

CS20000KUB

Hall-effect Current Sensor Series

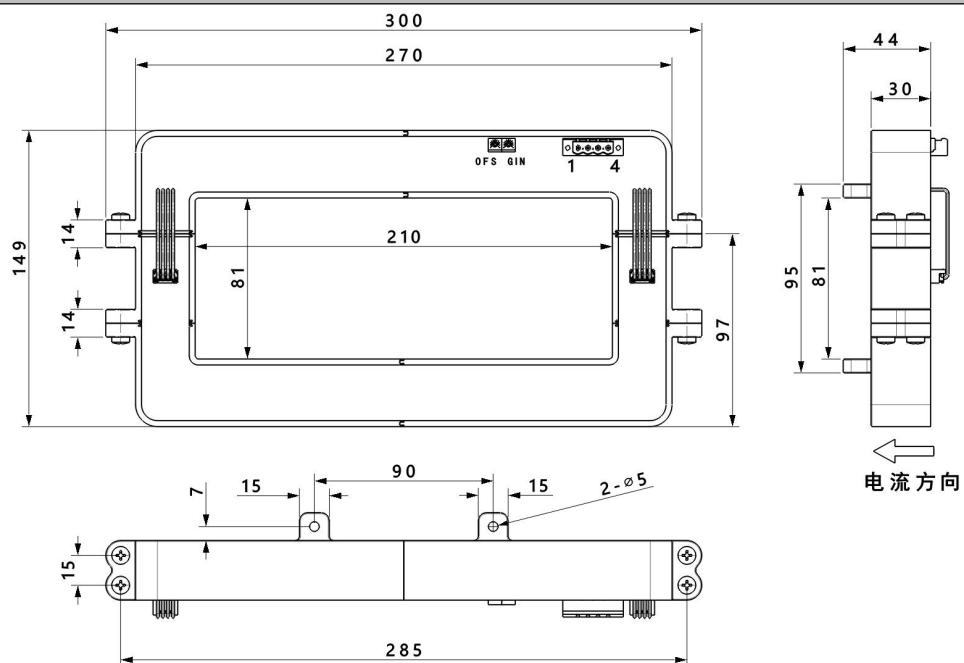
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.



Electrical characteristics

	Type	CS2000KUB	CS5000KUB	CS10000KUB	CS15000KUB	CS20000KUB	
I _{PN}	Primary nominal input current	2000	5000	10000	15000	20000	A
I _P	Measuring range of primary current	0~±3000	0~±6000	0~±12000	0~±18000	0~±22000	A
V _{OUT}	Nominal output voltage			5±1%			V
V _C	Supply voltage			±12~±15(±5%)			V
I _C	Current consumption	V _C =±15V		<50			mA
V _D	Insulation voltage	AC/50Hz/1min		6			kV
ε _L	Linearity			<1			%FS
V _O	Offset voltage	T _A =25°C		<±25			mV
V _{OM}	Residual voltage	I _{PN} →0		<±20			mV
V _{OT}	Thermal drift of V _O	I _P =0 T _A =-25~+85°C		<±1			mV/°C
T _R	Response time			≤10			μs
f	Frequency bandwidth(-3dB)			DC~6			kHz
T _A	Ambient operating temperature			-25~+85			°C
T _S	Ambient storage temperature			-25~+100			°C
R _L	Load resistance			≥10			KΩ
m	Mass			2480			g
	Standard			Q/320115QHKJ-2016			

Dimensions of drawing (mm)



Elucidation: 1:+15V 2:-15V 3:V_{OUT} 4:0V(GND) OFS:Zero adjustment GIN:Gain adjustment

Remarks

- Incorrect connection may lead to the damage of the sensor.
- V_{OUT} is positive when the I_P flows in the direction of the arrow.