



TKC-EKAA248 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.

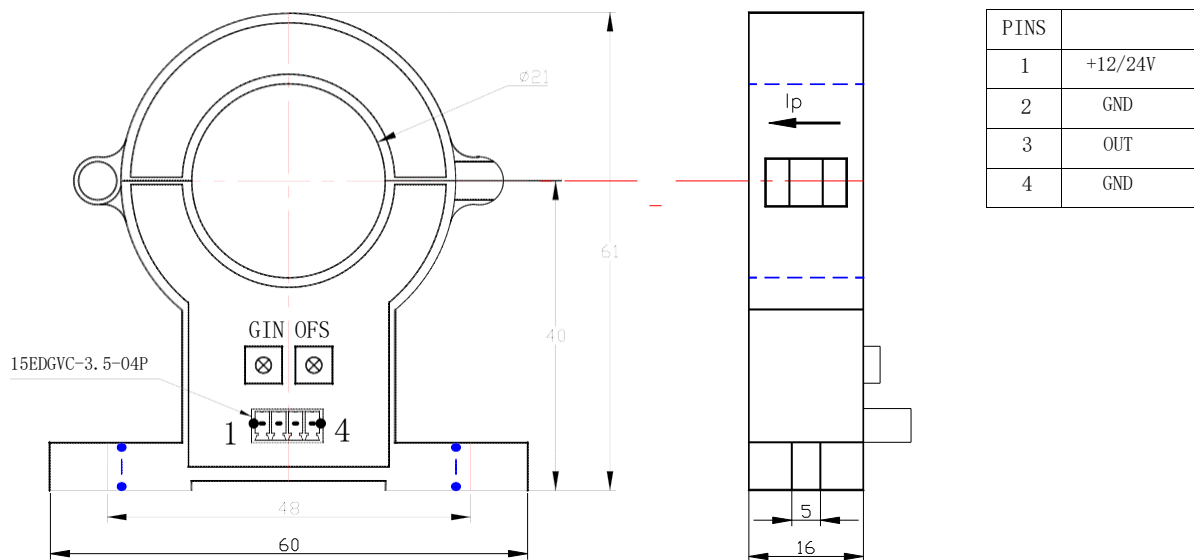
**Electrical data (Ta=25 °C±5°C, RL=250Ω, CL=10000PF)**

Type Parameter	TKC20 EKAA248	TKC50 EKAA248	TKC100 EKAA248	TKC200 EKAA248	TKC300 EKAA248	TKC400 EKAA248	TKC500 EKAA248	Unit
Rated input (Ipn)	±20	±50	±100	±200	±300	±400	±500	A
Measure range(Ip)	±25	±60	±120	±240	±360	±480	±600	A
Rated output (Io)	@Ip=0-±Ipn 12±8±1%							mA
Supply voltage	+24±5%							V
Power consumption	+35±Io							mA
Zero current	@Ip=0 12±1%							mA
Magnetic offset	@Ip=±Ipn -00.1							mA
Offset drift	≤±0.005							mA/
Output drift	≤±0.005							mA/
Linearity	@Ip=0-±Ipn ≤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  $\pm 1$ 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

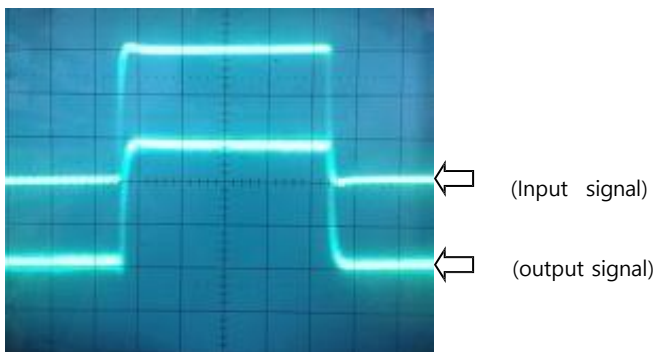
- UL94-V0
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ20790-2000

## 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  
noise



Effects of impulse

