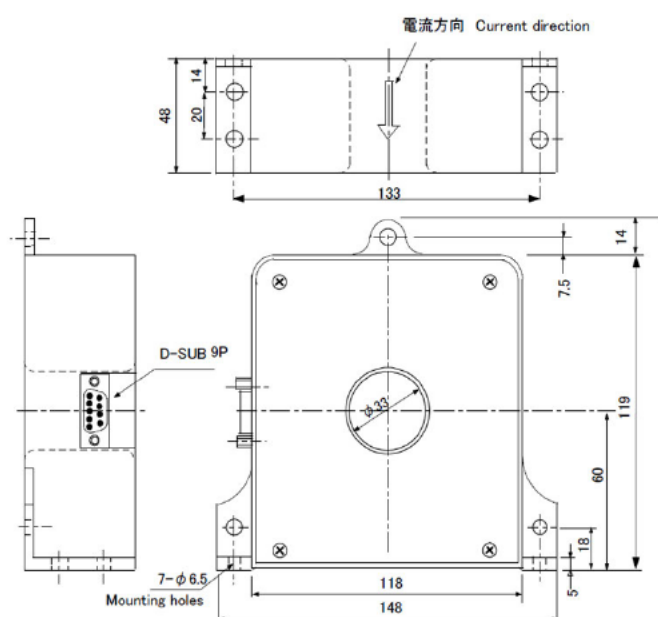
Main Electrical Characteristics Main Specifications

Ta=25°C

| Parameter | Symbol | Unit | Conditions | Model |
|-------------------------|--------|------|-------------------|---------------------------|
| | | | | CFC-600 |
| Primary nominal current | If | A | DC (Peak AC) | 0~±600A |
| Rated output current | Iout | mA | If max | ±400mA |
| Load resistance | RL | Ω | Recommended value | 10Ω |
| | | | Minimum value | 0.2Ω |
| | | | Maximum value | $RL \leq 15000/(If) - 12$ |
| Linearity limits | EL | % | | <10ppm |
| Offset current | Iof | μA | * | ±4μA |
| Supply voltage | Vcc | V | | ±15V ±5% |
| Current consumption | Ic | mA | | ±150mA + Iout |
| Ambient operating temp. | Ta | °C | | -15°C~+60°C |
| Ambient storage temp. | Ts | °C | | -20°C~+85°C |

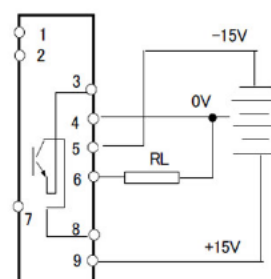
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CFC-600 Outline Drawing (Unit: mm)



D-SUB Pin Connections

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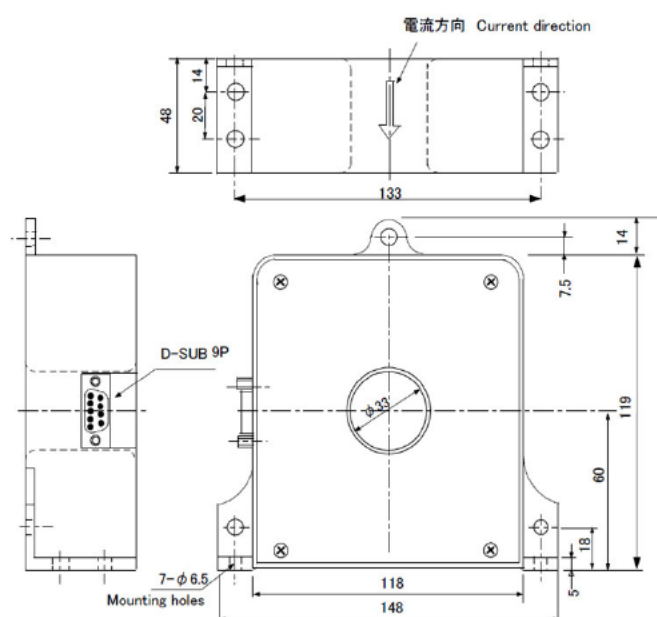
Main Electrical Characteristics Main Specifications

Ta=25°C

| Parameter | Symbol | Unit | Conditions | Model |
|-------------------------|--------|------|-------------------|---------------------------|
| | | | | CFC-1000 |
| Primary nominal current | If | A | DC (Peak AC) | 0~±1000A |
| Rated output current | Iout | mA | If max | ±500mA |
| Load resistance | RL | Ω | Recommended value | 5Ω |
| | | | Minimum value | 0.2Ω |
| | | | Maximum value | $RL \leq 22000/(If) - 14$ |
| Linearity limits | εL | % | | <10ppm |
| Offset current | Iof | μA | * | ±5μA |
| Supply voltage | Vcc | V | | ±15V ±5% |
| Current consumption | Ic | mA | | ±150mA + Iout |
| Ambient operating temp. | Ta | °C | | -15°C~+60°C |
| Ambient storage temp. | Ts | °C | | -20°C~+85°C |

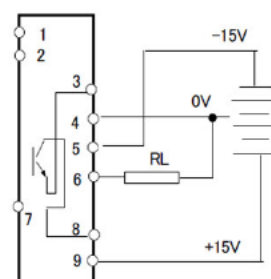
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CFC-1000 Outline Drawing (Unit: mm)



D-SUB Pin Connections

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