



CS500EK1T Hall-effect Current Sensor Series

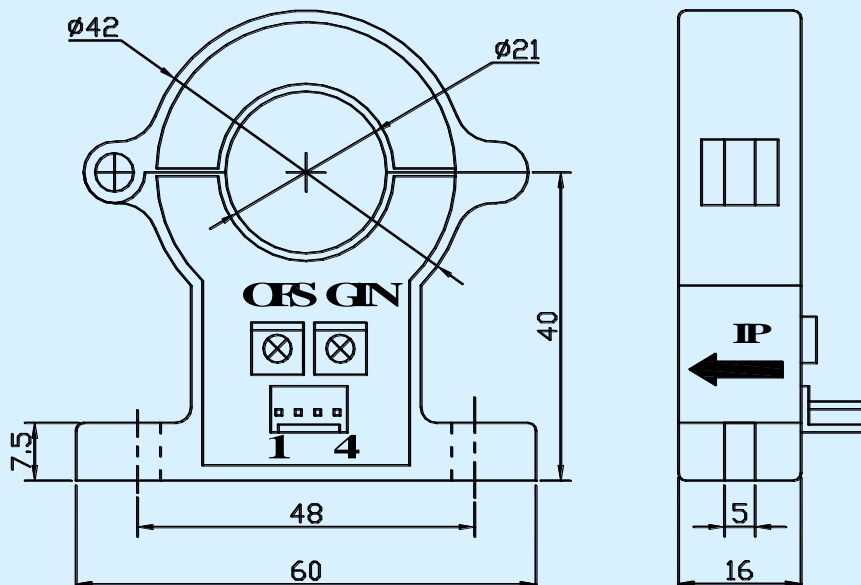
Open loop current sensor based on the principle of Hall-effect. It can be used for measuring AC,DC,pulsed and mixed current.



Electrical characteristics

Type	CS100EK1T	CS200EK1T	CS300EK1T	CS400EK1T	CS500EK1T	
I_{PN} Primary nominal input current	100	200	300	400	500	A
I_P Measuring range of primary current	0~200	0~400	0~600	0~800	0~1000	A
I_{OUT} Secondary nominal output current	20($\pm 1\%$)					mA
R_M Measuring resistance	80~450					Ω
V_C Supply voltage	+24($\pm 5\%$)					V
I_C Current consumption	$25+I_{OUT}$					mA
V_D Insulation voltage	AC/50Hz/1min	3				kV
ϵ_L Linearity	<1					%FS
I_O Zero offset current	$T_A=25^\circ\text{C}$	4 ± 0.1				mA
I_{OT} Thermal drift of I_O	$I_P=0$ $T_A=-25\sim+85^\circ\text{C}$	<0.005				mA/ $^\circ\text{C}$
T_R Response time	≤ 7					μs
f Frequency bandwidth(-3dB)	DC~20					kHz
T_A Ambient operating temperature	$-25\sim+85$					$^\circ\text{C}$
T_S Ambient storage temperature	$-40\sim+100$					$^\circ\text{C}$
m Mass	70					g
Standard	Q/320115QHKJ01-2010					

Dimensions of drawing (mm)



Note: 1:+24V 2:NC 3: I_{OUT} 4:0V(GND) OFS:Zero adjustment GIN:Gain adjustment

Remarks

Incorrect connection may lead to the damage of the sensor.

I_{OUT} is positive when the I_P flows in the direction of the arrow.