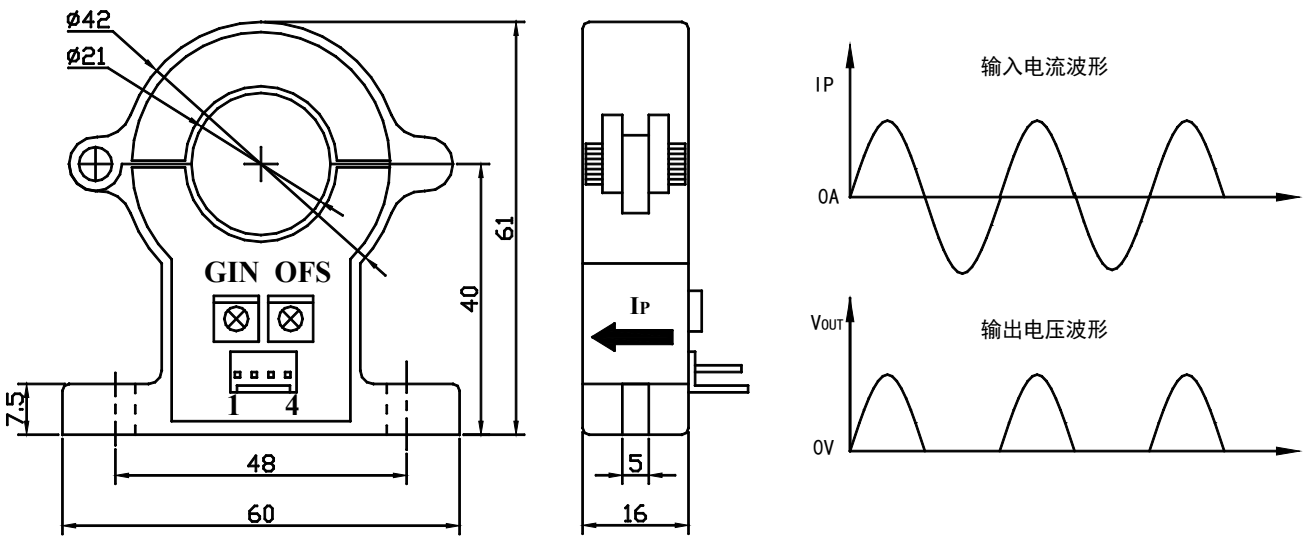
LO500EK1 Hall effect current sensor

Current sensors that apply the open-loop principle of the Hall effect can measure direct current, alternating current, pulse, and various irregular waveforms under electrically isolated conditions.

Electric specs								
	P/N	LO50EK1	LO100EK1	LO200EK1	LO300EK1	LO400EK1	LO500EK1	
I_{PN}	Rated primary current	50	100	200	300	400	500	A
I_P	Primary current range	0～100	0～200	0～400	0～600	0～800	0～1000	A
V_{OUT}	Rated secondary output voltage	4±1% or 5±1%						V
V_C	Power supply	12～24(±5%)						V
I_C	Current consumption	V_C=15V		<25				mA
V_d	Dielectric strength	P-S:AC3kV/50Hz/60S						
ε_L	Linearity	<1						%FS
V_0	Zero point offset voltage	T_A=25℃		<25				mV
V_{OM}	Magnetic offset voltage	I_{PN}→0		<±25				mV
V_{OT}	Temperature drift	I_P=0 T_A=-25～+85℃		<±1				mV/℃
Tr	Response time	≤7						μs
f	Frequency band width(-3dB)	DC～20						kHz
T_A	Operating temperature	-25～+85						℃
T_S	Storage temperature	-40～+100						℃
R_L	Load resistor	≥10K						Ω
m	Weight(about)	68						g
	Standard	Q/320115QHKJ01-2013						

Dimensions（mm）



Output： **PIN**1:VC PIN2: 0V(Ground) PIN3: V_{OUT} PIN4: 0V(Ground) OFS: Adjust zero point GIN: Adjust output amplitude

Instructions

1.Incorrect wiring may lead to sensor damage. Once powered, when the measured current flows through the sensor in the direction of the arrow, a corresponding voltage value will be measured at the output.

2.The output amplitude of the sensor can be adjusted according to user requirements.

3.Sensors with different rated input currents and output voltages can be customized based on user needs.