TKC-BRD Series Open Loop Mode Hall Effect Current **Transmitter**

TKEN ᴿ

CE RoHS

TKC- BRD 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℃)

Typ Parameter	TKC50 BRD	TKC75 BRD	TKC100 BRD	TKC200 BRD	TKC300 BRD	TKC400 BRD	TKC500 BRD	TKC600 BRD	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	
+15V	RED
-15V	YELLOW
OUT	BLUE
GND	BLACK
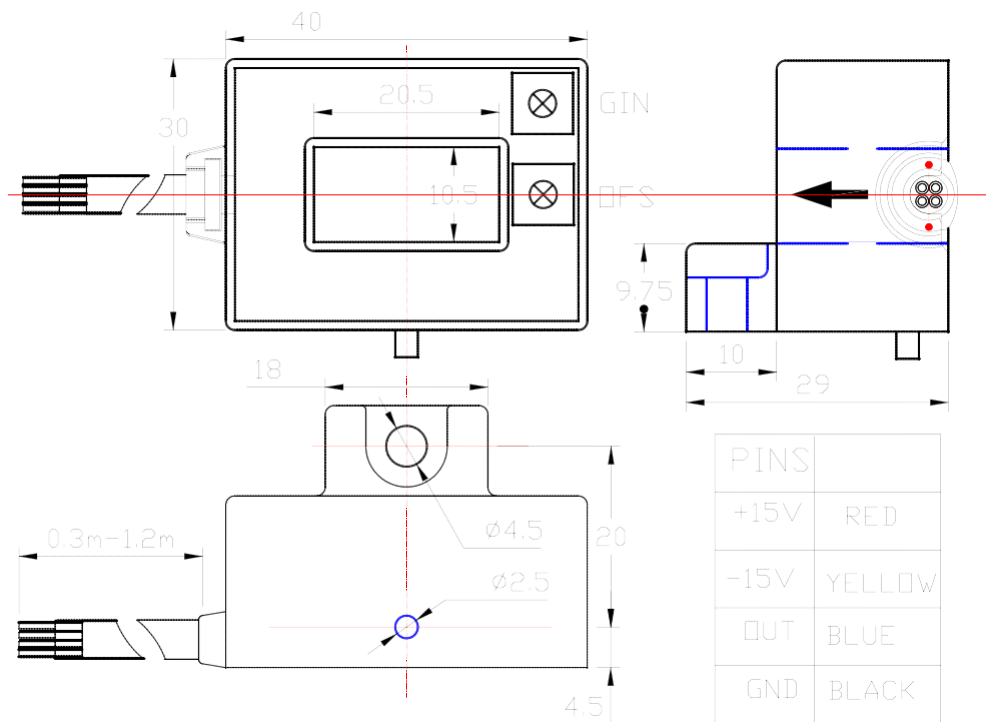
Remarks:

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
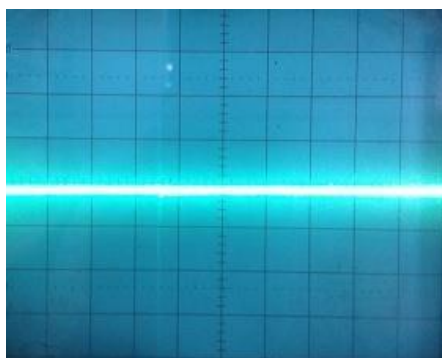
UL94-V0

EN60947-1:2004

IEC60950-1:2001

EN50178:1998

SJ 20790-2000

General data

	Value	Unit	Symbol
Operating temperature	-40 to +105	°C	TA
Storage temperature	-40 to +125	°C	TS
Mass(approx)	80	g	M

Characteristics chart

Effects of impulse noise

← (Output voltage)