



®

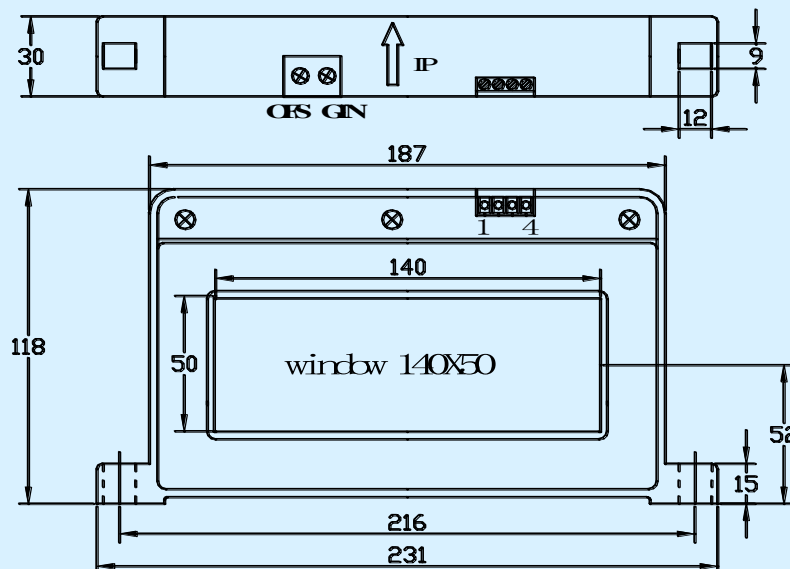
CS10000HB Hall-effect Current Sensor Series



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	CS2000HB	CS3000HB	CS5000HB	CS8000HB	CS10000HB		
I_{PN}	Primary nominal input current	2000	3000	5000	8000	10000	A
I_P	Measuring range of primary current	0~±1200	0~±5000	0~±7500	0~±10000	0~±12000	A
V_{OUT}	Nominal output voltage	4±1%					V
V_C	Supply voltage	±12~±15(±5%)					V
I_C	Current consumption	$V_C=±15V$	<25				mA
V_D	Insulation voltage	AC/50Hz/1min	6				kV
ϵ_L	Linearity	<1					%FS
V_O	Offset voltage	$T_A=25^\circ C$	<±25				mV
V_{OM}	Residual voltage	$I_{PN} \rightarrow 0$	<±30				mV
V_{OT}	Thermal drift of V_0	$I_P=0$ $T_A=-25\sim+85^\circ C$	<±1				mV/°C
T_R	Response time	≤7					μs
f	Frequency bandwidth(-3dB)	DC~3					kHz
T_A	Ambient operating temperature	-25~+85					°C
T_S	Ambient storage temperature	-40~+100					°C
R_L	Load resistance	≥10					KΩ
Standard		Q/320115QHJKJ-2010					

Dimensions of drawing (mm)



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

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.