



TKC-BSW1 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 provides accurate electronic measurement of DC, AC or pulsed currents.

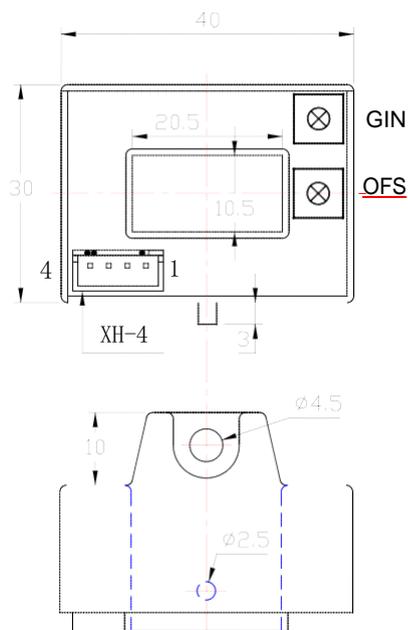
Electrical data (Ta=25°C±5°C,RL=10KΩ,CL=10000PF)

Type Parameter	TKC-50 BSW1	TKC-75 BSW1	TKC-100 BSW1	TKC-200 BSW1	TKC-300 BSW1	TKC-400 BSW1	TKC-500 BSW1	TKC-600 BSW1	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	+18,-10								mA	
Offset voltage	±25								mV	
Magnetic offset	±30	±25								mV
Offset drift	≤± 1.5	≤±1.0								mV/°C
output drift	≤± 1.5	≤±1.0								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)



PINS	
1	+15V
2	-15V
3	OUT
4	GND

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).

3. Custom design in the different rated input current and the output voltage are available.

Standards

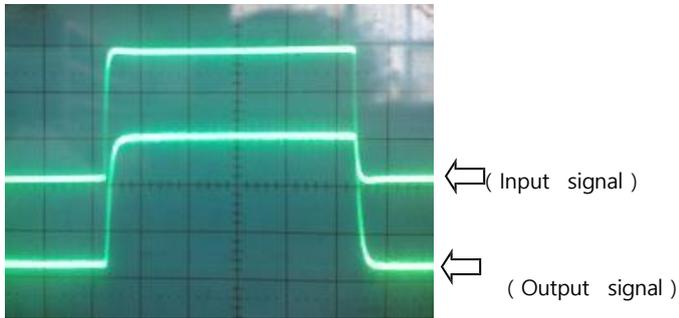
- UL94-V0.
- EN60947-1:2004
- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

General data

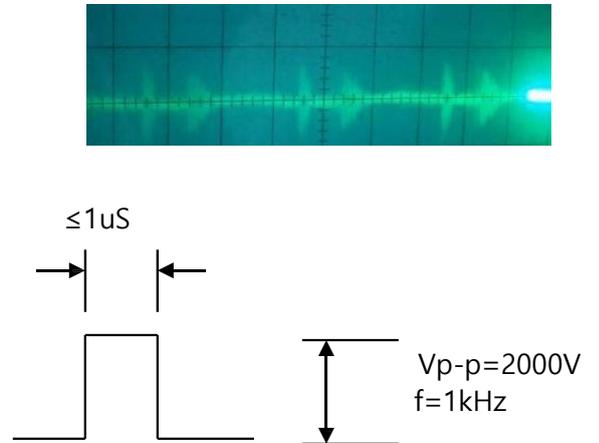
	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	65	g	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise



Input current-Output Voltage characteristic

