TKC-BSD Series Open Loop Mode Hall Effect Current Transmitter

TKC-BS series current transmitter 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 AC or pulsed currents.

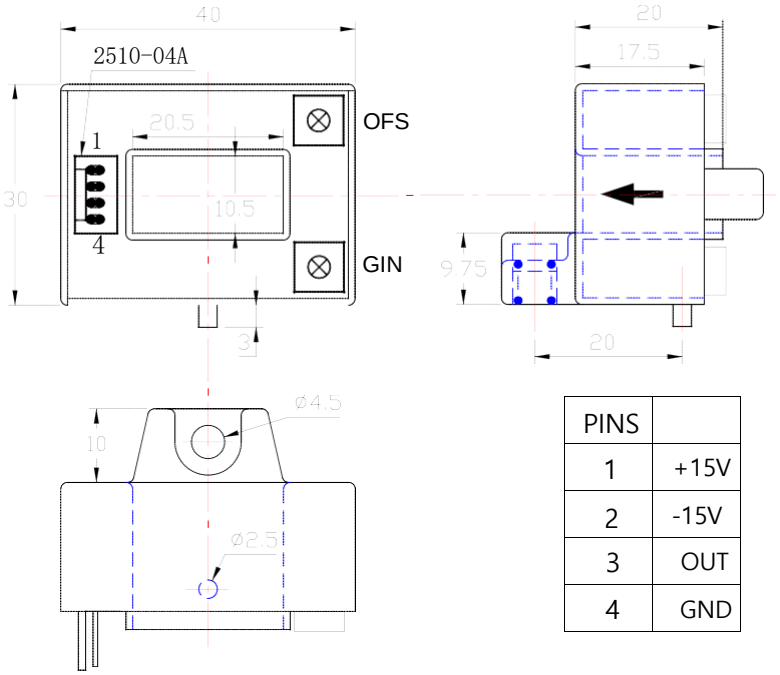
Electrical data (Ta=25℃±5℃)

Parameter \ Type	TKC50 BSD	TKC75 BSD	TKC100 BSD	TKC200 BSD	TKC300 BSD	TKC400 BSD	TKC500 BSD	TKC600 BSD	Unit
Rated input (Ipn AC)	50	75	100	200	300	400	500	600	A
Measure range (Ip AC)	100	150	200	400	600	650	650	650	A
Rated output (DC)	@Ip=Ipn AC	5±1%							V
Supply voltage	±15 ±5%								V
Power Consumption	+25,-15								mA
Offset voltage	±25								mV
Offset drift	≤±0.75	≤±0.5							mV/℃
output drift	≤±0.75	≤±0.5							mV/℃
Linearity	@Ip=0-±Ipn	≤1							%FS
Response time	≤200								mS
Band-width	@-3dB	40～10000							Hz
Galvanic isolation	@ 50HZ，AC，1min	2.5							KV
Wire length	650～750								mm

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. 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

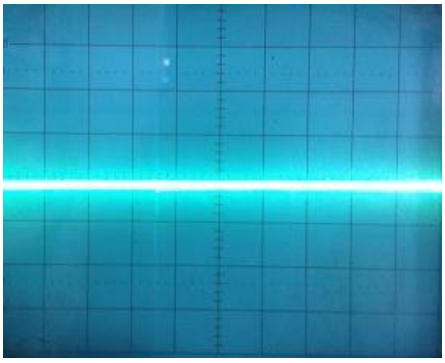
SJ 20790-2000

General data

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

Characteristics chart

Effects of impulse noise



⇦ (Output voltage)