

KHG-HSD霍尔电流传感器 KHG-HSD Hall Current Sensor

产品型号描述 Model Description

KHG-HSD- 外形代号 (Externality Code) - 额定电流 (Rated Current)

HSD	霍尔效应直检式传感器 Hall Effect Current Sensor & Transducer	
外形代号 Externality Code	1~7 (见外形图 To see the externality)	
	安培 (A)	输入/输出 Input / Output
额定电流 Rated current	30	0 ~ 30A/0 ~ 4V
	50	0 ~ 50A/0 ~ 4V
	100	0 ~ 100A/0 ~ 4V
	150	0 ~ 150A/0 ~ 4V
	200	0 ~ 200A/0 ~ 4V
	250	0 ~ 250A/0 ~ 4V
	300	0 ~ 300A/0 ~ 4V
	400	0 ~ 400A/0 ~ 4V
	500	0 ~ 500A/0 ~ 4V
	600	0 ~ 600A/0 ~ 4V
	800	0 ~ 800A/0 ~ 4V
	1000	0 ~ 1000A/0 ~ 4V
1500	0 ~ 1500A/0 ~ 4V	
2000	0 ~ 2000A/0 ~ 4V	
范例 Example: KHG-HSD-4-300A		
说明 (Details): 霍尔电流传感器 Hall Current Transducer	输入 Input: AC/DC 0 ~ 300A	输出 Output: AC/DC 0 ~ 4V

常规说明 Specification

- 结构: 引脚接线 Structure: Lead wiring
- 外壳材料: 阻燃塑料(蓝色) Case material: Non-flammable Plastic(Blue)
- 隔离: 输入~输出隔离 Isolation: Input/output isolation

引脚接线 Pinwiring

- 1: 正工作电源端 (Power-in terminal)
- 2: 负工作电源端 (Power-out terminal)
- 3: 测量输出端 (Measuring terminal)
- 4: 公共接地端 (Common grounding wiring terminal)

典型应用 Application

广泛应用于变频调速装置、逆变装置、UPS电源、通信电源、电焊机、电力机车、变电站、数控机床、电解电镀、微机监测、电网监控等需要隔离检测电流、电压的装置或设施中。

This Series Hall-effect Transducer is widely applied in establishments where isolated current / voltage need to be examined, such as frequency conversion setting, inversion equipment, UPS power supplier, communication power supplier, electric welding machines, electric motor-vehicle, transformer substation, digital-controlled lathe, plating, micro-machine monitoring, electric-network monitoring, etc.

功能与特性 Function & Feature

- 可以测量任意波形的电流, 输出端能真实地反映输入端电流或电压的波形参数
- 采用温度补偿电路进行控制, 有效减小温漂对测量精度的影响, 确保测量准确
- 精度高、安装方便、售价低
- Measuring current in any wave; reflecting the parameters corresponding to the waves of input current / voltage at the output terminal;
- Controlled by the temperature compensation circuit to reduce affection to accuracy caused by temperature drift
- High accuracy, easy installation and low cost

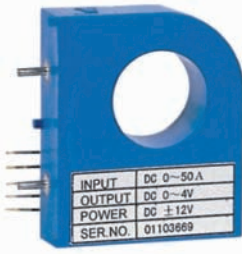
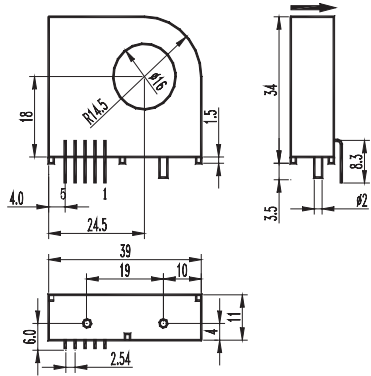

