



TKC-K series dismountable current sensor is an open loop device based on the measuring principle of the hall effect. It can measure DC、AC pulse and various irregular wave currents in electrical isolation conditions.

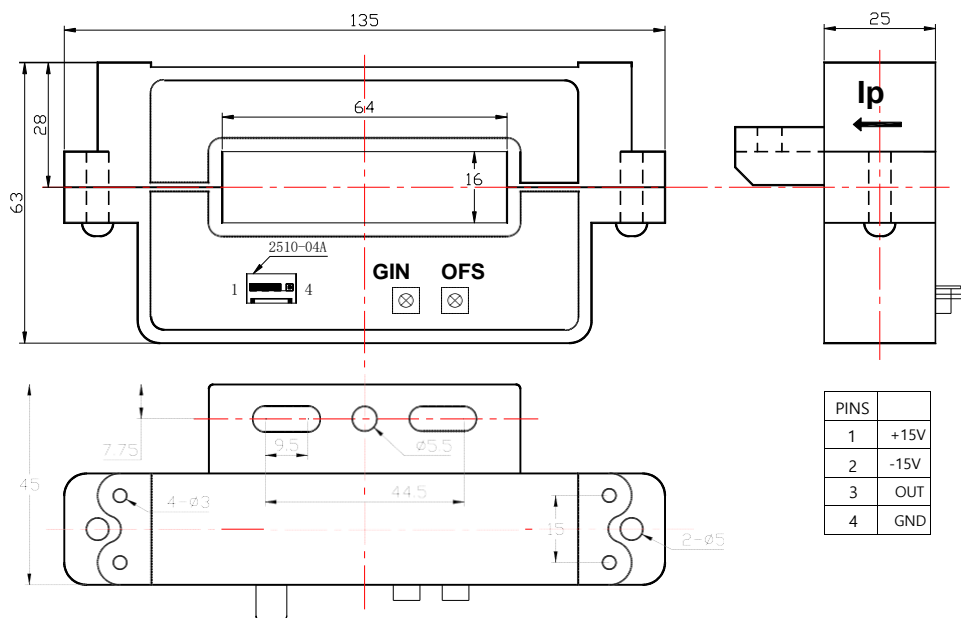
Electrical data (Ta=25°C±5°C, RL=2KΩ, CL=10000PF)

Parameter \ Type	TKC 400K	TKC 600K	TKC 800K	TKC 1000K	TKC 1200K	TKC 1600K	TKC 2000K	TKC 2500K	TKC 3000K	Unit
Rated current (I _{pn})	±400	±600	±800	±1000	±1200	±1600	±2000	±2500	±3000	A
Measuring range (I _p)	±800	±1200	±1600	±2000	±2400	±3000	±3000	±4000	±4500	A
Rated output	@I _p =±I _{pn} ±4±1%									V
Supply voltage	±15±5%									V
Power Consumption	+25,-10									mA
Offset voltage	@I _p =0 ±20									mV
Magnetic offset	@I _p =±I _{pn} -0 ±30									mV
Offset drift	≤±0.5									mV/°C
output drift	≤±0.5									mV/°C
Linearity	@I _p =0-±I _{pn} ≤1									%FS
Response time	@50A/μS, 10%-90% ≤7									μS
Band-width	@-3dB DC-25									KHz
Galvanic isolation	@ 50Hz,AC,1min 6									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

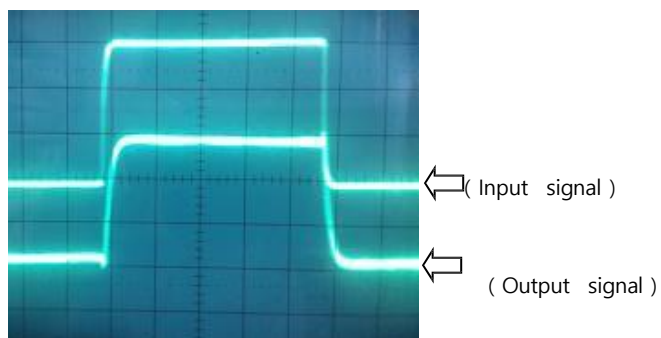
UL94-V0
 EN60947-1:2004
 IEC60950-1:2001
 EN50178:1998
 SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	417	g	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise

