

HBGQ 金属按钮系列



型号说明 Model Explanation

系列号 Series Number	安装孔尺寸 Mounting Hole Size	头部形状 Front Shape	开关组合 Contact Configuration	带灯类型 Lamp Type	操作类型 Operation Type	接线类型 Terminal Type	带灯颜色 LED Color	带灯部分电压 LED Voltage	外壳材料 Shell Material	外壳电镀颜色 Shell Plating Color
HBGQ	12: Ø12mm 16: Ø16mm 19: Ø19mm 22: Ø22mm	F: 平圆形 B: 球形 H: 高平圆形 M: 蘑菇钮 F: Flat Round B: Domed H: High Round M: Mushroom	10: 1NO 01: 1NC	D: 单点 E: 环形 DT: 电源符号 ET: 环形电源符号 D: Dot DT: Power Symbol ET: Ring Power Symbol	Z: 自锁式 无: 自复式 Z: Latching No letter Z: Momentary	J: 接线插片 L: 接线柱 J: Pin Terminal L: Screw Terminal	R: Red G: Green Y: Yellow O: Orange B: Blue W: White R/G R/B	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC110V AC/DC120V AC/DC220V 其他电压等级可定做 Other voltage can be made to order	N: 黄铜镀镍 S: 不锈钢 T: 锌铝合金 N: Nickel-plated Brass S: Stainless Steel T: Zn-Al Alloy	R: Red G: Green B: Blue Gold Black White

性能参数 Parameters

开关额定值 Switch Rating	DC:2A/36V; AC:5A/250V	表面防爆等级 Explosion proof grade	IK08-IK10(针对金属材料)
环境温度 Operating Temperature	-40°C~+80°C	防护等级 Degree of Protection	IP 65
接触电阻 Contact Resistance	≤50MΩ	操作压力 Operating Pressure	3~5N
绝缘电阻 Insulation Resistance	≥1000MΩ	操作行程 Operating Stroke	2.5mm
介电强度 Dielectric Strength	AC1780V	螺母扭矩 Screw Torque	5~14N
机械寿命 Mechanical Life	≥1000,000次	外壳 Shell material	黄铜镀镍/不锈钢 Nickel-plated Brass/Stainless Steel
电气寿命 Electrical Life	≥50,000次	材质 Material	按键 Press key material 不锈钢 Stainless steel 底座 Base material 塑料底座 Plastic base
开关结构 Contact Type	双断点慢动触点 Two terminal breakpoints slow moving contact	触点 Contact material	银合金 Silver alloy
开关组合 Contact Configuration	1NO, 1NC		

LED灯珠规格 LED Lamp Specifications

灯珠类型 Lamp Type	双向LED灯珠(交直流通用) Bi-directional LED lamp (AC DC Universal)	额定电流 Rated Current	约20mA about 20mA
额定电压 Rated Voltage	1.8V、2.8V、6V、12V、24V、36V、110V、220V	发光颜色 Color	R G O B W R/G R/B
		寿命 Life	50000小时(参考值) 50000 hours (reference value)

注: 如需单向直流LED灯珠可定做; 其他电压规格可按要求定做。
Note: Unidirectional DC LED lamp can be customized if needed; other voltage specifications could be special made

灯珠等效电路 Lamp Equivalent Circuit	单色发光 Monochrome light	双色发光 Double color light
采用交直流通用的LED灯珠, 接线端子无正负极区分; 灯珠内置保护电阻, 不需外接。 AC-DC Universal LED lamp, terminal differentiate between positive and negative; lamp beads built-in protection resistors, no external.	高亮LED发光、基本发光颜色5种:(红绿黄蓝白)基色可定制; 双色发光基本型是共负极及正负极切换。	

开关结构说明 Switch Structure Explanation

型式Type	符号Symbol	示意图Diagram	说明Explanation
X			具有两个端子的双断点慢动触点开关个别产品可定制Y型常闭开关, 详见产品说明。
Y			Switch with two terminal breakpoints slow moving contact Individual products can be customized Ytype normally closed switch, refer to product description.

引脚说明 Pin Description

HBGQ带灯系列	HBGQ自锁带灯系列	HBGQ接线柱带灯系列	HBGQ常闭系列

HBGQ Series Metal Pushbutton Switches



部分产品焊接注意事项 Welding Precautions

任何不正确的焊接操作都可能导致产品塑料变形、开关接触不良等。用户在使用引脚式按钮开关、信号灯时, 因焊接不当导致产品损坏的现象时有发生, 故敬请各位用户在接线操作时务必注意以下几点:

- 选择合适电烙铁, 加快焊接速度, 建议使用30W以下电烙铁在320°C时2秒内完成焊接。
- 助焊剂必须适量, 焊接时尽量将开关引脚朝下。
- 尽量采用插线端子连接, 避免焊接连接。

Any improper welding operation may lead to product plastic deformation, poor switch contact. Users using pin-type button switches, lights, due to improper welding damage to the product. Phenomenon occurs from time to time, so please be sure to pay attention to the following points in the wiring operation:

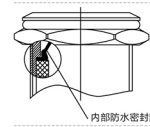
- Choose the right electric iron, speed up the welding speed, it is recommended to use the following 30W electric iron at 320 ° C When 2 seconds to finish welding.
- Flux must be moderate, try to switch the pin down when welding.
- Try to use plug-in terminals to avoid welding connections.

防护与安装说明 Protection and installation instructions

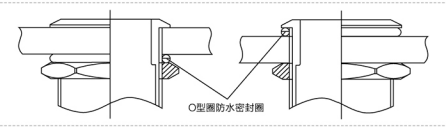
金属按钮开关外壳采用金属材料, 与塑料开关相比, 不紧增强了其美观性, 外观颜色可多样化, 并且大幅度提升了头部安装面板以上其防尘防水性能、防爆性能及防腐性等。防水等级IP65, 防爆能力IK08-IK10。

Pushbutton use metal housing, not only the appearance would be more beautiful and multi-colorful compared with plastic indicator, but also enhance the dustproof and waterproof, explosion resistance and corrosion resistance performance of the head (above the panel mount), etc. IP65 waterproof, Explosion-proof IK08-IK10.

内部IP防尘、防水结构



外部O型密封圈安装方法



标识定做 Identification custom

金属按钮开关的按键表面可以激光刻字、图案或发光文字与图案, 可根据客户要求定制。具有新颖与美观性, 并替代指示标牌的作用。

The surface of the key metal button switch, can be laser engraving patterns or luminous words and patterns, can be customized according to customer requirements, with novel and beautiful appearance, and replace the role of signs.

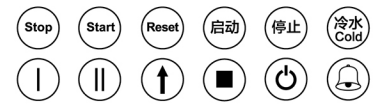
激光刻字效果图



激光刻穿发光效果图



符号定制举例



定制尾部接线方式 Terminal can be customized



安装效果预览 Installation Effect Preview

