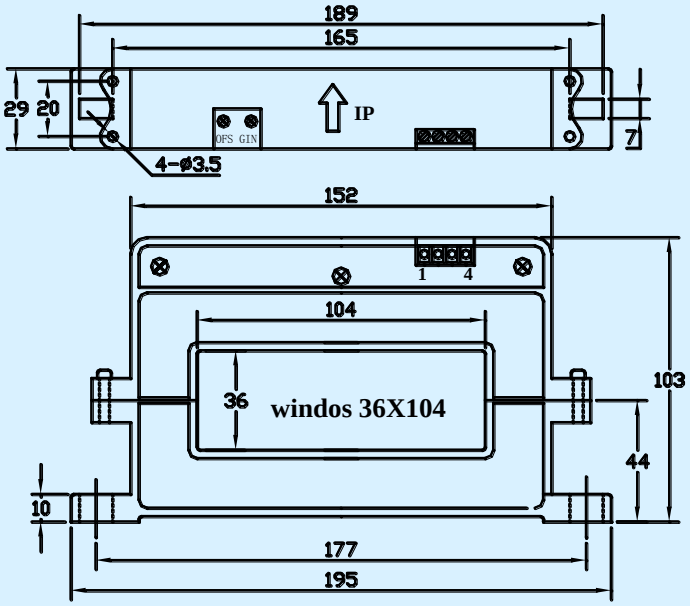
CS5000KA Hall-effect Current Sensor Series

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	CS600KA	CS1000KA	CS2000KA	CS3000KA	CS5000KA	
I_{PN}	Primary nominal input current	600	1000	2000	3000	5000	A
I_P	Measuring range of primary current	0～±1200	0～±2000	0～±4000	0～±6000	0～±7500	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		6			kV
ε_L	Linearity	<1					%FS
V_O	Offset voltage	T_A=25℃		<±25			mV
V_{OM}	Residual voltage	I_{PN}→0		<±30			mV
V_{OT}	Thermal drift of V_0	I_P=0 T_A=–25~+85℃		<±1			mV/℃
T_R	Response time	≤7					μs
f	Frequency bandwidth(-3dB)	DC~3					kHz
T_A	Ambient operating temperature	–25~+85					℃
T_S	Ambient storage temperature	–40~+100					℃
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.

Vout is positive when the I_P flows in the direction of the arrow.