

# TKC-BSD/BRD 系列开环型霍尔电流变送器

## TKC-BSD/BRD Series Open Loop Mode Hall Effect Current Transmitter



TKC-BSD/BRD 系列开环型霍尔电流变送器的初、次级之间是绝缘的，用于控制、测量交流和脉冲电流。

TKC-BS/BR 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.

**电参数 Electrical data (Ta=25°C±5°C)**

型号 Type 参数 Parameter	TKC50 BSD/BRD	TKC75 BSD/BRD	TKC100 BSD/BRD	TKC200 BSD/BRD	TKC300 BSD/BRD	TKC400 BSD/BRD	TKC500 BSD/BRD	TKC600 BSD/BRD	单位 Unit	
额定输入电流 (I <sub>p</sub> AC) Rated input (I <sub>p</sub> AC)	50	75	100	200	300	400	500	600	A	
测量电流范围 (I <sub>p</sub> AC) Measure range (I <sub>p</sub> AC)	100	150	200	400	600	650	650	650	A	
额定输出电压 (DC) Rated output (DC)	@I <sub>p</sub> =I <sub>p</sub> AC 5±1%								V	
电源电压 Supply voltage	±15 ±5%								V	
功耗电流 Power Consumption	+25, -15								mA	
失调电压 Offset voltage	±25								mV	
失调电压温漂 Offset drift	≤±0.5								≤±0.2	mV/°C
输出电压温漂 Output drift	≤±0.5								≤±0.2	mV/°C
线性度 Linearity	@I <sub>p</sub> =0-±I <sub>p</sub> ≤1								%FS	
响应时间 Response time	≤200								mS	
带宽 Bandwidth	40~20000								Hz	
绝缘电压 Galvanic isolation	@ 50HZ, AC, 1min 2.5								KV	
引线长度 Wire length	650~750								mm	

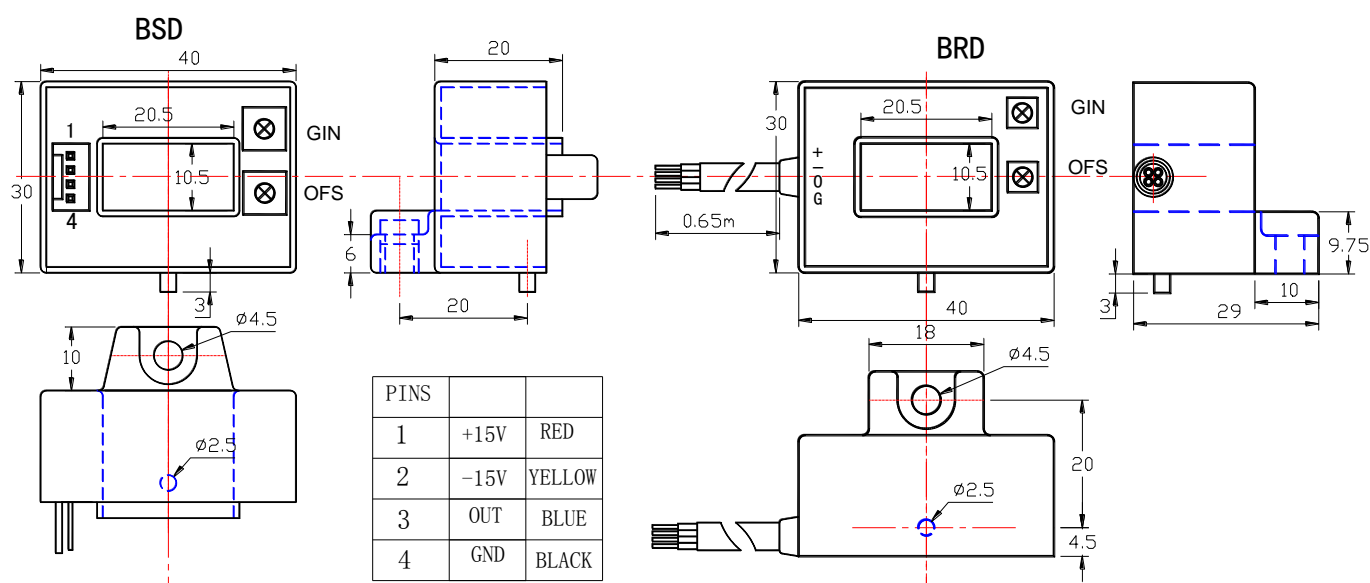
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### 应用 Applications

- 交流变速驱动器  
AC variable speed drives
- 直流电机驱动静态转换器  
Static converters for DC motor drives
- 变频调速系统  
Variable speed drives
- 电焊机  
Power supplies for welding applications
- 通讯电源  
Battery supplied applications
- 不间断电源 UPS  
Uninterruptible Power Supplies (UPS)
- 开关电源  
Switched Mode Power Supplies (SMPS)

### 结构参数 Mechanical dimension(for reference only)



Remarks:

1. All dimensions are in mm.
2. General tolerance  $\pm 1\text{mm}$ .

### 使用说明 Directions for use

1. 当待测电流从变送器穿过，即可在输出端测得电压大小。(注意：错误的接线可能导致变送器损坏)  
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. 可按用户需求定制不同额定输入电流和输出电压的变送器。  
Custom design in the different rated input current and the output voltage are available.

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### 执行标准 Standards

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

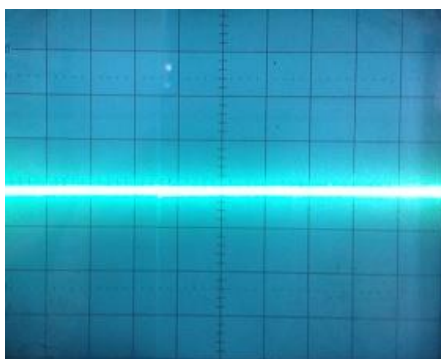
### 总体参数 General data

	数值 Value	单位 Unit	符号 Symbol
工作温度 Operating temperature	-40 to +85	°C	TA
储存温度 Storage temperature	-40 to +125	°C	TS
毛重(约) Mass (approx)	BS:65/BR:80	g	M

### 特性图 Characteristics chart

抗脉冲电压干扰特性

Effects of impulse noise



输出电压  
( Output voltage )