TKC-EKAD Series Open Loop Mode Dismountable Hall Effect Current Transmitter

TKC-EKAD series dismountable current transmitter 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 AC or pulsed currents.

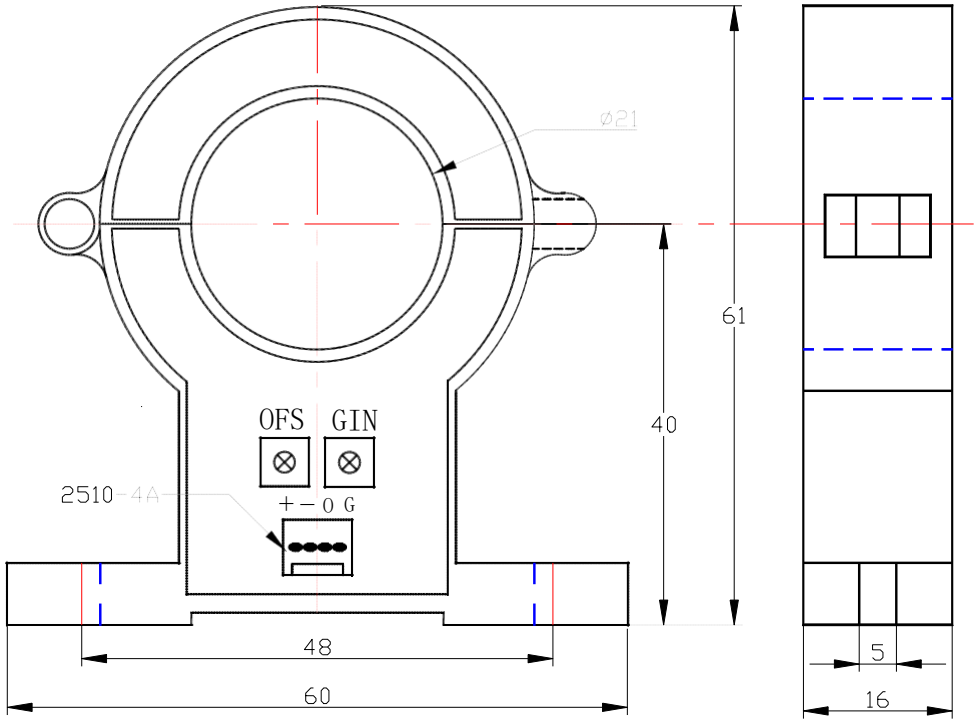
Electrical data (Ta=25℃±5℃)

Parameter \ Type	TKC30EKAD	TKC50EKAD	TKC100EKAD	TKC200EKAD	TKC400EKAD	TKC500EKAD	Unit
Rated current (Ipn AC)	30	50	100	200	400	500	A
Measuring range (Ip AC)	60	100	200	400	800	1000	A
Rated output (DC)	@Ip=±Ipn A			5±1%			V
Supply voltage				±15 ±5%			V
Power Consumption				+35,-20			mA
Offset voltage	@Ip=0			±30			mV
Offset drift				≤±1			mV/℃
output drift				≤±1			mV/℃
Linearity	@Ip=0-Ipn			≤1			%FS
Response time				≤200			mS
Band-width	@-3dB			40～10000			Hz
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)



Pins	Connected
+	+15V
−	-15V
O	OUT
G	GND

Remarks :

1. All dimensions are in mm.
2. General tolerance ±1mm.

Directions for use

1. When the current will be measured goes through a transmitter, the voltage will be measured at the output end. (Note: The false wiring may result in the damage of the transmitter)
2. Customs can adjust output amplitude of the transmitter 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

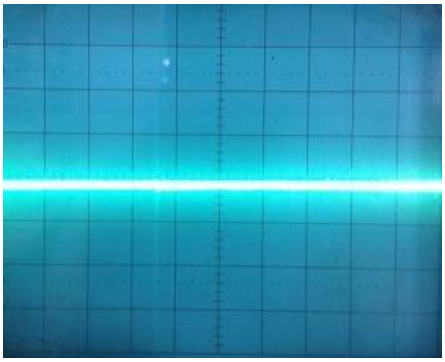
SJ 20790-2000

General data

	Value	Unit	Symbol
工作温 Operating temperature	-40 to +105	ºC	TA
Storage temperature	-40 to +125	ºC	TS
Mass(approx)	72	g	M

Characteristics chart

Effects of impulse noise



⇦ (Output voltage)