



CS040G Hall-effect Current Sensor Series

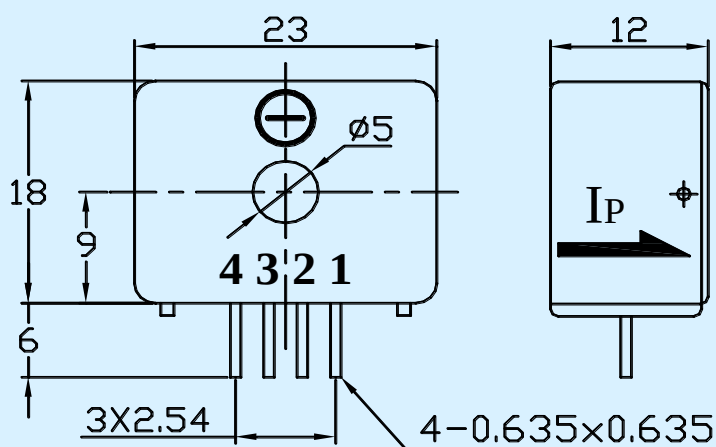


Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

Electrical characteristics

	Type	CS010G	CS020G	CS030G	CS040G	
I _{PN}	Primary nominal input current	10	20	30	40	A
I _P	Measuring range of primary current	0~±20	0~±40	0~±60	0~±80	A
V _{OUT}	Nominal output voltage	1±1%				V
V _C	Supply voltage	±12~±15(±5%)				V
I _C	Current consumption	V _C =±15V	<20			mA
V _D	Insulation voltage	AC/50Hz/1min	2.5			kV
ε _L	Linearity	<1				%FS
V _O	Offset voltage	T _A =25℃	<±20			mV
V _{OM}	Residual voltage	I _{PN} →0	<±10			mV
V _{OT}	Thermal drift of V ₀	I _P =0 T _A =-25~+70℃	<±1			mV/℃
T _R	Response time	≤3				μs
f	Frequency bandwidth(-3dB)	DC~20				kHz
T _A	Ambient operating temperature	-25~+70				℃
T _S	Ambient storage temperature	-40~+85				℃
R _L	Load resistance	≥10				KΩ
	Standard	Q/3201CHGL02-2007				

Dimensions of drawing (mm)



Elucidation: 1:+15V 2:0V(GND) 3: V_{OUT} 4:-15V

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.