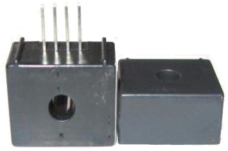
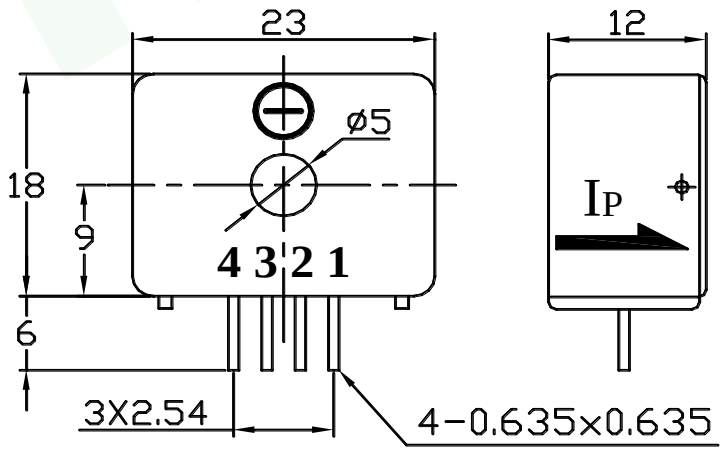
MCS040G Hall-effect Current Sensor Series



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	MCS010G	MCS020G	MCS030G	MCS040G	
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(±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_0	Offset voltage	T_A =25℃	<±20			V
V_{OM}	Residual voltage	I_{PN}→0	<±10			mV
V_{OT}	Thermal drift of V_0	I_{PN}=0 T_A =-25～+85℃	<±1			mV/℃
T_R	Response time	≤3				ms
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.**