

## Hall split core current sensor

Open loop split core type, pressure plate installation, terminal output. Detect DC, AC and pulse current, high insulation between primary side and the vice side circuit.



Front view



Opening view

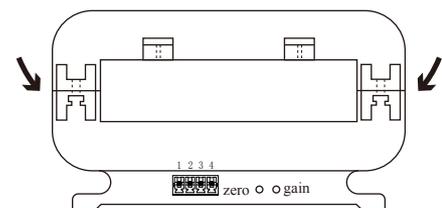
### Product features

- Light weight
- Low power consumption
- Good linearity
- No insertion loss
- Fast response time
- Good anti-interference ability

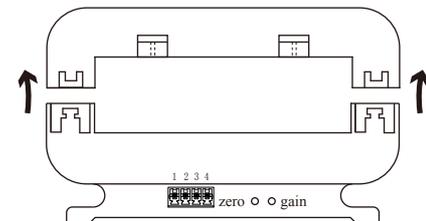
### Product application

- Railway
- Metallurgical
- Welding machine
- Robot
- Motor
- Inverter power supply
- Variable frequency governor
- Uninterrupted power supply and communication power supply

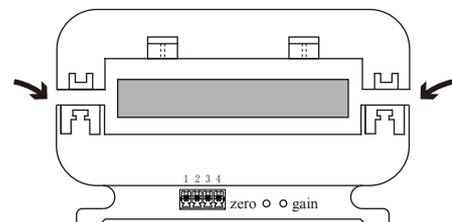
### Installation diagram



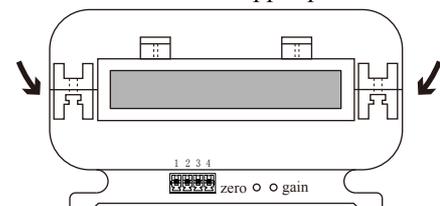
1. Loosen the screw



2. Open up



3. In the copper platoon



4. Tighten the screws

**Electrical parameters:** (The following parameters are typical values and actual values will be subject to product testing)

**Remarks:**

$I_{PN}$	Rated input	$\pm 2000A$	$\pm 3000A$	$\pm 4000A$	$\pm 5000A$	Standard input
$I_{pm}$	Input measurement range	$\pm 2200A$	$\pm 3600A$	$\pm 4800A$	$\pm 5000A$	Default is 1.2 times of rated input
$V_{out}$	Rated output	$2.5V \pm 0.625V$				Standard output
$I_{PN}$	Rated input	$\pm 4000A$		$\pm 5000A$		Standard input
$I_{pm}$	Input measurement range	$\pm 4000A$		$\pm 5000A$		
$V_{out}$	Rated output	$2.5V \pm 2V$				Standard output
X	Accuracy	1%				$I = I_{PN}$
$\epsilon_L$	Linearity	1%				$I = 0 \sim \pm I_{PN}$
$V_c$	Supply voltage	+5V				Supply voltage range $\pm 5\%$
$I_c$	Current consumption	$\leq 16mA$				Reference will be subject to the measured
Rl	Load impedance	$\geq 10K \Omega$				Collection port impedance while lower voltage affect accuracy
$V_{oe}$	Zero offset voltage	$\leq \pm 15mV$				$T_A = 25^\circ C$
$T_r$	Response time	$\leq 5 \mu s$				Reference will be subject to the measured
$N_w$	Weight	4537g				Reference will be subject to the measured
$T_a$	Operation temperature	$-10 \sim +70^\circ C$				
$T_s$	Storage temperature	$-25 \sim +70^\circ C$				
$B_w$	Band width	-				Factory test according to DC
$V_d$	Delectric strength	6KV 50Hz 1min				

**Factory commissioning :**

1. Debug with 0V as the reference point(acquiescence)
2. Debug with Vref as the reference point(optional)

**Calculation formula:  $2.5V \pm 0.625V$  (or  $\pm 2V$ )**

- Forward direction:  $2.5 + (I/I_{PN}) * 0.625$  (or  $\pm 2$ )  
 Reverse direction:  $2.5 - (I/I_{PN}) * 0.625$  (or  $\pm 2$ )

