Product Overview

HBY5 series are suitable to industrial control circuit with AC 50Hz or 60HZ, rated voltage and D C operating voltage, used for the control of magnetic starter, contactor, relay and other electric circuit.

Specs The product has two types: normal type and economical type, containing pilot lamp, pushbuttons, illuminated pushbuttons, mushroom push button, emergency pushbuttons, selector switches, key-lock switches, mushroom key-lock switches, double head switchs, The installation hole is Φ 22mm It used in wide area.

Performance Using high quality inflaming retarding materials. Switch unit is separated independently, the insulating performance and antivibration is very well. The product meets standards of IEC60947-5-1, GB14048.5 etc.

Structure The switch unit is slow-breal 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. It can be connected more safely and installed firmly. Economical plastic type can be used in acid environment.

Protective Degree Protection class have IP40 and IP65



Performance Characteristics

Operating temperature	-25 ~ + 55 $^{\circ}\mathrm{C}(\mathrm{no}~\mathrm{freezing})$ keep the air flowing around illuminated push button			
Operation Humidity	45~85%RH (no condensation)			
Use altitude	Installation location should not exceed 2000m above sea level			
Contact Resistor	\leq 50m Ω			
Insulation Resistor	≥100MΩ(500VDC)			
Maximum withstand voltage	3000V, AC 50Hz, 1min			
Vibration Resistance	50Hz, Amplitude 1.0mm			
	Momentary knob \geq 1 million times			
Mechanical Life	key knob, emergency stop button \geqslant 200,000 times			
	Latching knob, selection knob \geq 500,000 times			
Electrical Life	≥ 50,000 times			
	Screw terminal, connecting ability: Min : 1×0.5mm			
Connection	Max: 2×1.5mm2 (with connecting link)			
	Max: 1×2.5mm2 (without connecting link)			
Operating force	8N(1NO1NC), 14N(2NO2NC)			
Operation Travel	Approx. 5.5 mm (button)			
Pollution Degree	3 degrees			

Lamp Ratings

LED Life	Rated Current	Voltage fluctuation	Lamp Circuit Diagram
40000 hours	24V approx.15mA 110V approx. 2mA	DC: 1 0% AC: 2 0 %	a • R b Use inner protection resistors and no positive or negative distinction.

Switch Ratings

Rated Insulation Voltage(Ui)		660V						
Terminal Current (Ith)		10A Temperature rise does not exceed the current allowed by the maximum rating						
R	Rated Voltage		24V	48V	110V	220V	380V	500V
			10A	—	10A	6A	—	—
Potod Curront	ted Current DC	Inductive load	10A	—	6A	3A	1.8A	1.4A
Naleu Guirein		Resistive load	8A	4A	2.2A	1.1A	—	—
		Inductive load	4A	2A	1.1A	0.6A	—	—
Co	Contact material				Silv	er alloy		

Minimum adaptable load: 3VAC/DC 5mA (available range depends on the use environment and load type)

Installation Dimensions and circuit diagram

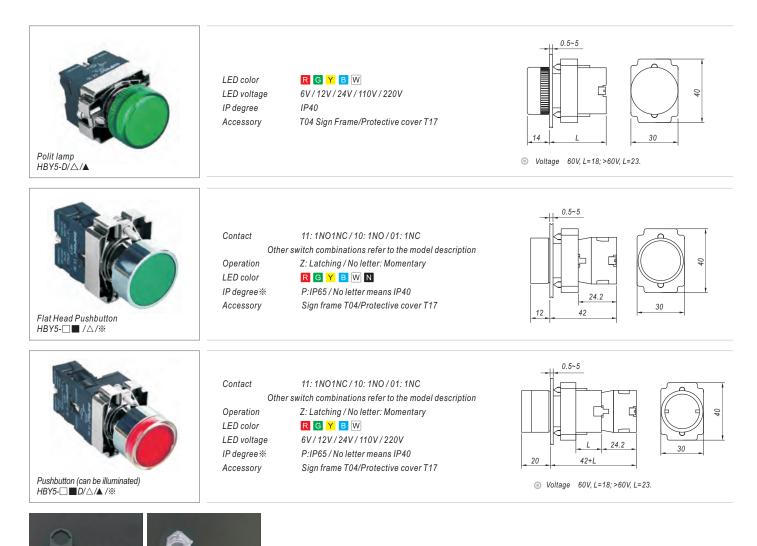
Installation Dimensions			Circuit Diagram	The switch code is 11. 1, 2 are normal closed; 3, 4 are normal opened;		
Туре	Type A B		С	Remark		
Normal,Key-lock	50	40				
Selector	50	40	Φ22	1、Unit: mm		
Mushroom	50	50	Ф25 Ф30	2, A and B both refer to the minimum size		
Big Mushroom	70	70				

