



TKC-BAR series open loop mode 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.

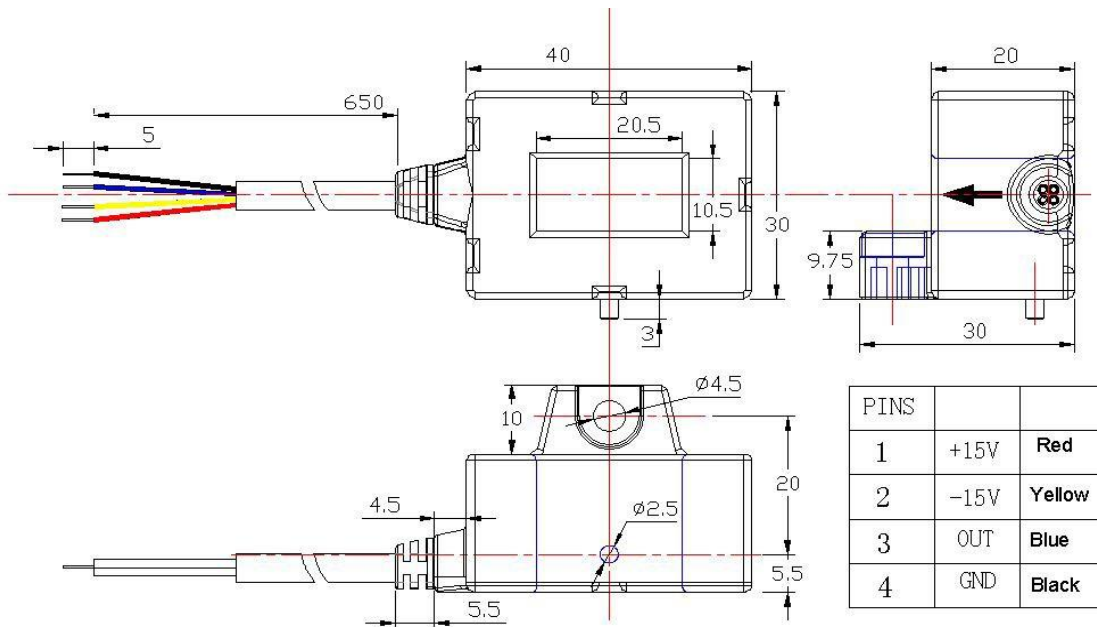
Electrical data (Ta=25°C±5°C, RL=2KΩ, CL=10000PF)

<div>Type</div> <div>Parameter</div>	TKC-50 BAR	TKC-75 BAR	TKC-100 BAR	TKC-200 BAR	TKC-300 BAR	TKC-400 BAR	TKC-500 BAR	TKC-600 BAR	Unit
Rated input (Ipn)	±50	±75	±100	±200	±300	±400	±500	±600	A
Measure range (Ip)	±150	±225	±300	±600	±900	±900	±900	±900	A
Rated output	@Ip=±Ipn ±4±1%								V
Supply voltage	±15 ±5%								V
Power consumption	≤±15								mA
Offset voltage	±25								mV
Magnetic offset	±30	±25 @Ip=±Ipn-0							mV
Offset drift	≤±1.0	≤±0.75							mV/°C
Output drift	≤±1.0	≤±0.75							mV/°C
Linearity	@Ip=0-±Ipn ≤1								%FS
Response time	@50A/μS, 10%-90% ≤3								μS
Band-width	@-3dB DC-25								KHz
Galvanic isolation	@ 50HZ , AC , 1min 2.5								KV

Applications

- AC variable speed drives
- Static converters for DC motor drives
- Variable speed drives
- Power supplies for welding applications
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Switched Mode Power Supplies (SMPS)

Mechanical dimension (for reference only)



The wiring harness model, length, and connector model can all be customized according to customer needs

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

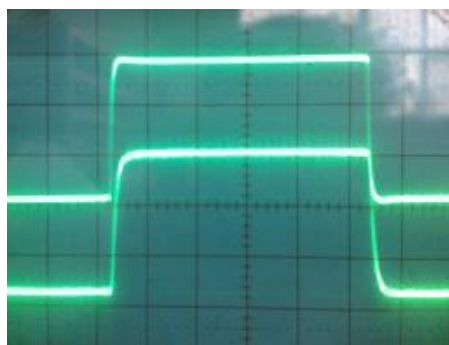
- UL94-V0
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40to +125	°C	TS
Mass(approx)	75	g	M

Characteristics chart

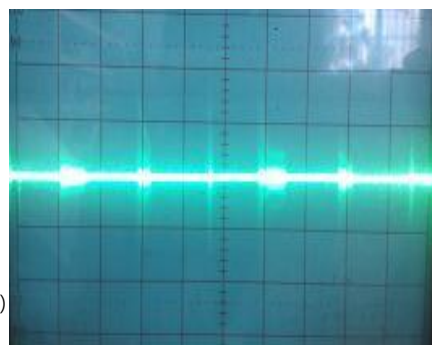
Pulse current signal response



(Input signal)

(Output signal)

Effects of impulse noise



(Output voltage)

Input current-Output Voltage

