KEN R

CE RoHS

TKCBS2 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℃±5℃,RL=10KΩ,CL=10000PF)

Parameter \ Type	TKC-50BS2	TKC-75BS2	TKC-100BS2	TKC-150BS2	TKC-200BS2	TKC-300BS2	TKC-400BS2	TKC-600BS2	Unit
Rated input current	±50	±75	±100	±150	±200	±300	±400	±600	A
Measure current range	±150	±225	±300	±450	±600	±900	±900	±900	A
Rated output voltage	±4±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/℃
Output drift	≤±1.5	≤±1.0							mV/℃
Linearity	≤1								%FS
Response time	≤3								μS
Band-width	@-3dB	DC-25							KHz
Galvanic isolation	@ 50HZ , AC , 1min	2.5							KV

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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
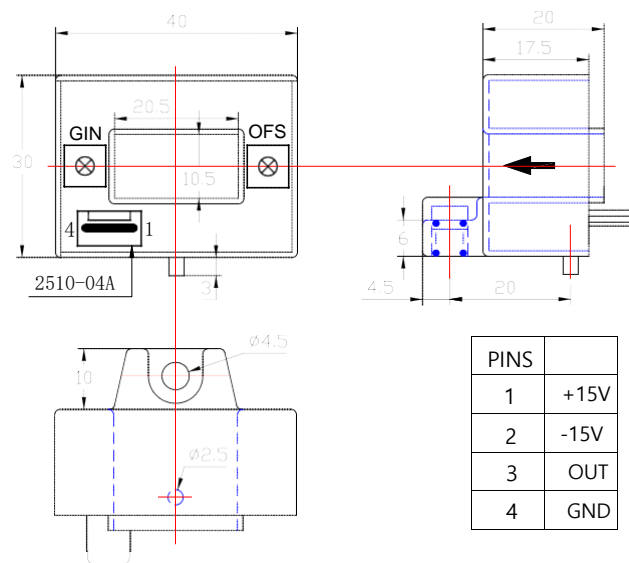
Remarks :

1. All dimensions are in mm.
2. General tolerance ±1mm.

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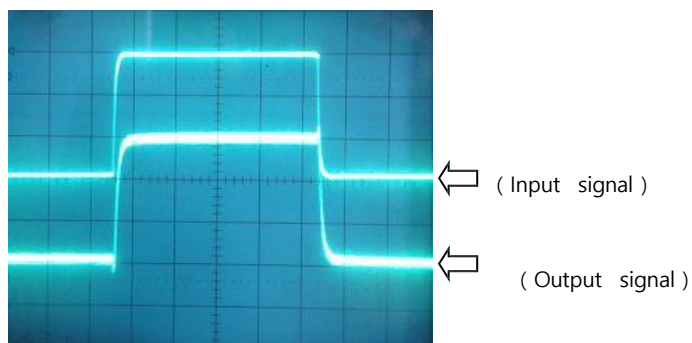3. Custom design in the different rated input current and the output voltage are available.

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Standards

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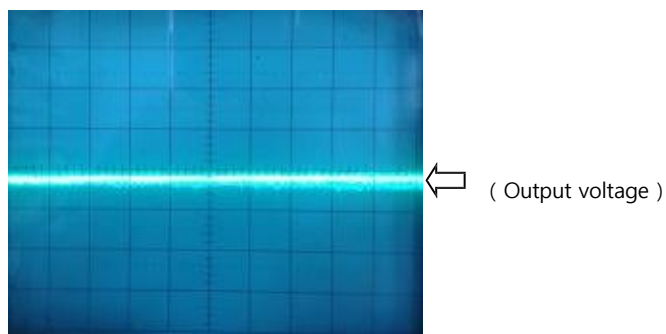- IEC60950-1:2001
- EN50178:1998
- SJ 20790-2000

General date

	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 signal）

（Output signal）

（Output voltage）

Input current-Output Voltage characteristic