

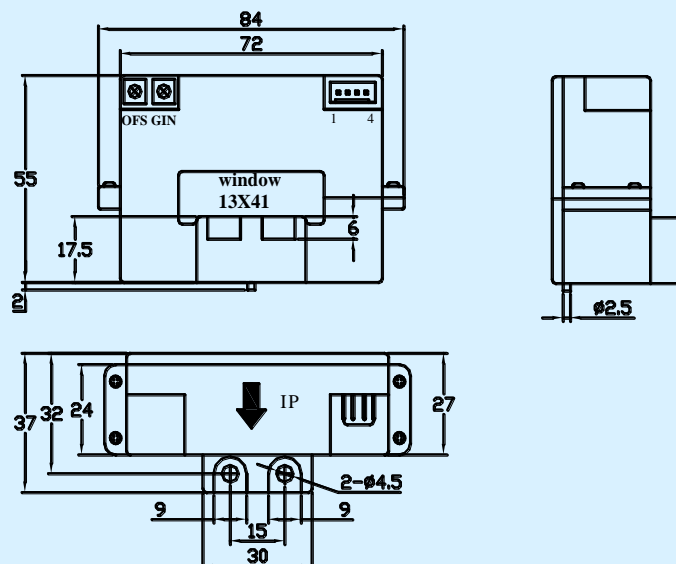
CS1000KF1 Hall-effect Current Sensor Series

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	CS200KF1	CS400KF1	CS600KF1	CS800KF1	CS1000KF1		
I_{PN}	Primary nominal input current	200	400	600	800	1000	A
I_P	Measuring range of primary current	0~±400	0~±800	0~±1200	0~±1600	0~±2000	A
V_{OUT}	Nominal output voltage	4±1%					V
V_C	Supply voltage	±12~±15(±5%)					V
I_C	Current consumption	$V_C=±15V$	<25				mA
V_D	Insulation voltage	AC/50Hz/1min	2.5				kV
ϵ_L	Linearity	<1					%FS
V_O	Offset voltage	$T_A=25^\circ C$	<±25				mV
V_{OM}	Residual voltage	$I_{PN} \rightarrow 0$	<±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	≤7					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
(Red:+15V Blue:-15V Yellow: V_{OUT} Black:0V)

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.