**Instructions for use:**

1. According to the connection mode of correct connection
2. The direction shown by the arrow is positive
3. With hole measurement, response time and following the speed for the best
4. Faulty wiring can lead to product damage and output uncertainty

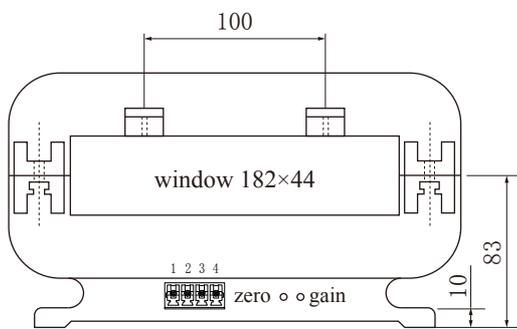
**Safe operation:**

- \*Please read this specification carefully before use.
- \*When you need to move the product, please be sure to disconnect the power and all the connected cables.
- \*If found shell, devices attached to the fixed parts, wire, or have any damaged, please immediately deal with hidden dangers.
- \*If there is any doubt about the safe operation of the equipment, the equipment and the corresponding accessories should be closed immediately, and the fastest time for troubleshooting.

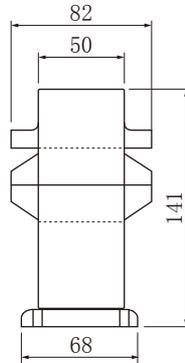
**Proclamations:**

As our products are constantly being improved and updated, we reserve the right to modify the content of this specification at any time without prior notice.

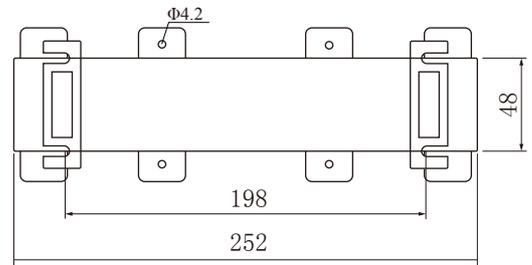
Dimensions(in mm±0.5) :



Front view

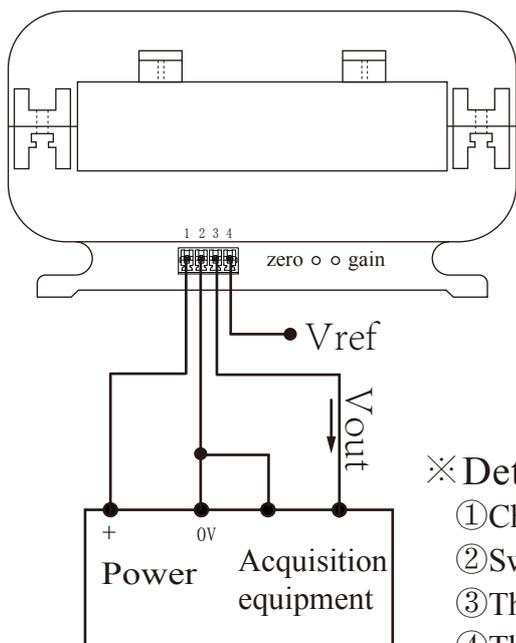


Side view



Bottom view

Wiring diagram :



Connector Illustration



KF2EDGK-3.81-4P, spacing 3.81mm

**Terminal definition :**

- 1: +V
- 2: 0V
- 3: Vout
- 4: Vref

**Potentiometer definition :**

- Left: zero
- Right: gain

※Detection :

- ① Choose the auxiliary power supply with small ripple ( $\leq 10\text{mV}$ )
- ② Switch on auxiliary power
- ③ The auxiliary power is connected to the sensor
- ④ The sensor detects the primary current