



TKCBS2A 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.

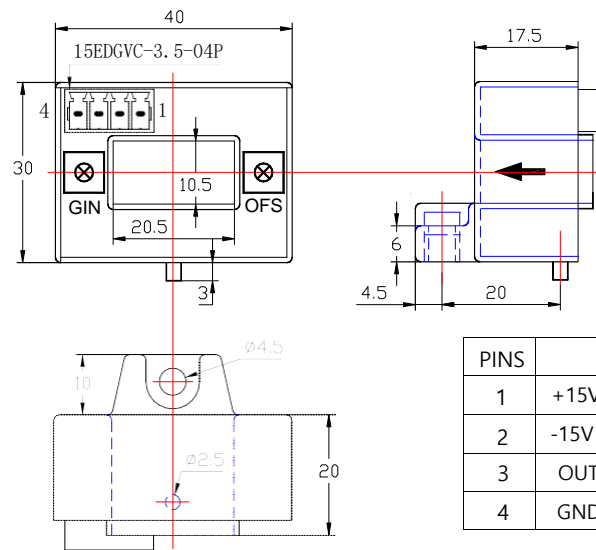
Electrical data (Ta=25°C±5°C,RL=2KΩ,CL=10000PF)

<div>Type</div> <div>Parameter</div>	TKC-50BS2A	TKC-75BS2A	TKC-100BS2A	TKC-150BS2A	TKC-200BS2A	TKC-300BS2A	TKC-400BS2A	TKC-600BS2A	Unit
Rated input current	±50	±75	±100	±150	±200	±300	±400	±600	A
Measure current range	±100	150	±200	±300	±400	±600	±800	±900	A
Rated output voltage	±5±1%								V
Supply voltage	±15 ±5%								V
Offset voltage	±25								mV
Consumption Current	≤25								mA
Magnetic offset voltage	±30	±25							mV
Offset voltage drift	≤±1.5	≤±1.0							mV/°C
output drift	≤±1.8	≤±1.2							mV/°C
Linearity	≤1								%FS
Response time	≤3								μS
Bandwidth	@-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)



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

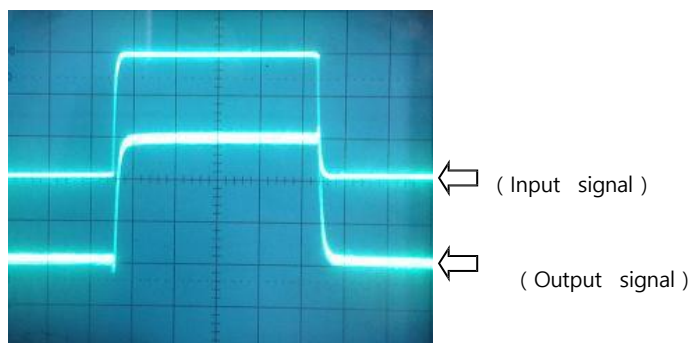
UL94-V0
EN60947-1:2004
IEC60950-1:2001
EN50178:1998
SJ 20790-2000

General data

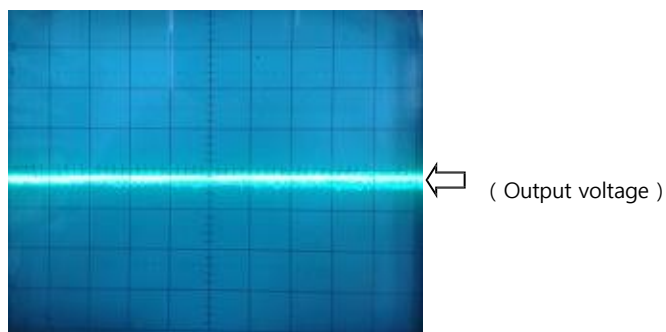
	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	65	g	M

Characteristics chart

Pulse current signal response characteristic



Effects of impulse noise



Input current-Output Voltage characteristic

