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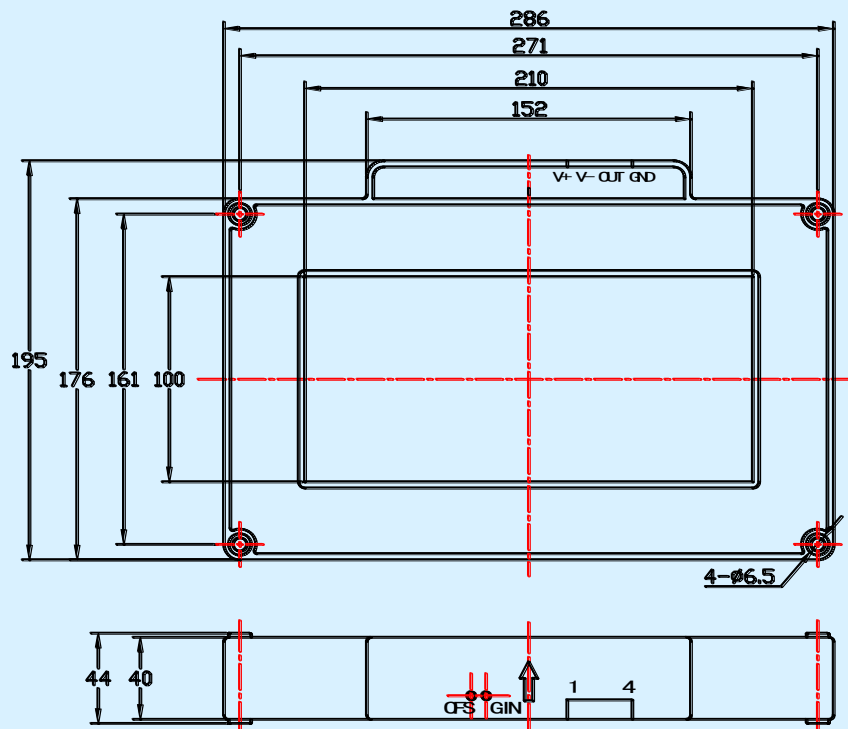
# CS20000HC Hall-effect Current Sensor Series



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	CS5000HC	CS7500HC	CS10000HC	CS15000HC	CS20000HC		
$I_{PN}$	Primary nominal input current	5000	7500	10000	15000	20000	A
$I_P$	Measuring range of primary current	0~±6000	0~±9000	0~±12000	0~±18000	0~±22000	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		2.5		kV	
$\epsilon_L$	Linearity	<1					%FS
$V_O$	Offset voltage	$T_A=25^\circ C$		<±25		mV	
$V_{OM}$	Residual voltage	$I_{PN} \rightarrow 0$		<±40		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	≤10					μs
f	Frequency bandwidth(-3dB)	DC~3					kHz
$T_A$	Ambient operating temperature	-25~+85					°C
$T_S$	Ambient storage temperature	-25~+100					°C
	Standard	Q/320115QHKJ-2010					

## Dimensions of drawing (mm)



Elucidation: 1:+15V 2:-15V 3: V<sub>OUT</sub> 4:0V(GND) OFS:Zero adjustment GIN:Gain adjustment

**Remarks**  
 Incorrect connection may lead to the damage of the sensor.  
 V<sub>OUT</sub> is positive when the I<sub>P</sub> flows in the direction of the arrow.