



TKC-EKAA2410 series dismountable hall effect 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.

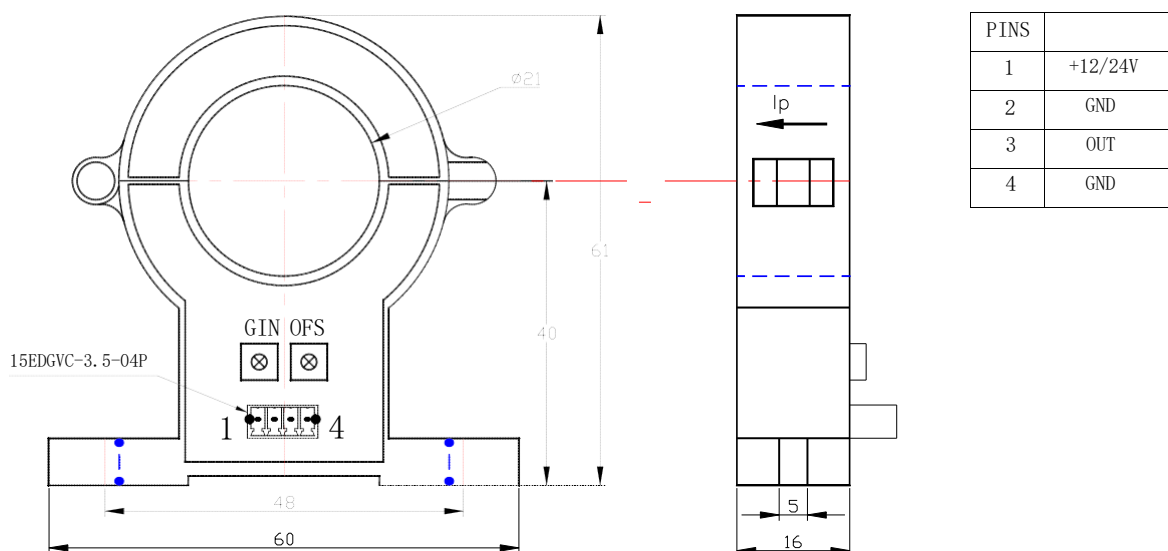
Electrical data (Ta=25°C±5°C, RL=250Ω, CL=10000PF)

Type Parameter	TKC50 EKAA2410	TKC100 EKAA2410	TKC300 EKAA2410	TKC400 EKAA2410	TKC500 EKAA2410	Unit
Rated current (I _{pn})	±50	±100	±300	±400	±500	A
Measuring range (I _p)	-50-+100	-100-+200	-300-+600	-400-+800	-500-+1000	A
Rated output (I _o)	@I _p =±I _{pn} 10±10±1%					mA
Supply voltage	+24 ±10%					V
Power Consumption	+35+I _o					mA
Offset current	@I _p =0 0.1					mA
Magnetic offset	@I _p =±I _{pn} -0 0.1					mA
Offset drift	≤±0.005					mA/°C
output drift	≤±0.005					mA/°C
Linearity	@I _p =0-±I _{pn} ≤1					%FS
Response time	@50A/μS, 10%-90% ≤5					μS
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 ± 1 mm.

Directions for use

1. When the current will be measured goes through a sensor, The current will be measured at the output end. (Note: The false wiring may result in the damage of the sensor).
2. The output amplitude of the sensor can be adjusted according to users' requirements.
3. Custom design in the different rated input current and the output current available.

Standards

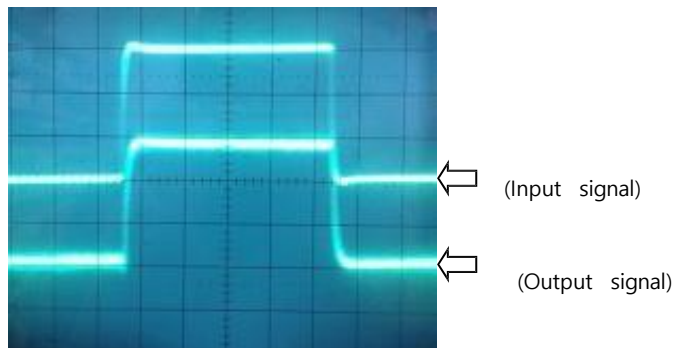
UL94-V0
EN60947-1:2004
IEC60950-1:2001
EN50178:1998
SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	71	g	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise

