



TKC-DHC Series current sensor is a open loop device based on the measuring principle of the hall effect, with a galvanic isolation between primary and secondary circuit, It is used for precision measurement of DC, AC and pulse current.

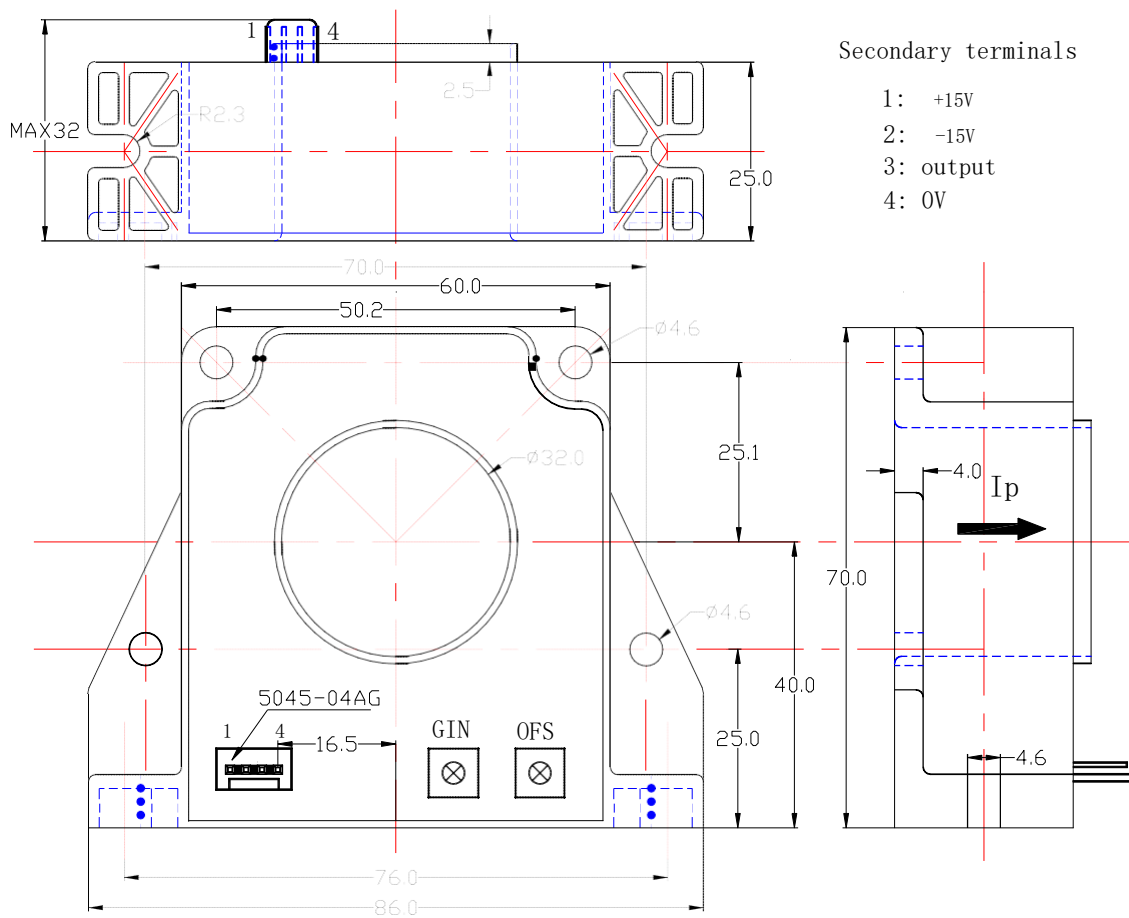
Electrical data (RL=2.0KΩ, CL=1000PF,25°C)

Parameter \ Type	TKC-100DHC	TKC-200DHC	TKC-300DHC	TKC-400DHC	TKC-500DHC	TKC-600DHC	TKC-1000DHC	Unit
Rated input (Ipn)	±100	±200	±300	±400	±500	±600	±1000	A
Measure range (Ip)	±300	±600	±900	±1200	±1500	±1500	±1500	A
Rated output	@Ip=±Ipn ±4.0±0.5%							V
Supply voltage	±15±5%							V
Consumption current	±25							mA
Offset voltage	@Ip=0 ≤±20							mV
Magnetic offset	@Ip=±Ipn-0 ≤±20							mV
Offset drift	≤±1.0							mV/°C
output drift	≤±1.0							mV/°C
Linearity	@Ip=0-±Ipn ≤0.5							%FS
Response time	@100A/μS,10%-90% ≤3							uS
Band-width	@-3dB DC-25							KHz
Galvanic isolation	@ 50HZ, AC,1min 4							KV

Applications

- Variable speed drives
- Welding machine
- Battery supplied applications
- Uninterruptible Power Supplies (UPS)
- Electrochemical

Mechanical dimension (for reference only)



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 available.

Standards

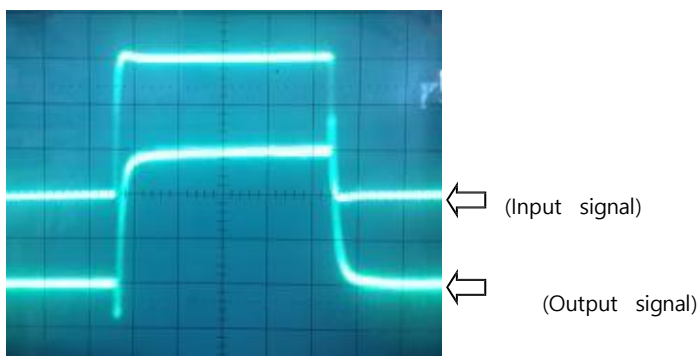
UL94-V0
 EN60947-1:2004
 IEC60950-1:2001
 EN50178:1998
 SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	210	g	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise

