



# CS500EK1 Hall-effect Current Sensor Series

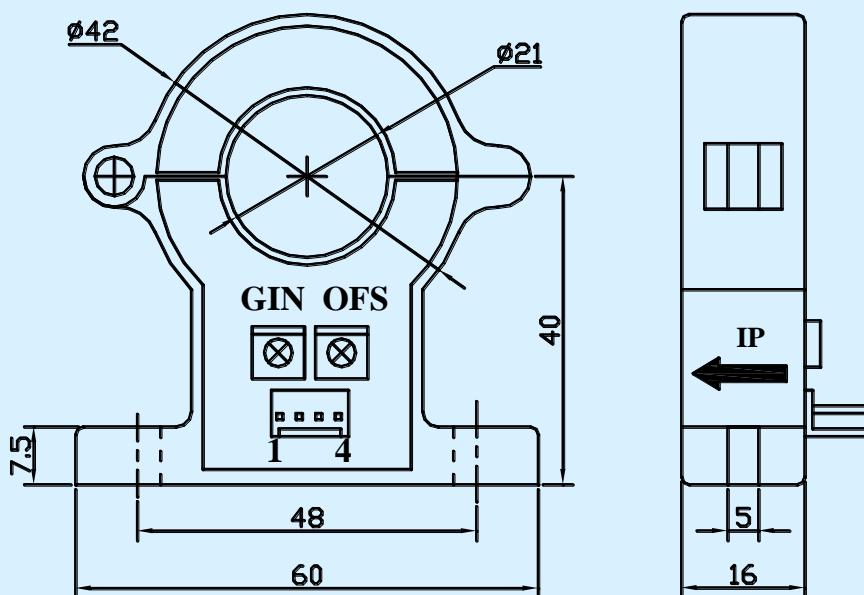
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.



## Electrical characteristics

	Type	CS050EK1	CS100EK1	CS200EK1	CS300EK1	CS400EK1	CS500EK1	
I <sub>PN</sub>	Primary nominal input current	50	100	200	300	400	500	A
I <sub>P</sub>	Measuring range of primary current	0~±100	0~±200	0~±400	0~±600	0~±800	0~±1000	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		<25				mA
V <sub>D</sub>	Insulation voltage	AC/50Hz/1min		3				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>0</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
	Standard			Q/3201CHGL02-2007				

## Dimensions of drawing (mm)



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

## 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.