Split-core type Hall AC Current Transducer

LO-HEFK-140 series current transducer is an open loop device based on the measuring principle of the hall effect, The current sensor based on the open-loop Hall effect principle can measure DC, AC, pulse, and various irregular current waveforms under electrical isolation.

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

P/N / Items	LO-HEFK-140 AC300	LO-HEFK-140 AC500	LO-HEFK-140 AC1000	LO-HEFK-140 AC2000	LO-HEFK-140 AC3000	Unit
Rated input (Ipn)	1000	2000	3000	8000	10000	A
Measuring range (Ip)	0~±2000	0~±4000	0~±6000	0~±12000	0~±12000	A
Rated output Voltage	4.0±1% or Customized					V
Zero offset voltage	<±25mV @ Ta=25℃					mV
Supply voltage	±15.0±5%					V
Power consumption current	⩽35 @ Vc=15.0V					mA
Offset voltage drift	⩽±1.0 @Ip=0 Ta=-25 to 85℃					mV/℃
Magnetic Offset Voltage	⩽±30 @Ipn → 0					mV
Linearity	⩽1					%FS
Response time	⩽7.0					us
Band width	DC-3 @-3dB					KHz
Dielectric strength	AC6.0KV 50Hz 60s					KV

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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.

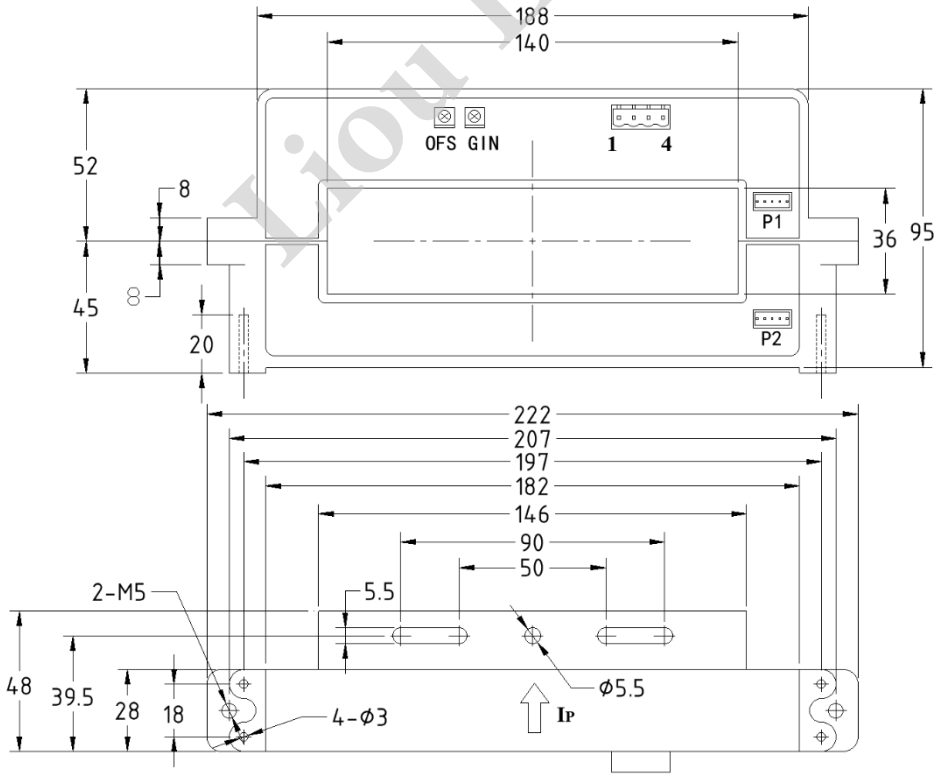
5.Rated input current and output voltage of sensor can be customized.

Standards

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

Operating Conditions			
	Value	Unit	Symbol
Operating temperature	-40℃~+105℃	℃	TA
Storage temperature	-40℃~+125℃	℃	TA
Weight (Appro)	1220	g	M

Dimensions: Unit:mm



Terminal Output Version:

1 — +15V

2 — –15V

3 — VOUT

4 — 0V (Power Ground)

OFS — Zero Offset Adjustment

GIN — Gain Adjustment

Lead-Wire Output Version:

Red — +15V

Blue — –15V

Yellow — VOUT

Black — 0V (Power Ground)

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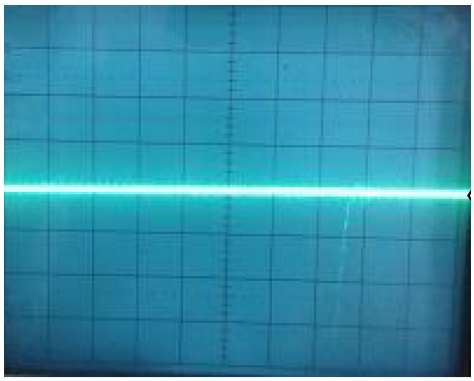
Output signal performance:



Output voltage

Immunity to impulse voltage interference

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