

CS600EKG Hall-effect Current Sensor Series

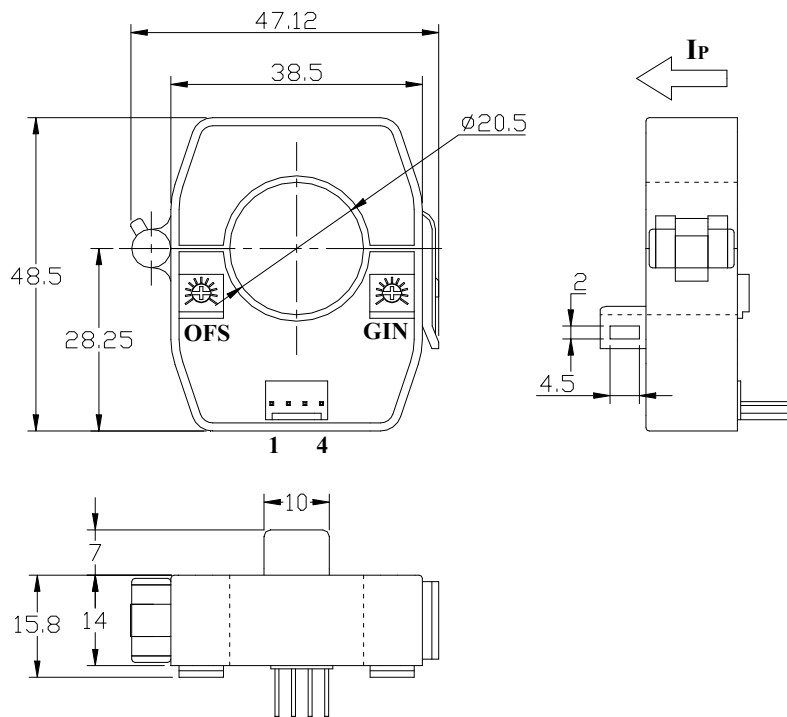


Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.

Electrical characteristics

	Type	CS100EKG	CS200EKG	CS300EKG	CS500EKG	CS600EKG	
I_{PN}	Primary nominal input current	100	200	300	500	600	A
I_P	Measuring range of primary current	$0 \sim \pm 200$	$0 \sim \pm 400$	$0 \sim \pm 600$	$0 \sim \pm 1000$	$0 \sim \pm 1200$	A
V_{OUT}	Nominal output voltage	$4(\pm 1\%)$					V
V_C	Supply voltage	$\pm 12 \sim \pm 15(\pm 5\%)$					V
I_C	Current consumption	25					mA
V_d	Insulation voltage	AC/50Hz/1min					kV
ϵ_L	Linearity	± 1					%FS
V_0	Offset voltage	$T_A = 25^\circ\text{C}$					mV
V_{OM}	Residual voltage	$I_{PN} \rightarrow 0$					mV
V_{OT}	Thermal drift of V_0	$I_{PN}=0 \quad T_A = -25 \sim +85^\circ\text{C}$					mV/ $^\circ\text{C}$
T_r	Response time	≤ 7					μs
f	Frequency bandwidth(-3dB)	DC $\sim$ 20					kHz
T_A	Ambient operating temperature	$-25 \sim +85$					$^\circ\text{C}$
T_S	Ambient storage temperature	$-40 \sim +100$					$^\circ\text{C}$
R_L	Load resistance	$\geq 10\text{K}$					Ω
m	Mass	50					g
	Standard	Q/320115QHKJ01-2010					

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.