

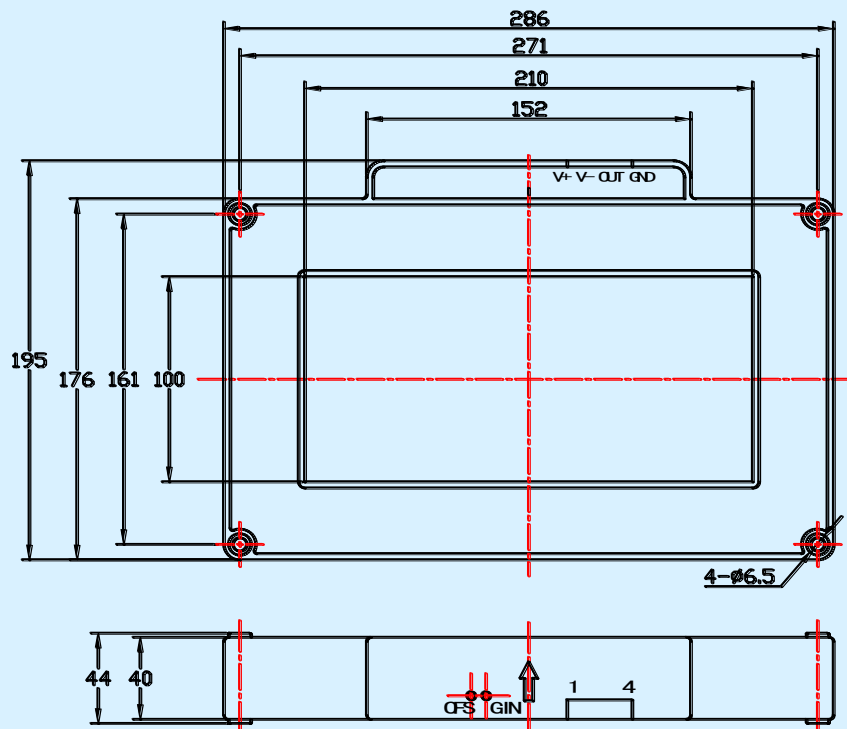
Hall-effect Current Sensor Series



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

Electrical characteristics							
Type	HCS5000D	HCS7500D	HCS10000D	HCS15000D	HCS20000D		
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	0-5V,0-10V,0-20mA,4-20mA					V/mA
V_C	Supply voltage	12/24(±5%)					V
I_C	Current consumption	$V_C=±15V$	<50				mA
V_D	Insulation voltage	AC/60Hz/1min			2.5		kV
ϵ_L	Linearity	<1					%FS
V_O	Offset voltage	$T_A=25^\circ C$		<±25			mV
V_{OM}	Residual voltage	$I_{PN} \rightarrow 0$		<±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_{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.