

## HBGQD22 按钮开关系列



### 型号说明 Model Explanation

系列号 Series Number	开关组合 Contact Configuration	带灯类型 Lamp Type	操作类型 Operation Type	带灯颜色 LED Color	带灯部分电压 LED Voltage	外壳材料 Shell material
HBGQD22	20:2NO	D:单点 E:环形 ET:环形电源符号 DS:透光塑料盖 DT:定制符号 D:Dot E:Ring ET:Ring power symbol DS:Transparent plastic cover DT:Custom symbols	Z:自锁式 无自锁式 Z:Latching No letter Z: Momentary	R:Red G:Green Y:Yellow O:Orange B:Blue W:White R:G R:B R:G:B	AC/DC6V AC/DC12V AC/DC24V AC/DC36V AC/DC110V 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 N:Nickel-plated Brass S:Stainless Steel

### 性能参数 Parameters

开关额定值 Switch Rating	AC:10A/440VAC	表面防爆等级 Explosion proof grade	IK10
环境温度 Operating Temperature	-25°C~+80°C	防护等级 Degree of Protection	IP65
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	3mm
介电强度 Dielectric Strength	AC2500V	螺母扭矩 ScrewTorque	5~14N
机械寿命 Mechanical Life	≥1000,000次	按键 head	PC/不锈钢 PC/Stainless Steel
电气寿命 Electrical Life	≥50,000次	材质 Material	外壳 Press key material 不锈钢 Base material 尼龙 触点 Contact material 银合金 Silver alloy
开关结构 Contact Type	双断点快动触点 Single-break fast motion changeover contact		
开关组合 Contact Configuration	2NO		

### 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)其它可定制；双色发光基本型是共负极及正负极切换。

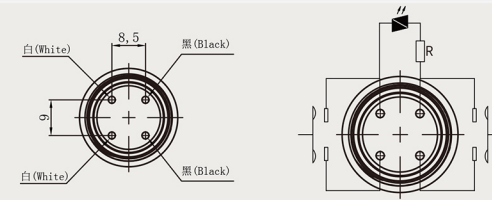
### 开关结构说明 Switch Structure Explanation

型式Type	符号 Symbol	示意图 Diagram	说明 Explanation
X			具有两个端子的双断点快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.

## HBGQD Series Metal Pushbutton Switches



### 引脚说明 Pin Description



### 产品接线注意事项 Welding Precautions

接线时应严格遵守产品所标注的最大额定电压与电流，若大于产品额定值则可能大幅度减少产品使用寿命，甚至直接导致产品损坏！

When wiring, strictly observe the maximum rated voltage and current marked on the product, if it is greater than the product's rated value it may greatly reduce the service life of the product, or even directly cause product damage!

- 1: 查看按钮最大额定值
- 2: 查看负载所需的电流电压
- 3: 按照所需功能，选择按钮的NO端进行使用

- 1: View the maximum rating of the button
- 2: View the current and voltage required by the load
- 3: According to the desired function, select the NO end of the button to use

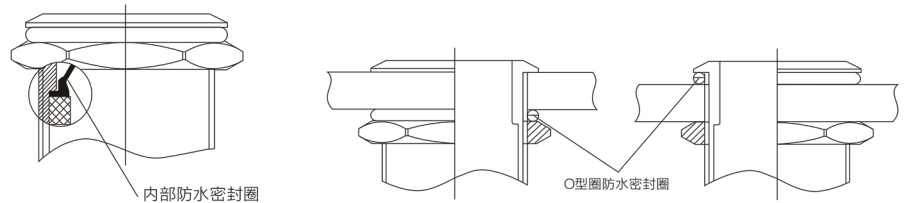
### 防护与安装说明 Protection and installation instructions

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、防爆性能及耐腐蚀性等特点。防水等级IP65，防爆能力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 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