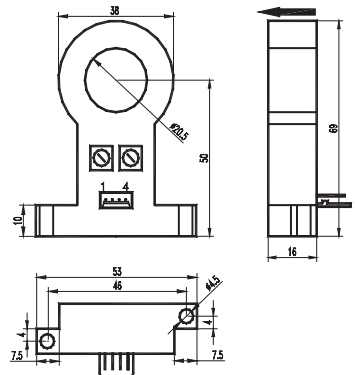

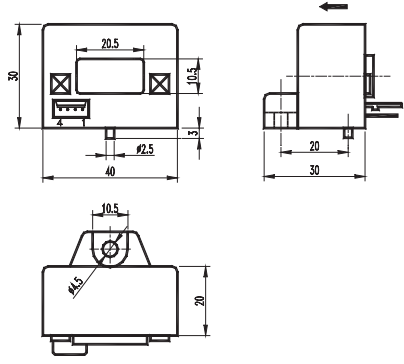

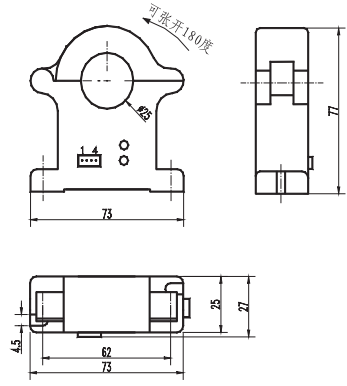
技术参数 Technical Index


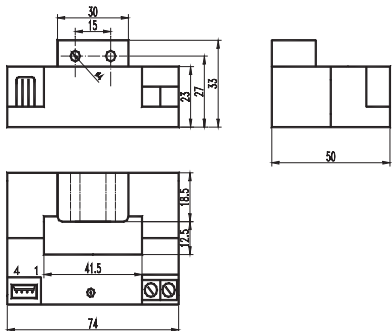

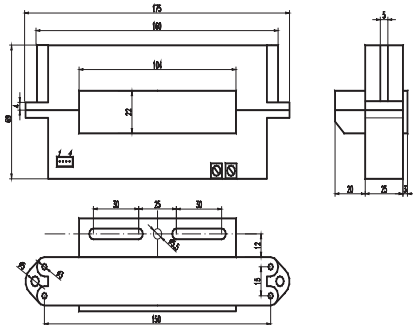

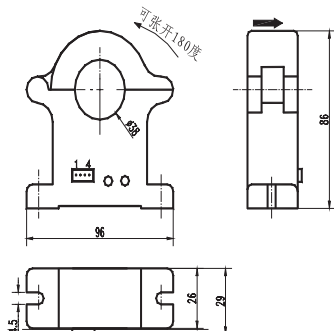
执行标准 Standard	IEC688:1992,QB/44160017113-2002
过载能力 Overload	2倍连续、20倍1秒 2 Times continuous, Current: 2 times continuous, 20 times /1s
精度 Accuracy	1.0%
线性度 Linearity	优于0.2%
失调电压 Voltage maladjustment	≤ ±20mv
温度漂移 Temperature drift	优于±100ppm/°C
反应时间 Response Time	≤ 10μs
频率特性 Frequency	0 ~ 10KHz
工频耐压 Insulation Voltage	AC2.0KV/min • 1mA
工作环境 Working environment	温度 (T): 0~45°C
工作电源 Power Supply	±12 ~ ±15V
电源功耗 Power consumption	≤ 30mA
阻燃特性 Flame rated	UL94-V0
保护 Protection	内置电源浪涌、极性反接保护

注意事项 Notice

- ◆ 工作电源、输出端必须正确连接, 不能错接
- ◆ 对于两个电位器, 请不要随意调整, 若需调校, 用小螺丝刀慢慢旋转至所需精度即可
- ◆ 原边母线的温度不应超过60°C
- ◆ 当电流母线填满原边穿孔时, 获得最佳的测量精度
- ◆ 使用环境应无导电尘埃和无腐蚀金属和破坏绝缘的气体在, 海拔高度小于2500米
- ◆ 测直流电流时, 电流方向与产品外壳上所标的箭头同向时, 才能得B到正向输出
- ◆ 选型时, 请特别注意输入线的线径及外形尺寸, 以选择能满足要求的产品
- ◆ Be sure that the wiring of power supply is correct.
- ◆ Don't adjust the potentiometers without instructions. Use small screwdriver to turn it to the accuracy required if necessary.
- ◆ The temperature of the primary generatrix should not over60°C
- ◆ Best measuring result is obtained when the current fills with the line hole of the primary generatrix.
- ◆ The operating environment allows no inductive dust or air corrosive to metal; Altitude shall be less than 2500m;
- ◆ Measuring DC current, the positive output is obtained only when the direction of the current should be the same as the arrow marked on the case of the product.
- ◆ Please check the diameter of the line and the external dimension of the model to select the suitable product.

