

HBS3/HBS2 Series Pushbutton Switches

型号说明 Model Explanation

HBS3/HBS2		★ - □ ■ / △ / ▲ / ○					
系列号 Series Number	头部形状 Front Shape	触点结构 Contact Configuration	操作类型 Operation Type	带灯部分电压 LED Voltage	颜色 Color	防护等级 Degree of Protection	
HBS3: Ø10mm HBS2: Ø12mm	Y: 圆形 F: 方形 J: 矩形 Y:Round F:Square J:Rectangle	11: 1NO 1NC 22: 2NO 2NC 无字母: 自锁按钮 D: 指示灯 Z: 自锁按钮 无字母: 自复按钮 D: Indicator Z: Latching No letter: Momentary					
				见LED灯珠规格; 24V以下内置保护电阻， 24V以上外接保护电阻。 可定制6V以上内置保护电阻。 信号灯有两级变色，可定制。 See the table of LED Rating: LED pole change color, can be customized.			
					Red Green Yellow Orange Blue White Black Transparent		IP40, IP65, IP67(IP67需 加装密封罩) IP40, IP65, IP67 (IP67 need cover)



性能参数 Parameters

环境温度 Operating Temperature	-25°C ~ +55°C
环境湿度 Operating humidity	45~85%RH
接触电阻 Contact Resistance	≤50mΩ
绝缘电阻 Insulation Resistance	≥100MΩ
介电强度 Dielectric Strength	触点与灯珠引脚之间: 1500V, AC/50Hz, 1min 同极端子之间: 1000V, AC/50Hz, 1min 不同电极端子之间: 2000V, AC/50Hz, 1min
机械寿命 Mechanical Life	20万次 200,000 times
电气寿命 Electrical Life	3万次以上 Above 30,000 times
耐焊锡热 Solder heat resistance	230°C时不超过3秒

LED灯珠规格 LED Lamp Specifications

灯珠类型 Lamp Type	双向LED灯珠 Bi-directional LED lamp
额定电压 Rated Voltage	AC/DC6V AC/DC12V AC/DC24V AC/DC110V AC/DC220V
发光颜色 Color	R G Y O B W
寿 命 Life	40000小时(参考值) 40000 hours (reference value)
注: 24V以下灯珠内置保护电阻, 不需外接; 24V以上灯珠需外置保护电阻(如示意图)。如需直流向LED灯珠可定制; 其他电压规格可按要求定制; 红绿变色可定做。	External protection resistor connection diagram

开关结构说明 Switch Structure Explanation

型式 Type	C
符号 Symbol	NO —— NC —— C
示意图 Diagram	NO —— NC —— C
说明 Explanation	具有三个端子的单断点快动转换触头开关 Single breakpoint snap-action contacts switch with three terminals.

开关额定值 Switch Rating

发热电流ith Conventional thermal current	5A	温度不超过最大额定值所允许的电流 Temperature not more than the maximum allowed continuous working current
额定电压 Rated Voltage	24V	125V(110V)
直流 DC	2A	0.2A
交流 AC	PF=1 PF=0.7	0.1A 5A 3A 2A

安装孔尺寸 Mounting Hole Size

单位: mm	HBS3			HBS2		
	A	B	C	A	B	C
圆形	10	≥12	≥12	12	≥14	≥14
方形	10	≥12	≥12	12	≥14	≥14
矩形	10	≥12	≥16	12	≥14	≥18

引脚说明 Pin Description

<ul style="list-style-type: none"> 最多可配置两组开关; C1、NO1、NC1和C2、NO2、NC2分别为一组开关; C脚为公用脚, NO脚为常开脚, NC脚为常闭脚; +、-脚为灯珠引脚, 常规灯珠配置无正负极区分; 灯珠与开关相对独立, 可通过开关或外围电路控制灯珠状态。
<ul style="list-style-type: none"> Can be configured up to two sets of switches. C1, NO1, NC1 and C2, NO2, NC2, are a set of switches respectively; Pin C is utility pin, pin NO is normally open pin, pin NC is normally close pin; +,-pins are LED lamp pins, normal lamp configuration has no difference between positive and negative ; LED and switch pin are separated, but switch and external circuit can control the LED state by connecting the LED pin.
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