



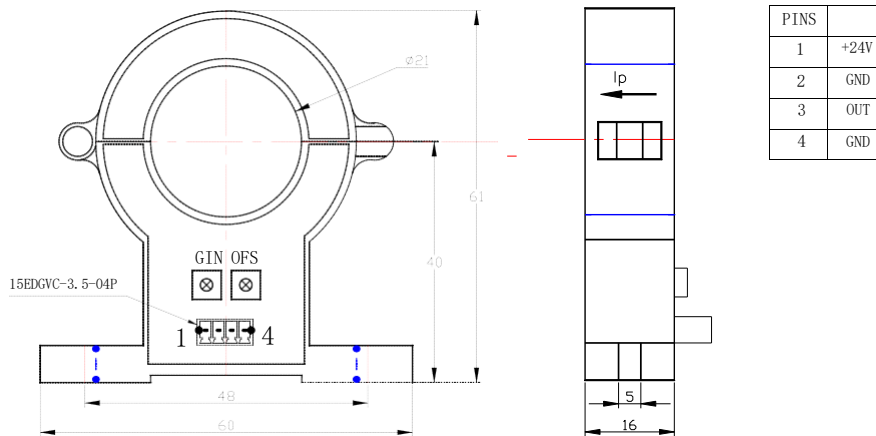
TKC-EKA420/24 series dismountable hall effect current sensor is an open loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit, it provides accurate electronic measurement of DC, AC or pulsed currents.

Electrical data (Ta=25°C±5°C, RL=250Ω, CL=10000PF)						
Type Parameter	TKC50EKA 420/24	TKC100EKA 420/24	TKC200EKA 420/24	TKC400EKA 420/24	TKC500EKA 420/24	Unit
Rated input (Ipn)	50	100	200	400	500	A
Measure range(Ip)	-12.5 ~ +100	-25 ~ +200	-50 ~ +400	-100 ~ +800	-125 ~ +1000	A
Rated output (Io)	@Ip=0-+Ipn 4 ~ 20±1%					mA
Supply voltage	+24±5%					V
Consumption	+35±Io					mA
Zero current	@Ip=0 4±0.1					mA
Magnetic offset	@Ip=+Ipn-0 0.1					mA
Offset drift	≤±0.05					mA/°C
output drift	≤±0.05					mA/°C
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 $\pm 1\text{mm}$.

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.

TKC-EKA420/24 Series Open Loop Mode Dismountable Hall Effect Current Sensor

Standards

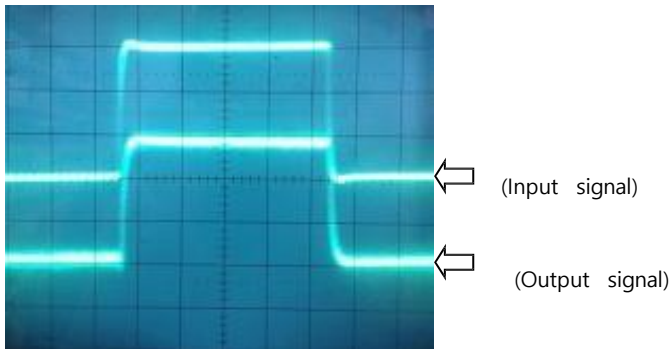
UL94-V0
 EN60947-1:2004
 IEC60950-1:2001
 EN50178:1998
 SJ 20790-2000

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

