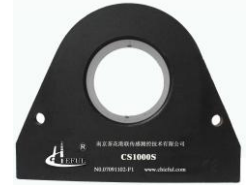




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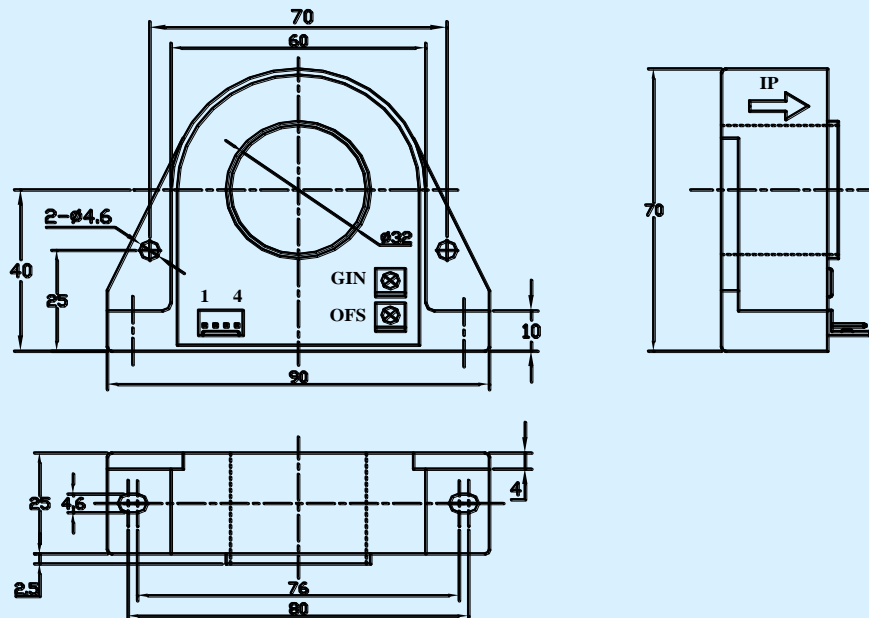
CS1000S Hall-effect Current Sensor Series

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	CS100S	CS200S	CS300S	CS400S	CS500S	CS600S	CS1000S		
I_{PN}	Primary nominal input current	100	200	300	400	500	600	1000	A
I_P	Measuring range of primary current	0~±300	0~±600	0~±900	0~±1200	0~±1200	0~±1200	0~±1200	A
V_{OUT}	Nominal output voltage	4±1%							V
V_C	Supply voltage	±15(±5%)							V
I_C	Current consumption	$V_C=±15V$		<25					mA
V_D	Insulation voltage	AC/50Hz/1min			3				kV
ϵ_L	Linearity	<1							%FS
V_O	Offset voltage	$T_A=25^\circ C$			<±25				mV
V_{OM}	Residual voltage	$I_{PN} \rightarrow 0$			<±25				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	≤5							μs
f	Frequency bandwidth(-3dB)	DC~20							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/3201CHGL02-2007							

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.