

®

CS10000KD

Hall-effect Current Sensor Series

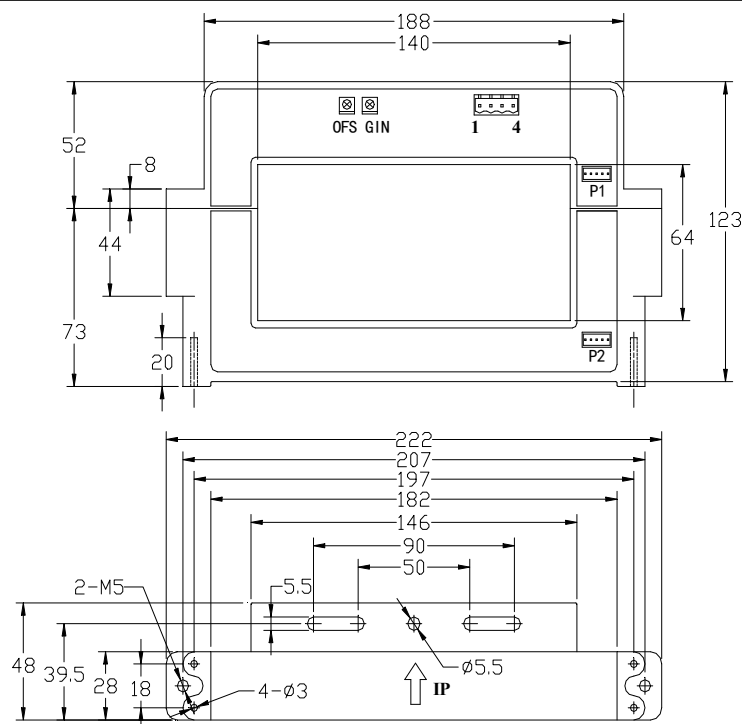
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.



Electrical characteristics

	Type	CS500KD	CS2500KD	CS5000KD	CS8000KD	CS10000KD	
I _{PN}	Primary nominal input current	500	2500	5000	8000	10000	A
I _P	Measuring range of primary current	0~±1000	0~±3000	0~±10000	0~±12000	0~±12000	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	1350					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.