



**Open Loop Hall AC/DC Current Sensor**

LO-HAOL-EK series current sensor is an open loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit. It provides accurate electronic measurement of DC, AC or pulsed currents.

**Product Features:**

- Excellent accuracy
- Very good linearity
- Optimized response time
- No insertion losses
- High immunity to external interference
- Low temperature drift

**Application:**

- Photovoltaic equipment
- General Purpose Inverters
- AC/DC Variable Speed Drivers
- Battery Supplied Applications
- Uninterruptible Power Supplies
- Switched Mode Power Supplies

**Electric Specifications**

Items	P/N									Unit
	LO-HAOL-EK100	LO-HAOL-EK200	LO-HAOL-EK500	LO-HAOL-EK800	LO-HAOL-EK1000	LO-HAOL-EK1500	LO-HAOL-EK1800	LO-HAOL-EK2000		
Rated input (I <sub>pn</sub> )	±100	±200	±500	±800	±1000	±1500	±1800	±2000		A
Measuring range (I <sub>p</sub> )	±110	±220	±550	±880	±1100	±1650	±1980	±2200		A
Rated output Voltage	±2.0±1% @ I <sub>p</sub> =±I <sub>pn</sub>									V
Zero voltage	2.5±0.6% @ I <sub>p</sub> =0									V
Supply voltage	+5.0±5%									V
Power consumption current	≤20									mA
Offset voltage drift	≤±0.7									mV/°C
Output voltage drift	≤±1.0									mV/°C
Linearity	≤1 @I <sub>p</sub> =0-±I <sub>pn</sub>									%FS
Response time	≤5.0									us
Band width	DC-25 @-3dB									KHz
Dielectric strength	AC2.5KV 50Hz 60s									KV

**Instructions**

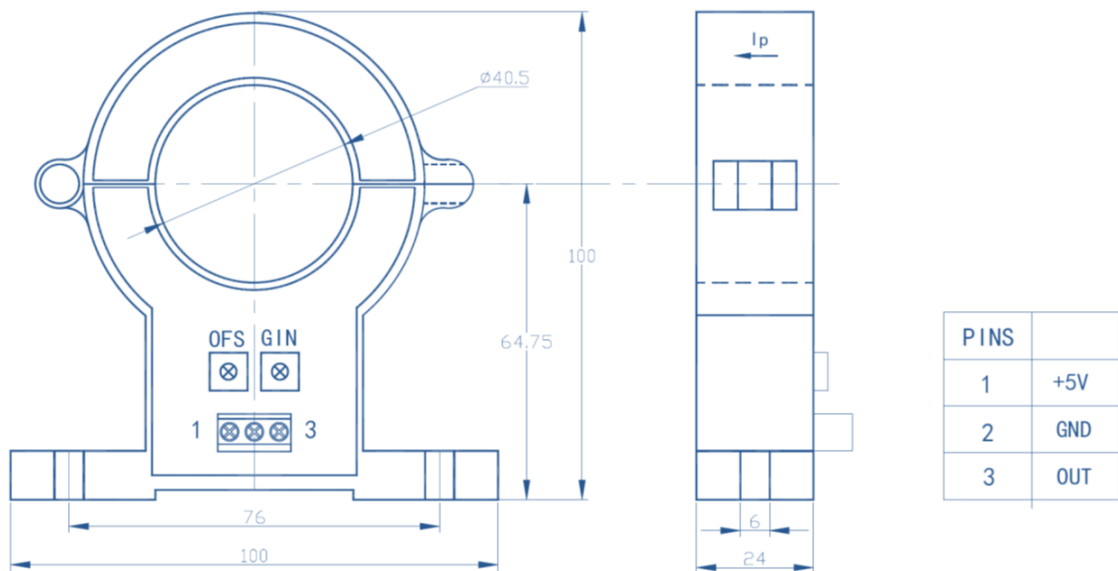
1. Incorrect wiring may cause the damage of sensor.
2. When the measured current through the center hole of the sensor, the current will be measured at the output end.
3. The dynamic performance (di/dt and the response time) is the best when the primary hole is fully filled with the bus bar.
4. User can adjust the output extent of sensor if necessary.
5. Rated input current and output voltage of sensor can be customized.

**Standards**

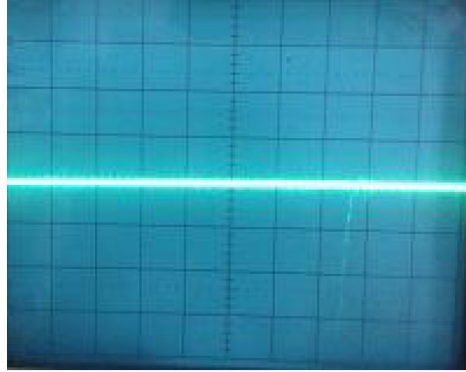
- IEC61010-1
- EN50178
- IEC61800-5-1
- UL94V-0
- RoHS Reach

Operating Conditions			
	Value	Unit	Symbol
Operating temperature	-40°C~+105°C	°C	TA
Storage temperature	-40°C~+125°C	°C	TA
Weight(Appro)	283	g	M

**Dimensions: Unit:mm**



*Output signal performance:*



*Output voltage*

Immunity to impulse voltage interference