
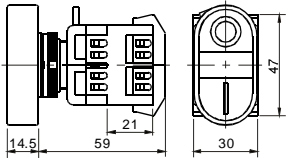


# HB22 Series Pushbutton Switches



<p>Rectangular (can be illuminated)</p> 	<p>Double Head Momentary</p>	<p>HB22-□S/▲</p>		<p><b>R G</b></p> <p>⊙ The height is not changed for the illuminated type</p>
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## HB22 Series Pushbutton Switches

### Product Overview

#### Specs

The product contains pilot lamp, pushbutton, illuminated pushbutton, selector switch key-lock switch, emergency pushbutton, double head pushbutton and so on. Its normal diameter of installation hole is  $\Phi 22\text{mm}$  and some types can be installed in  $\Phi 30\text{mm}$  hole with the  $\Phi 30\text{mm}$  diameter changing nut.

#### Performance

Switch unit is separated independently and the insulating performance is very well. The product meets standards of IEC60947-5-1, GB14048.5 etc.

#### Structure

The switch unit is slow-break and self-cleaning. It uses modular combination mode and you can combine from one to eight switch units optional, so can make the product meet the requirement of many special control circuits.

#### Protective Degree

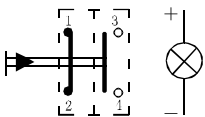
The protective degree is IP 40.

#### Lamp Ratings

Lamp Type	AC LED Lamp			Neon Lamp		
	AC/DC6V	AC/DC12V	AC/DC24V	AC/DC110V	AC/DC 220V	
Lamp Color	<b>R</b>	<b>G</b>	<b>Y</b>	<b>O</b>	<b>B</b>	<b>W</b>
Life	About 40,000 hours			About 20,000 hours		

- Note:**
1. Use LED lamp below 60V; use neon lamp above 60V.
  2. The lamp contains current-limiting resistor inside and doesn't need connect outside..
  3. The standard is using AC/DC LED lamp, DC LED lamp, dual-color LED lamp and other voltages can be customized.

#### Circuit Diagram



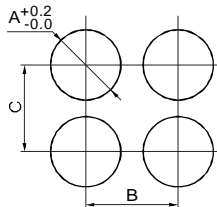
Switch Code : 11  
1,2 are normal closed;  
3,4 are normal opened;

#### Implication of Type

HB22	-	□	■	/	◇	◆	/	△	/	▲
Code of series	Contact Structure: 11 1NO1NC 22 2NO2NC 33 3NO3NC 44 4NO4NC	Operating type: BD domed pilot lamp PD round flat pilot lamp X selector type XB lever type Y key-lock type M mushroom type TS emergency type S double head type No letter means momentary.	◇ expresses selector and key-lock operating position: 2 two position 3 three position ◆ expresses operating type: 1 maintain 2 half return 3 self return	Lamp Voltage (Please check the lamp rating)	Color: R red G green Y yellow O orange B blue W white N black					

#### Installation Dimensions

⊙ Panel thickness is 0.5~5mm



### Specifications

Operating Environment	Temperature: -25~+55°C(no freezing) Humidity: 45~85%RH(no condensation)
Contact Material	- silver - silver alloy - gold-clad silver, cladding thickness is 3 μm
Contact Resistance	≤ 50mΩ
Insulation Resistance	≥ 100MΩ
Dielectric Strength	3000V, Alternating Current 50Hz
Vibration Resistance	50Hz, Amplitude 1.0mm-p
Shock Resistance	≥ 10g
Life	Mechanical Momentary type: ≥ 1,000,000 times, Selector type: ≥ 500,000 times, Key-lock type, Emergency type: ≥ 200,000 times
	Electrical ≥ 50,000 times
Terminal	Thread connection, diameter of welded wire: 2 × 0.8mm max Connecting link: 6.3 × 0.8mm

### Switch Ratings

Rated Insulation Voltage	Ui: 600V					
Thermal Current	Ith: 10A					
Rated Voltage	24V	48V	110V	220V	380V	500V
Direct Current	10A	5A	2.2A	1.1A		
Alternating Current P.F=0.7			10A	6A	4A	2A

Type	A	B	C	Remarks
Normal, Key-lock	Φ 22	≥ 40	≥ 50	1. Unit:mm 2. Can be used in 25mm installation hole with a diameter changing circle. 3. B and C are both the minimum dimensions.
Lever		≥ 40	≥ 55	
Mushroom	or	≥ 50	≥ 50	
Big Mushroom	Φ 25	≥ 70	≥ 70	