



TKC-LTH 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, the size of primary doesn't affect test precision, no matter the location of primary in the hole of current sensor. It is used for precision measurement of DC, AC and pulse current.

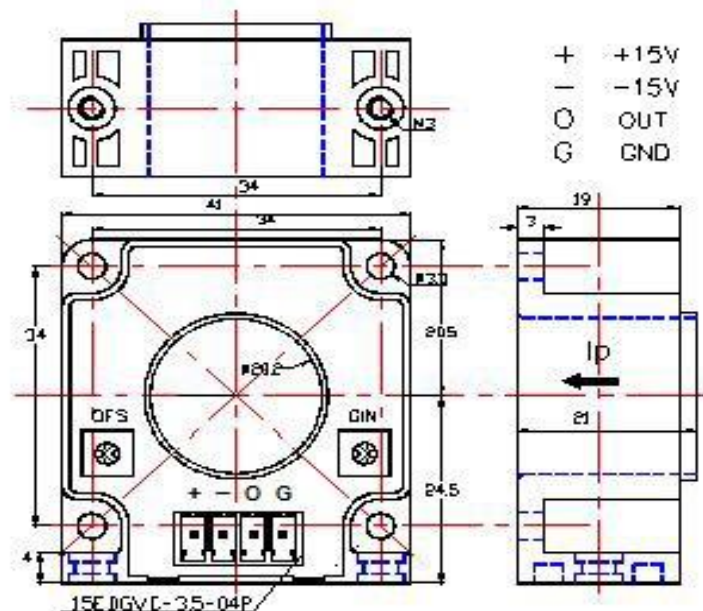
Electrical data (Ta=25°C±5°C, RL=2KΩ, CL=10000PF)

Parameter \ Type	TKC 10LTH	TKC 20LTH	TKC 50LTH	TKC 75LTH	TKC 100LTH	TKC 200LTH	TKC 300LTH	TKC 500LTH	Unit
Rated input (I _{pn})	±10	±20	±50	±75	±100	±200	±300	±500	A
Measure range (I _p)	±30	±60	±150	±225	±300	±500	±600	±1000	A
Rated output	±4±0.2%FS								V
Supply voltage	±15 ±5%								V
Power Consumption	+38,-18								mA
Zero offset voltage	≤±10								mV
Magnetic Offset voltage	±15	±10							mV
Offset voltage drift	≤±0.2	≤±0.1							mV/°C
Output drift	≤±0.5	≤±0.3							mV/°C
Linearity	@I _p =0-±I _{pn}			≤0.2					%FS
Response time	@50A/μ S, 90%			≤3					μ s
Band-width	@-3dB			DC-25					KHz
Galvanic isolation	@ 50Hz, AC,1min			2.5					KV

Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

Mechanical dimension (for reference only)



Remarks :

1. All dimensions are in mm.
2. General tolerance $\pm 1\text{mm}$.

Directions for use

1. When the current will be measured goes through a sensor, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the sensor)
2. Customs can adjust Output amplitude of the sensor by needs.
3. Custom design in the different rated input current and the output voltage are available.

Standards

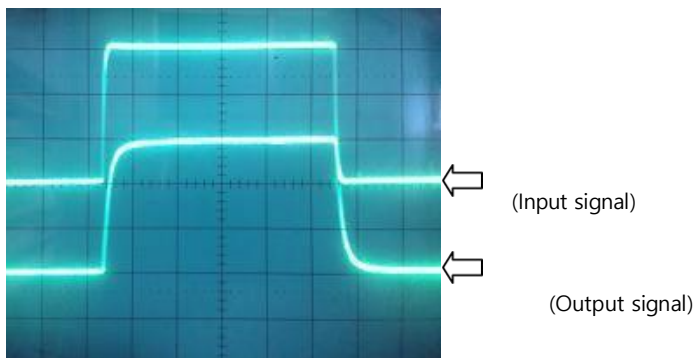
- UL94-V0
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	65	g	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise

