



TKC-HB series 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.

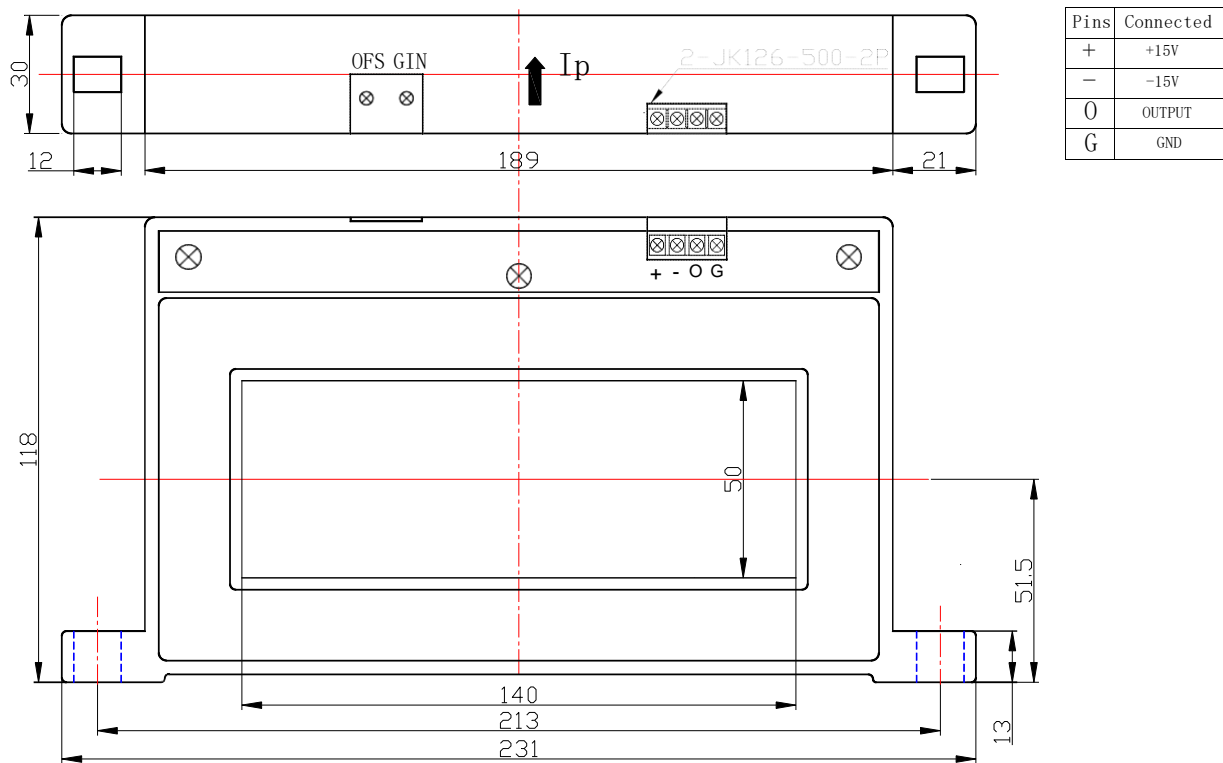
Electrical data (Ta=25°C±5°C, RL=2KΩ, CL=10000PF)

Type Parameter	TKC- 1000HB	TKC- 2000HB	TKC- 3000HB	TKC- 5000HB	TKC- 8000HB	TKC- 15000HB	TKC- 20000HB	Unit
Rated current (Ipn)	±1000	±2000	±3000	±5000	±8000	±10000	±20000	A
Measuring range (Ip)	±3000	±6000	±9000	±10000	±16000	±20000	±30000	A
Rated output	@Ip=±Ipn ±4±1%							V
Supply voltage	±15 ±5%							V
Power Consumption	+45,-15							mA
Offset voltage	@Ip=0 ±20							mV
Magnetic offset	@Ip=±Ipn-0 ±30							mV
Offset drift	≤±0.5							mV/°C
output drift	≤±0.5							mV/°C
Linearity	@Ip=0-±Ipn ≤1							%FS
Response time	@50A/μS, 10%-90% ≤10							μS
Band-width	@-3dB DC-25							KHz
Galvanic isolation	@ 50HZ,AC,1min 6							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 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

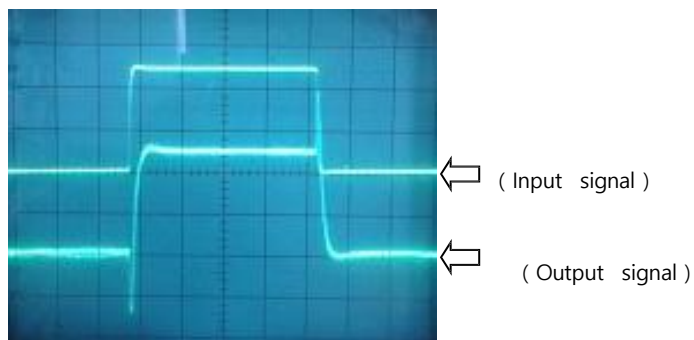
SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	1.25	Kg	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise

