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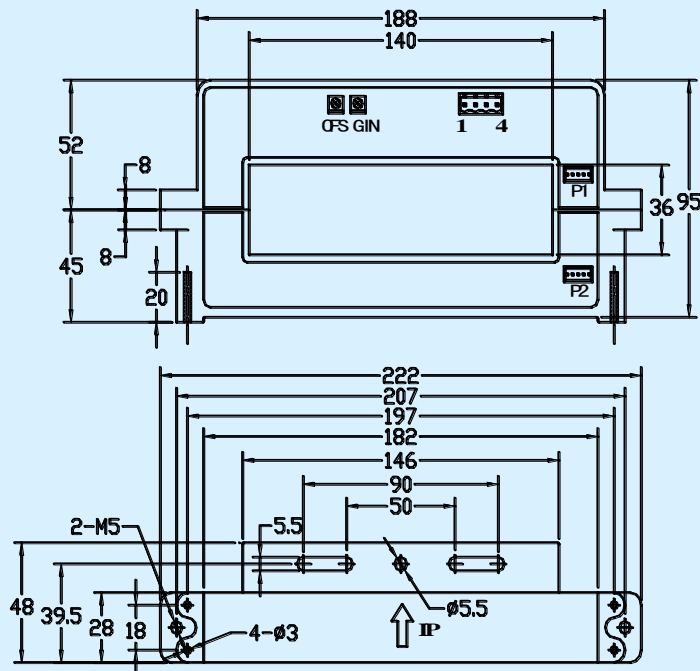
# CS10000KC Hall-effect Current Sensor Series



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	CS1000KC	CS3000KC	CS5000KC	CS8000KC	CS10000KC		
$I_{PN}$	Primary nominal input current	1000	3000	5000	8000	10000	A
$I_P$	Measuring range of primary current	0~±2000	0~±6000	0~±10000	0~±12000	0~±12000	A
$V_{OUT}$	Nominal output voltage	4±1%					V
$V_C$	Supply voltage	±15(±5%)					V
$I_C$	Current consumption	$V_C=±15V$	<35				mA
$V_D$	Insulation voltage	AC/50Hz/1min	2.5				kV
$\epsilon_L$	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 $V_O$	$I_P=0$	$T_A=-25 \sim +85^\circ C$		<±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/320115QHKJ01-2010					

## 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.

.When  $I_P$  is ≥3000A, Connector P1 and P2 will be connected together.