产品外形图 External Dimension Diagram

型号 Model	外形 Externality	结构图 Diagram
KHG-HSD-1-30A KHG-HSD-1-50A KHG-HSD-1-100A KHG-HSD-1-150A	 <p>闭环设计，线路板安装 Closed-loop-loop design, Fixation by screw</p>	
KHG-HSD-2-50A KHG-HSD-2-100A KHG-HSD-2-150A KHG-HSD-2-200A KHG-HSD-2-300A	 <p>闭环设计，螺钉安装 Closed-loop-loop design, Fixation by screw</p>	
KHG-HSD-3-100A KHG-HSD-3-200A KHG-HSD-3-300A KHG-HSD-3-400A KHG-HSD-3-500A	 <p>闭环设计，螺钉安装 Closed-loop design, Fixation by screw</p>	
KHG-HSD-4-100A KHG-HSD-4-150A KHG-HSD-4-200A KHG-HSD-4-250A KHG-HSD-4-300A	 <p>开环设计 导轨螺钉安装 Open-loop design, Fixation by screw</p>	

型号 Model	外形 Externality	结构图 Diagram
<p>KHG-HSD-5-200A KHG-HSD-5-300A KHG-HSD-5-400A KHG-HSD-5-500A KHG-HSD-5-600A</p>	 <p>开环设计，螺钉安装 Open-loop design, Fixation by screw</p>	
<p>KHG-HSD-6-500A KHG-HSD-6-800A KHG-HSD-6-1000A KHG-HSD-6-1500A KHG-HSD-6-2000A</p>	 <p>开环设计，螺钉安装 Open-loop design, Fixation by screw</p>	
<p>KHG-HSD-7-300A KHG-HSD-7-400A KHG-HSD-7-500A KHG-HSD-7-600A KHG-HSD-7-800A</p>	 <p>开环设计，螺钉安装 Open-loop design, Fixation by screw</p>	



KHG-HTD 霍尔电流变送器 KHG-HTD Hall Current Transducer

产品型号描述 Model Description			
KHG-HTD- 外形代号 (Externality Code) - 额定电流 (Rated Current)			
HTD	霍尔效应直检式变送器 Hall Effect Current Sensor & Transducer		
外形代号 Externality Code	4~7 (见外形图 To see the externality)		
额定电流 Rated Current	安培 (A)	输入/输出 Input / Output	适用外形 Applicated To Externality
	100	AC、DC0~100A	4
	150	AC、DC0~150A	4
	200	AC、DC0~200A	4、5
	250	AC、DC0~250A	4
	300	AC、DC0~300A	4、5、7
	400	AC、DC0~400A	5、7
	500	AC、DC0~500A	5、6、7
	600	AC、DC0~600A	5、7
	800	AC、DC0~800A	6、7
	1000	AC、DC0~1000A	6
输出方式 Output Type	I	电流输出 Current Output: DC 0~20mA, 4~20mA	
	V	电压输出 Voltage Output: DC 0~5V, 1~5V	
范例 Example: KHG-HTD-6-1000A-V			
说明 (Details): 霍尔电流变送器 Hall Current Transducer		输入 Input: AC 0 ~ 1000A 外形结构 Externality: 6 输出 Output: DC 0 ~ 5V or 1 ~ 5V	

常规说明 Specification	
■ 结构: 引脚接线	Structure: Lead wiring
■ 外壳材料: 阻燃塑料 (蓝色)	Case material: Non-flammable Plastic (Blue)
■ 隔离: 输入~输出隔离	Isolation: Input/output isolation

引脚接线 Pinwiring
1: 正工作电源端 (Power-in terminal)
2: 负工作电源端 (Power-out terminal)
3: 测量输出端 (Measuring terminal)
4: 公共接地端 (Common grounding wiring terminal)


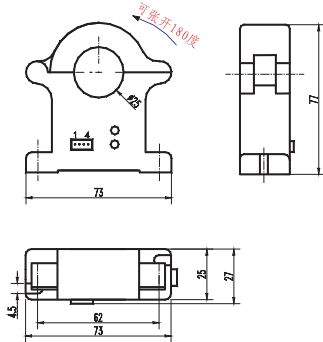

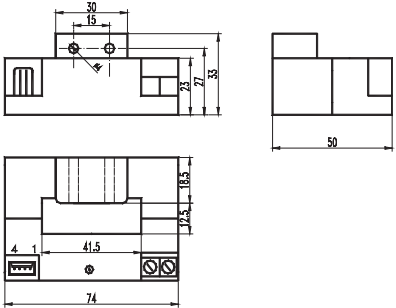

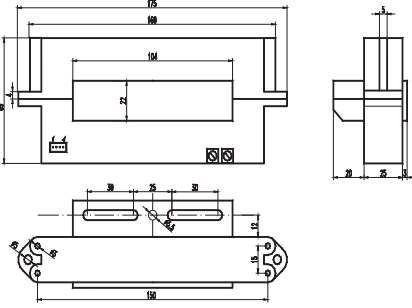
典型应用 Application
<p>广泛应用于变频调速装置、逆变装置、UPS电源、通信电源、电焊机、电力机车、变电站、数控机床、电解电镀、微机监测、电网监控等需要隔离检测电流、电压的装置或设施中。</p> <p>This Series Hall-effect Transducer is widely applied in establishments where isolated current / voltage need to be examined, such as frequency conversion setting, inversion equipment, UPS power supplier, communication power supplier, electric welding machines, electric motor-vehicle, transformer substation, digital-controlled lathe, plating, micro-machine monitoring, electric-network monitoring, etc.</p>

