

HB-K 按钮开关系列



型号说明 Model Explanation



性能参数 Parameters

环境温度 Operating Temperature	-25℃~+65℃(无水冻照明开关本体周围 必须空气流通 (No freezing) Keep the air flowing around illuminated pushbutton)
环境湿度 Operating humidity	45~85%RH(无结露) Non condensing
触点材料 Contact material	银 Silver 银合金 Silver alloy 银镀金, 镀层厚 3μm Silver plated gold, Plating thickness 3μm
接触电阻 Contact Resistance	≤50mΩ
绝缘电阻 Insulation Resistance	≥100MΩ
介电强度 Dielectric Strength	2500V, AC50Hz
耐振动性 Vibration Resistance	50Hz, 振幅约1.0mm Amplitude 1.0mm
耐冲击性 Shock resistance	>10g
机械寿命 Mechanical Life	自复按钮 Momentary 100万次 1,000,000 times 钥匙按钮、选择按钮 Key switch, Selector switch 20万次 200,000 times
电气寿命 Electrical Life	5万次以上 Above 50,000 times
接线 Terminal	螺纹连接, 线直径最大: 2×1.5mm <sup>2</sup> 接线插片 6.3×0.8mm <sup>2</sup> Thread connection, diameter of welded wire: 2×1.5mm <sup>2</sup> Max. Connecting link: 6.3×0.8mm <sup>2</sup>
操作力 Operating Force	800gf~2200gf, 依开关元件数量而定 800gf~2200gf, according to the quantity of switch units
操作行程 Operating Travel	(按钮)约3mm (Button) About 3mm

开关额定值 Switch Rating

额定绝缘电压Ui Rated insulation voltage	AC660V				
发热电流Ith Conventional thermal current	10A	20A			
额定电压 Rated Voltage	24V	48V	110V	220V	380V 500V
直流 DC	10A	5A	2.2A	1.1A	
交流 AC PF=0.7		10A	6A	4A	2A

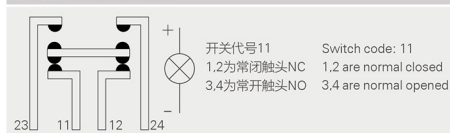
LED灯珠规格 LED Lamp Specifications

灯珠类型 Lamp Type	双向LED灯珠(交直流通用) Bi-directional LED lamp (AC/DC Universal)
额定电压 Rated Voltage	AC/DC 6V, 12V, 24V, 110V, 220V, 380V AC110V, 220V, 380V
额定电流 Rated Current	约20mA about 20mA
发光颜色 Color	R G Y O B W
寿命 Life	40000小时(参考值) 40000 hours (reference value)
灯珠等效电路 Lamp Equivalent Circuit	AC/DC: (电阻降压) AC/DC: (Resistance for Step-down) AC: (电容降压) AC: (Capacitor for Step-down) 适用频率: 50~60Hz

注: 1. 该系列均采用电源带灯形式, 已内置灯珠保护电阻, 不需外接。  
2. 以上均采用交直流通用的双向LED发光二极管, 如需直流单向可定制;  
其他电压规格可按要求定制; 红绿变色可定制。

Note: 1. The LED contains current-limiting resistor inside and doesn't need connect outside.  
2. The standard is using AC/DC LED lamp, DC LED lamp, dual-color LED lamp and other voltages can be customized.

接线图 Contacts Circuit



HB-K Series Pushbutton Switches



选择/钥匙按钮触点分合状态图 The Contact pair's Close-open State Chart of the Selector and Key Switches

2位置触头组合分合状态图  
The Contact Pairs's Close-open State Chart of 2-Position Selector and Key Switches

序号 No.	型号 Type	状态1	状态2
1	HBS0-11	⊖ ⊖	⊖ ⊖
2	HBS0-02	⊖ ⊖	⊖ ⊖
3	HBS0-20	⊖ ⊖	⊖ ⊖
4	HBS0-22	⊖ ⊖	⊖ ⊖
5	HBS0-13	⊖ ⊖	⊖ ⊖
6	HBS0-31	⊖ ⊖	⊖ ⊖
7	HBS0-04	⊖ ⊖	⊖ ⊖
8	HBS0-40	⊖ ⊖	⊖ ⊖
9	HBS0-42	⊖ ⊖	⊖ ⊖
10	HBS0-24	⊖ ⊖	⊖ ⊖
11	HBS0-06	⊖ ⊖	⊖ ⊖
12	HBS0-60	⊖ ⊖	⊖ ⊖
13	HBS0-33	⊖ ⊖	⊖ ⊖
14	HBS0-15	⊖ ⊖	⊖ ⊖
15	HBS0-51	⊖ ⊖	⊖ ⊖

3位置触头组合分合状态图  
The Contact Pairs's Close-open State Chart of 3-Position Selector and Key Switches

序号 No.	型号 Type	状态1	状态2	状态3
1	HBS0-11	⊖ ⊖	⊖ ⊖	⊖ ⊖
2	HBS0-02	⊖ ⊖	⊖ ⊖	⊖ ⊖
3	HBS0-20	⊖ ⊖	⊖ ⊖	⊖ ⊖
4	HBS0-22	⊖ ⊖	⊖ ⊖	⊖ ⊖
5	HBS0-13	⊖ ⊖	⊖ ⊖	⊖ ⊖
6	HBS0-31	⊖ ⊖	⊖ ⊖	⊖ ⊖
7	HBS0-04	⊖ ⊖	⊖ ⊖	⊖ ⊖
8	HBS0-40	⊖ ⊖	⊖ ⊖	⊖ ⊖
9	HBS0-42	⊖ ⊖	⊖ ⊖	⊖ ⊖
10	HBS0-24	⊖ ⊖	⊖ ⊖	⊖ ⊖
11	HBS0-06	⊖ ⊖	⊖ ⊖	⊖ ⊖
12	HBS0-60	⊖ ⊖	⊖ ⊖	⊖ ⊖
13	HBS0-33	⊖ ⊖	⊖ ⊖	⊖ ⊖
14	HBS0-15	⊖ ⊖	⊖ ⊖	⊖ ⊖
15	HBS0-51	⊖ ⊖	⊖ ⊖	⊖ ⊖

注: 1. ⊖ ⊖ 表示触头断开状态, ⊖ ⊖ 表示触头闭合状态;  
2. 表示并未列出所有的触头分合状态, 如所需的触头状态不在表中, 请另行告知。  
Note: 1. ⊖ ⊖ express open state, ⊖ ⊖ express close state;  
2. Not all the contact state show in the table. If you need other contact state, please tell us

安装孔尺寸 Mounting Hole Size

型号Model	A	B	C
普通按钮 Normal pushbuttons	∅22.5	≥50	≥35
选择/钥匙按钮 Selector, Key switches	∅25.5	≥50	≥35
蘑菇头按钮 Mushroom head	∅30.5	≥50	≥42
大蘑菇头按钮 Big Mushroom head		≥70	≥70

安装方法 Installation

