

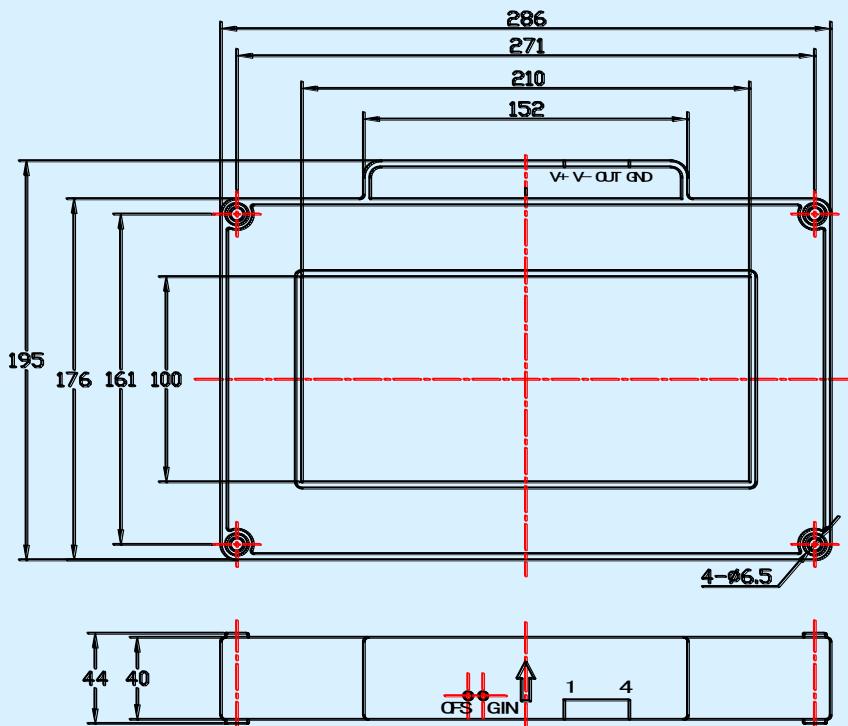
Hall-effect Current Sensor Series



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				
V _D	Insulation voltage	AC/60Hz/1min					kV
ε _L	Linearity	<1					%FS
V _O	Offset voltage	T _A =25°C	<±25				
V _{OM}	Residual voltage	I _{PN} →0	<±40				
V _{OT}	Thermal drift of V ₀	I _P =0 T _A =-25~+85°C	<±1				
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

If 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.