



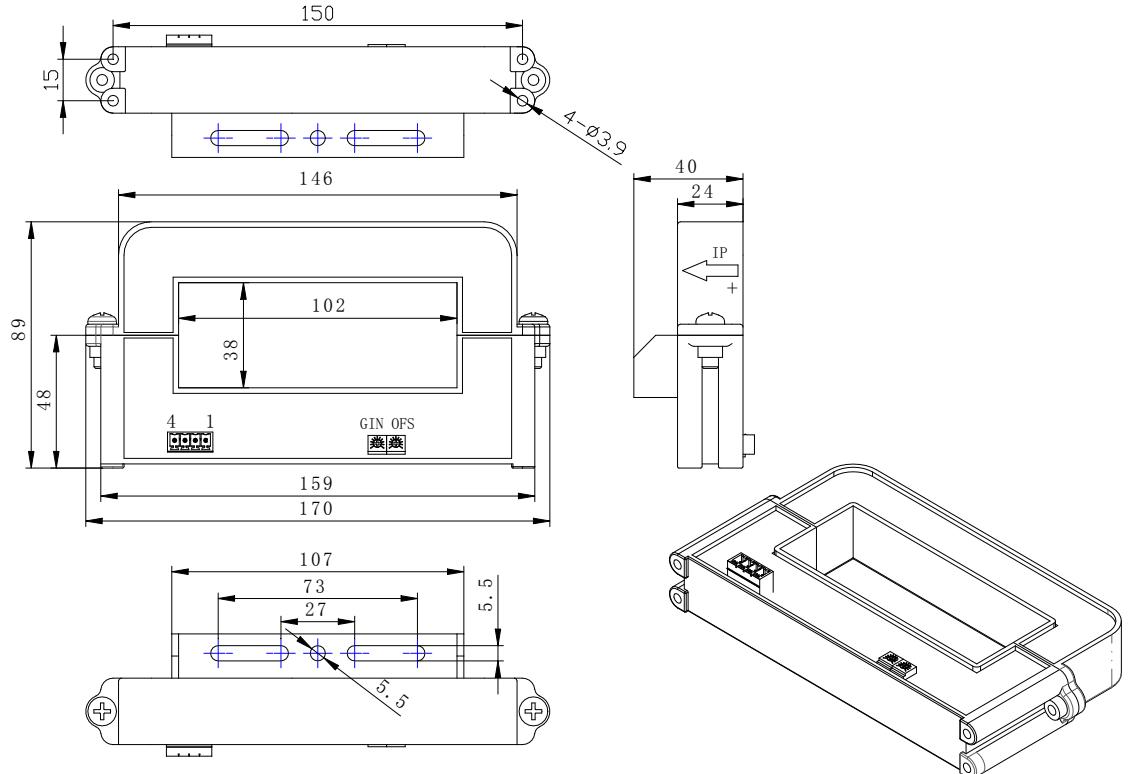
# CS5000KAA Hall-effect Current Sensor Series



Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

Electrical characteristics								
	Type	CS500KAA	CS1000KAA	CS2000KAA	CS3000KAA	CS4000KAA	CS5000KAA	
I <sub>PN</sub>	Primary nominal input current	500	1000	2000	3000	4000	5000	A
I <sub>P</sub>	Measuring range of primary current	0~±1000	0~±2000	0~±4000	0~±5000	0~±5000	0~±6000	A
V <sub>OUT</sub>	Nominal output voltage	4±1%					V	
V <sub>C</sub>	Supply voltage	±12~±15(±5%)					V	
I <sub>C</sub>	Current consumption	V <sub>C</sub> =±15V	<30					mA
V <sub>D</sub>	Insulation voltage	AC/50Hz/1min	6					kV
ε <sub>L</sub>	Linearity	<1					%FS	
V <sub>O</sub>	Offset voltage	T <sub>A</sub> =25°C	<±25					mV
V <sub>OM</sub>	Residual voltage	I <sub>PN</sub> →0	<±25					mV
V <sub>OT</sub>	Thermal drift of V <sub>O</sub>	I <sub>P</sub> =0 T <sub>A</sub> =-25~+85°C	<±1					mV/°C
T <sub>R</sub>	Response time	≤7					μs	
f	Frequency bandwidth(-3dB)	DC~20					kHz	
T <sub>A</sub>	Ambient operating temperature	-25~+85					°C	
T <sub>S</sub>	Ambient storage temperature	-40~+100					°C	
R <sub>L</sub>	Load resistance	≥10					kΩ	
m	Mass	650					g	
	Standard	Q/320115QHKJ01-2016						

## Dimensions of drawing (mm)



Elucidation: 1:+15V 2:-15V 3:V<sub>OUT</sub> 4:0V(GND) OFS:Zero adjustment GIN:Gain adjustment  
( Red:+15V Blue:-15V Yellow:V<sub>OUT</sub> Black:0V )

## Remarks

- Incorrect connection may lead to the damage of the sensor.
- V<sub>OUT</sub> is positive when the I<sub>P</sub> flows in the direction of the arrow.