



CS500E Hall-effect Current Sensor Series

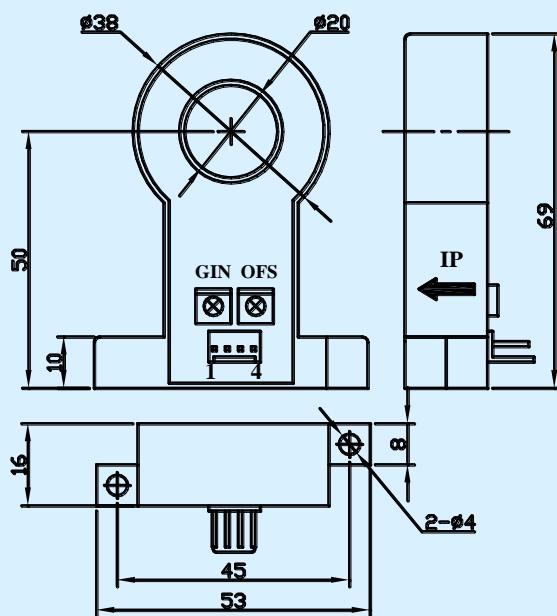
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.



Electrical characteristics

Type	CS050E	CS100E	CS200E	CS300E	CS400E	CS500E	
I _{PN} Primary nominal input current	50	100	200	300	400	500	A
I _P Measuring range of primary current	0~±100	0~±200	0~±400	0~±600	0~±800	0~±800	A
V _{OUT} Nominal output voltage				4±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°C			<±25			mV
V _{OM} Residual voltage	I _{PN} →0			<±20			mV
V _{OT} Thermal drift of V ₀	I _P =0 T _A =-25~+85°C			<±1			mV/°C
T _R Response time				≤3			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

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.