



®

# CS20000KUL 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	CS2000KUL	CS5000KUL	CS10000KUL	CS15000KUL	CS20000KUL
I <sub>PN</sub>	Primary nominal input current	2000	5000	10000	15000	20000 A
I <sub>P</sub>	Measuring range of primary current	0~±3000	0~±6000	0~±12000	0~±18000	0~±22000 A
V <sub>OUT</sub>	Nominal output voltage			5±1%		V
V <sub>c</sub>	Supply voltage			±12~±15(±5%)		V
I <sub>C</sub>	Current consumption	V <sub>c</sub> =±15V		<50 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		<±20 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			≤10 μs		
f	Frequency bandwidth(-3dB)			DC~6 kHz		
T <sub>A</sub>	Ambient operating temperature			-25~+85 °C		
T <sub>S</sub>	Ambient storage temperature			-25~+100 °C		
R <sub>L</sub>	Load resistance			≥10 KΩ		
m	Mass			3010 g		
	Standard			Q/320115QHKJ-2016		

## 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.