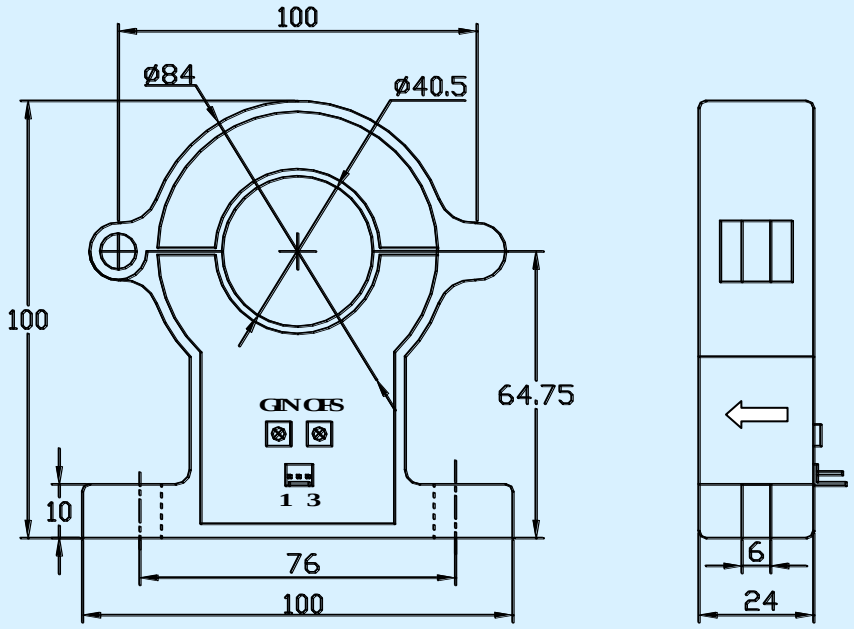
CS2000EK2T Hall-effect Current Sensor Series

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	CS300EK2T	CS500EK2T	CS1000EK2T	CS1500EK2T	CS2000EK2T	
I_{PN}	Primary nominal input current	300	500	1000	1500	2000	A
I_P	Measuring range of primary current	0～600	0～1000	0～2000	0～2250	0～2500	A
I_{OUT}	Secondary nominal output current	20(±1%)					mA
R_M	Measuring resistance	80~450					Ω
V_C	Supply voltage	+24(±5%)					V
I_C	Current consumption	$25+I_{OUT}$					mA
V_D	Insulation voltage	AC/50Hz/1min		5			kV
ε_L	Linearity	<1					%FS
I_O	Zero offset current	T_A=25℃		4±0.1			mA
I_{OT}	Thermal drift of I_O	I_P=0 T_A=–25~+85℃		<0.005			mA/℃
T_R	Response time	≤7					μs
f	Frequency bandwidth(-3dB)	DC~10					kHz
T_A	Ambient operating temperature	–25~+85					℃
T_S	Ambient storage temperature	–40~+100					℃
m	Mass	300					g
	Standard	Q/320115QHKJ01-2010					

Dimensions of drawing (mm)



Note: 1:+24V 2:0V(GND) 3: I_{OUT} 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.