

HBS0 按钮开关系列



型号说明 Model Explanation

HBS0 - ☆ - □ / ◆ / ▲

系列号 Series Number	品种代号 Type	触点结构 Contact Configuration	操作类型 Operation Type	操作位置 Operation Position	带灯电压 LED Voltage	颜色 Color
HBS0	KA: Ø22塑料头部 KB: Ø22黄铜头部 KB30: Ø30黄铜头部 KA: Ø22 Plastic head KB: Ø22 brass head KB30: Ø30 brass head	11: 1NO1NC 20: 2NO 02: 2NC 22: 2NO2NC 33: 3NO3NC 44: 4NO4NC	无字母: 自复按钮 E: 金属环形带灯钮 G: 高头按钮 Z: 自锁按钮 X: 选择按钮 XB: 长柄选择按钮 Y: 钥匙按钮 M: 蘑菇头按钮 TS: 急停按钮 D: 带灯按钮 DZ: 带灯自锁按钮 S: 双头位按钮 DS: 带灯双头位按钮 NA: Momentary E: Illuminated ring type G: High head Pushbuttons Z: Latching X: Selector Switches XB: Long Handle Selector Switches Y: Key Switches M: Mushroom Head Pushbuttons TS: Emergency stop Switches D: Illuminated type DZ: Illuminated maintained type S: Double-head pushbuttons DS: Illuminated double-head pushbuttons	◇选择按钮及钥匙按钮的操作类型 2: 二位置 3: 三位置 ◆动作类型 1: 自锁式 2: 右自复式 3: 全自复式 4: 左自复式 ◇Operation Position of Selector Switches and Key Switches 2: 2 Position 3: 3 Position ◆Operation type 1: Latching 2: Right Momentary 3: Momentary 4: Left Momentary	见LED灯珠规格表 See the table of LED Rating	R Red G Green Y Yellow O Orange B Blue W White N Black

性能参数 Parameters

环境温度 Operating Temperature	-25℃~+65℃(无冰冻)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 自锁按钮、选择按钮 Latching button, Selector switch 50万次 500,000 times 钥匙按钮、急停按钮 Key switch, E-stop 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: 2×1.5mm² 接线插片 6.3×0.8mm² Thread connection, diameter of welded wire: 2×1.5mm² Max. Connecting link: 6.3×0.8mm²
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 (Buton)About 3mm

开关额定值 Switch Rating

额定绝缘电压 Rated insulation voltage	AC600V
发热电流 Conventional thermal current	10A
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

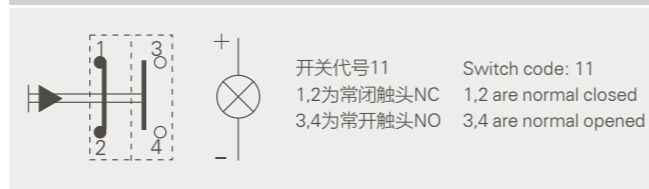
LED灯珠规格 LED Lamp Specifications

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、该系列均采用电源箱带灯形式, 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



HBS0 Series Pushbutton Switches



选择/钥匙按钮触头分合状态图 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		
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			
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, 请另行告之。
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	Ø22.5	≥50	≥35
选择/钥匙按钮 Selector, Key switches	Ø25.5	≥50	≥35
蘑菇头按钮 Mushroom head	Ø30.5	≥50	≥42
大蘑菇头按钮 Big Mushroom head		≥70	≥70

安装方法 Installation

