



®

CS600BT5 Hall-effect Current Sensor Series

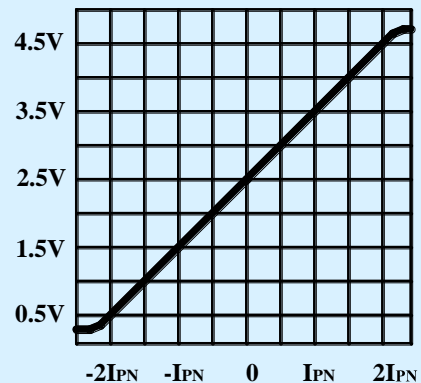
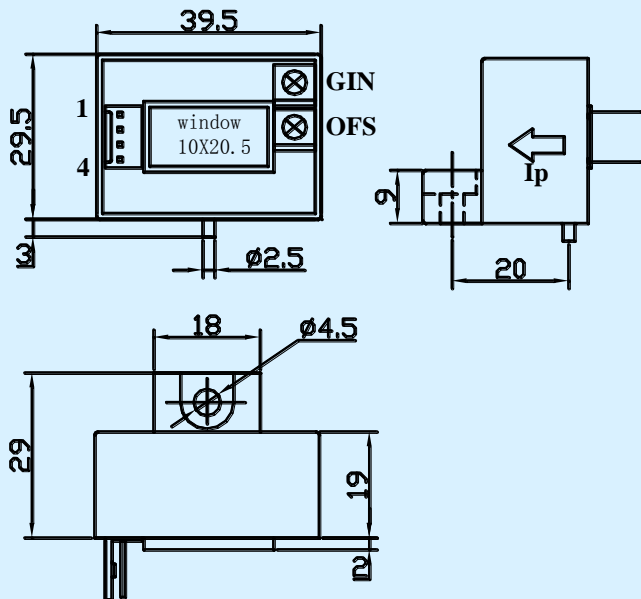


Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

Electrical characteristics										
	Type	CS030 BT5	CS050 BT5	CS100 BT5	CS200 BT5	CS300 BT5	CS400 BT5	CS500 BT5	CS600 BT5	
I_{PN}	Primary nominal input current	30	50	100	200	300	400	500	600	A
I_P	Measuring range of primary current	60	100	200	400	600	800	900	900	A
V_{OUT}	Nominal output voltage	1($\pm 1\%$) Or 2($\pm 1\%$)								V
V_C	Supply voltage	+5V($\pm 5\%$)								V
I_C	Current consumption	<25								mA
V_D	Insulation voltage	AC/50Hz/1min				2.5				kV
ϵ_L	Linearity	<1								%FS
V_O	Offset voltage	$T_A=25^\circ\text{C}$				2.5 $\pm 1\%$				V
V_{OM}	Residual voltage	$I_{PN}\rightarrow 0$				< ± 20				mV
V_{OT}	Thermal drift of V_O	$I_P=0$ $T_A=-25\sim+85^\circ\text{C}$				< ± 1				mV/ $^\circ\text{C}$
T_R	Response time	≤ 3								μs
f	Frequency bandwidth(-3dB)	DC~20								kHz
T_A	Ambient operating temperature	-25~+85								$^\circ\text{C}$
T_S	Ambient storage temperature	-40~+100								$^\circ\text{C}$
R_L	Load resistance	≥ 10								K Ω
	Standard	Q/3201CHGL02-2007								

Dimensions of drawing (mm)

Input current—Output voltage



Elucidation:1:+5V 2:No connection 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.