功能与特性 Function & Feature
<ul style="list-style-type: none"> ■ 可以测量任意波形的电流, 按用户要求提供标准变送器输出参数 (如:DC 0~5V, 1~5V、0~20mA、4~20mA等) ■ 采用温度补偿电路进行控制, 有效减小温漂对测量精度的影响, 确保测量准确 ■ 精度高、安装方便、经济实用 ■ Measuring current in any wave, Analog output optional: DC 0~5V, 1~5V, 0~20mA, 4~20mA. ■ Controlled by the temperature compensation circuit to reduce affection to accuracy caused by temperature drift ■ High accuracy, easy installation and low cost

技术参数 Technical Index	
执行标准 Standard	IEC688:1992,QB/44160017113-2002
过载能力 Overload	2倍连续、20倍1秒 2 Times continuous, Current: 2 times continuous, 20 times /1s
精度 Accuracy	1.0%
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失调电压 Voltage maladjustment	≤ ±20mv
温度漂移 Temperature drift	优于±100ppm/°C
反应时间 Response Time	≤10μs
频率特性 Frequency	0 ~ 10KHz
工频耐压 Insulation Voltage	AC2.0KV/min • 1mA
工作环境 Working environment	温度 (T): 0~45°C
工作电源 Power Supply	±12 ~ ±15V
电源功耗 Power consumption	≤30mA
阻燃特性 Flame rated	UL94-V0
保护 Protection	内置电源浪涌、极性反接保护

注意事项 Notice
<ul style="list-style-type: none"> ◆ 工作电源、输出端必须正确连接, 不能错接 ◆ 对于两个电位器, 请不要随意调整, 若需调校, 用小螺丝刀慢慢旋转至所需精度即可 ◆ 原边母线的温度不应超过60°C ◆ 当电流母线填满原边穿孔时, 获得最佳的测量精度 ◆ 使用环境应无导电尘埃和无腐蚀金属和破坏绝缘的气体在, 海拔高度小于2500米 ◆ 测直流电流时, 电流方向与产品外壳上所标的箭头同向时, 才能得到正向输出 ◆ 选型时, 请特别注意输入线的线径及外形尺寸, 以选择能满足要求的产品 ◆ Be sure that the wiring of power supply is correct. ◆ Don't adjust the potentiometers without instructions. Use small screwdriver to turn it to the accuracy required if necessary. ◆ The temperature of the primary generatrix should not over60°C ◆ Best measuring result is obtained when the current fills with the line hole of the primary generatrix. ◆ The operating environment allows no inductive dust or air corrosive to metal: Altitude shall be less than 2500m; ◆ Measuring DC current, the positive output is obtained only when the direction of the current should be the same as the arrow marked on the case of the product. ◆ Please check the diameter of the line and the external dimension of the model to select the suitable product.

产品外形图 External Dimension Diagram

型号 Model	外形 Externality	结构图 Diagram
<p>KHG-HTD-4-100A KHG-HTD-4-150A KHG-HTD-4-200A KHG-HTD-4-250A KHG-HTD-4-300A</p>	 <p>开环设计，导轨螺钉安装 Open-loop design, Fixation by screw</p>	
<p>KHG-HTD-5-200A KHG-HTD-5-300A KHG-HTD-5-400A KHG-HTD-5-500A KHG-HTD-5-600A</p>	 <p>开环设计，螺钉安装 Open-loop design, Fixation by screw</p>	
<p>KHG-HTD-6-500A KHG-HTD-6-800A KHG-HTD-6-1000A KHG-HTD-6-1500A KHG-HTD-6-2000A</p>	 <p>开环设计，螺钉安装 Open-loop design, Fixation by screw</p>	

产品外形图 External Dimension Diagram

型号 Model	外形 Externality	结构图 Diagram
<p>KHG-HTD-7-300A KHG-HTD-7-400A KHG-HTD-7-500A KHG-HTD-7-600A KHG-HTD-7-800A</p>	 <p>开环设计，螺钉安装 Open-loop design, Fixation by screw</p>	