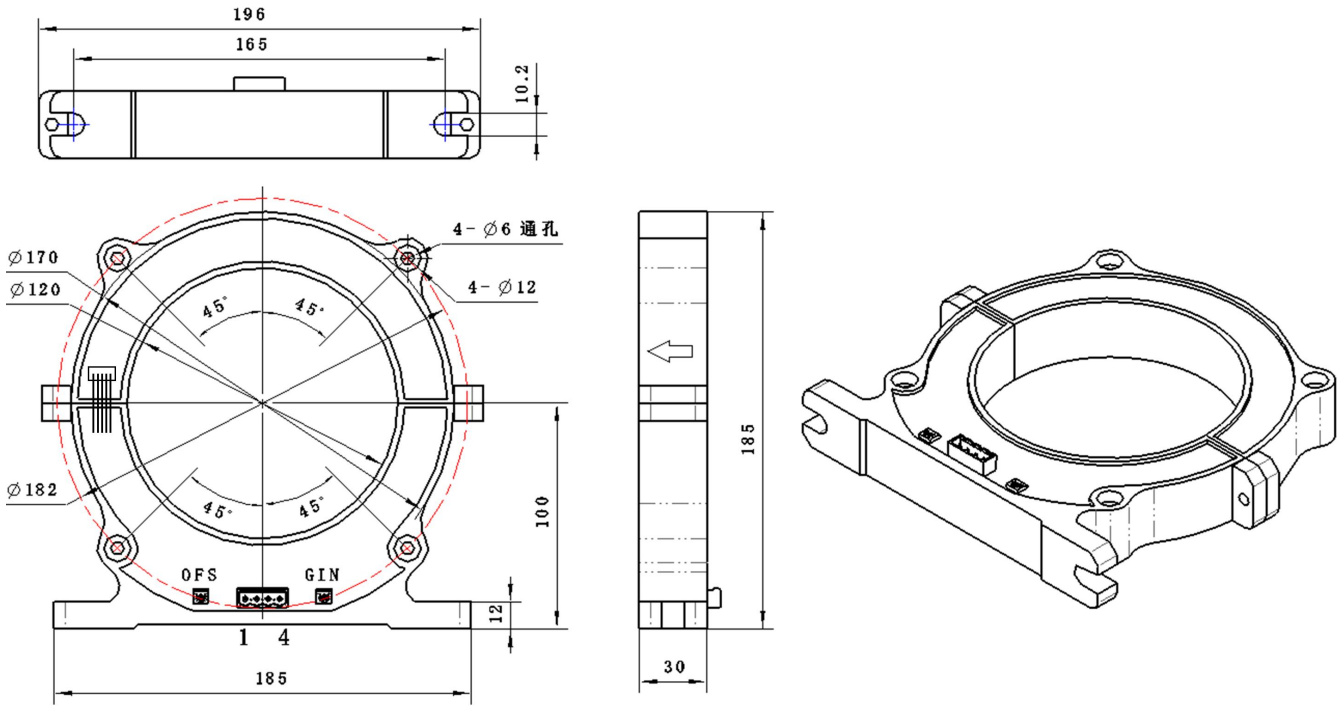
CS20000EKL
Hall-effect Current Sensor Series

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	CS500EKL	CS1000EKL	CS5000EKL	CS10000EKL	CS20000EKL	
I_{PN}	Primary nominal input current	500	1000	5000	10000	20000	A
I_P	Measuring range of primary current	0~±1000	0~±2000	0~±6000	0~±12000	0~±24000	A
V_{OUT}	Nominal output voltage	4±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℃		<±25			mV
V_{OM}	Residual voltage	I_{PN}→0		<±20			mV
V_{OT}	Thermal drift of V_0	I_P=0 T_A=–25~+85℃		<±1			mV/℃
T_R	Response time	≤10					μs
f	Frequency bandwidth(-3dB)	DC~6					kHz
T_A	Ambient operating temperature	–25~+85					℃
T_S	Ambient storage temperature	–25~+100					℃
R_L	Load resistance	≥10					KΩ
m	Mass	1160					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.