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HBY5 Series model description

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Symbol	Symbol name	Specify		
\$	Structure type	E1: Simple type without letter means metal head		
*	The front shape	J: double head without light / S: double head with light / No letter means round		
	Contact structure	one group of switching elements 11(1NO1NC) / 10(1NO) / 01(1NC) / 20(2NO) / 02(2NC)		
		two groups of switching elements 22(2NO2NC) / 40(4NO) / 04(4NC) / 31(3NO1NC) / 13(1NO3NC) 30(3NO) / 03(3NC) / 21(2NO1NC) / 12(1NO2NC)		
		Three groups of switching elements configuration and so on, can choose the combination according to the need		
	Operation type	No letter means Momentary / D: Signal indicator/ Z: latching button / M: Mushroom button / ZM: latching mushroom button / MT: Push-pull emergency stop button / TS: Emergency stop knob / X: Knob / XB: Knob / Y: Key knob		
\diamond	Selector button and key button operation position	2:Two position / 3:Three position		
•	Selector Knob and Key Knob operation Type	1 maintain / 2 half return / 3 self return		
Δ	Lamp color	R: Red / G: Green / Y: Yellow / B: Blue / W: White/ N: Black		
	Lamp voltage	6V/12V/24V/110V/220V/No letter means no light		
*	IP Degree	FP: IP67 / P: IP65/ No letter means IP40		

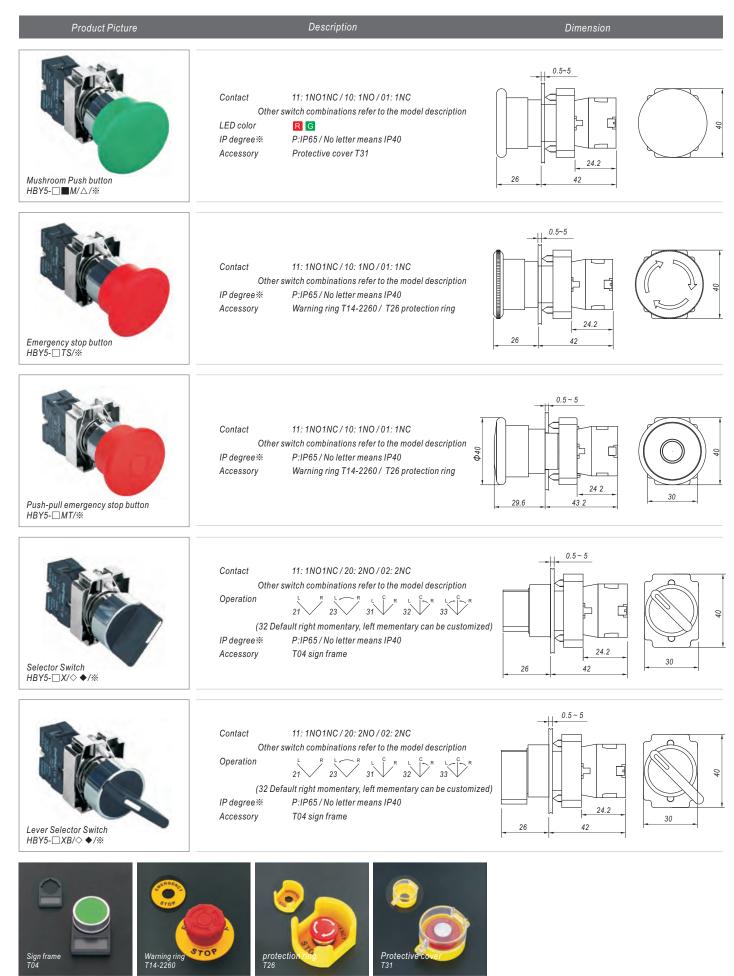


Protective cove T17

Sign frame T04

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