Pushbutton Switches

Illuminated Pushbutton Switches IP40/IP65/IP67



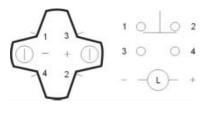
Characteristics:

- The installation hole's diameter of the series pushbutton: Φ 16mm.
- Every pushbutton can possess from one to four switch units.
- Use the gold-clad silver contact or silver contact.
- The front shape: Round (Φ18mm) Square (18x18mm) Rectangular (18x24mm)
- Many types are available: pilot lamp, pushbutton, illuminated pushbutton, selector switch, and keylock switch.
- IP Protective Degree: IP40, IP65, IP67

Specifications:

Operating Temperature		-25 $^\circ\!\mathrm{C}$ to +55 $^\circ\!\mathrm{C}$ (no freezing)	
Operating Humidity		45 to 85%RH (no condensation)	
Contact material			
Cont	act pressure	≈0.3N (30g)	
Cont	act Resistance	≤50mΩ	
Insul	ation Resistance	\geqslant 100M Ω	
Rateo	l insulation voltage	250V, AC/DC	
	Between contact and lamp terminals	2000V , AC 50Hz, 1min	
Dielectric S trength	Between terminals of the same pole	1000V , AC 50Hz, 1min	
Diel S tre	Between terminals of different pole	2000V , AC 50Hz, 1min	
Vibration Resistance		50Hz, Amplitude 1.2mm p-p	
Shoc	k Resistance	\geqslant 10g in all three planes	
Solde	ering Information	Less than 3s at 230 $^\circ\!\!\mathbb{C}$	
Life	Mechanical	1,000,000 times	
Life	Electrical	≥50,000 times	
Terminal		Diameter of welded wire: 2x 0.8mm max Area of copper wire: 0.75mm ² max	
Operating force		200gf~500gf (according to the quantity of switch units)	
Oper	ating travel	pprox3mm (pushbutton)	
IP Pr	otective Degree	IP40, IP65, IP67	

Bottom Preview



How to order

н	low to order:					
F	PB72	3	4 5 6 7 8			
1 Y J M DF DJ	5 1	B blank D Z Y X	DERIVATIVE CODE: Momentary Pilot Lamp Alternate Type Key Lock Type Selector Type	5 F E D G B	COLOR: Red Green Yellow Orange Blue White	JC JC
2 11 22 33 44	CONTACT STRUCTURE: 1NO 1NC 2NO 2NC 3NO 3NC 4NO 4NC	4 2 3	POSITION (for selector type & keylock type only): Two Positions Three Positions		Black LAMP RATINGS (see table above): LED AC 12V (for example) The specific rating of the lamp with illuminated button is included in th	

Installation Dimensions

в

Ф16^{+0.2}

-0.0

Switch Ratings:

	5				
Thermal Current (I_{th})		5A			
Rated Voltage		24V	125V (110V)	250V (220V)	
Direct Current (DC)		2A	0.2A	0.1A	
Alternating	P.F=1		5 A	3A	
current (AC)	P.F=0.7		3A	2A	

PB72 Series

Lamp Ratings :

AC LED Lamp (Standard)			Neon Lamp		
AC/DC6V	AC/DC	12V	AC/DC24V	AC110V	AC220V
AC/DC11	0V	AC/DC220V		ACTION	AC220V
red, green, yellow, orange, blue, white		red,	green		
About 40000 hours		About 20000	hours		
	AC/DC6V AC/DC11 red, green	AC/DC6V AC/DC AC/DC110V red, green, yellow	AC/DC6V AC/DC12V AC/DC110V AC red, green, yellow, orange	AC/DC6V AC/DC12V AC/DC24V AC/DC110V AC/DC220V red, green, yellow, orange, blue, white	AC/DC6V AC/DC12V AC/DC24V AC110V AC/DC110V AC/DC220V AC110V red, green, yellow, orange, blue, white red,

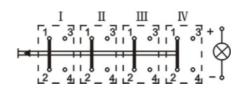
Note : The lamp contains current-limiting resistor inside and doesn't need extenal connection. DC LED lamp, dual-color LED lamp and other voltages can be customized.

Circuit Diagram :

Every pushbuttons can possess four switch units at most.

Specifications:

Self-clear away dirt, quick-break switch system and can be used as DPDT switch. Every switch unit also possesses a pair of NO contacts and a pair of NC contacts. Here is the circuit:



Category	A	В
Round	≥18mm	≥18mm
Square	≥18mm	≥18mm
Rectangular	≥18mm	≥24mm
Mushroom	≥24mm	≥24mm
Big square	≥24mm	≥24mm
Big rectangular	≥18mm	≥24mm

7	TERMINATION:
blank	Weld Type
JC	Quick Connect Type
8	IP PROTECTIVE DEGREE:
blank	IP40
IP65	IP65
IP67	IP67



illuminated unit ratings form.

Illuminated Pushbutton Switches IP40/IP65/IP67

PB72 Series

PB72 Pilot lamp

Model number	PB72Y_D_	PB72F_D_	PB72J_D_	
Shape	ROUND	SQUARE	RECTANGULAR	
Remark	Remark C Red F Green E Yellow D Orange G Blue B White A Black			

PB72 Pushbuttons, Illuminated Pushbuttons

Shape	Contact Configuration	Operation Type	Type No.	Remarks
ROUND	11/0 11/0	Momentary	PB72Y11_	
	1NO 1NC	Alternate	PB72Y11Z_	
State -	2NO 2NC	Momentary	PB72Y22_	
		Alternate	PB72Y22Z_	
	3NO 3NC	Momentary	PB72Y33_	
		Alternate	PB72Y33Z_	
	4NO 4NC	Momentary	PB72Y44_	
	4110 4110	Alternate	PB72Y44Z_	C Red
SQUARE	1NO 1NC	Momentary	PB72F11_	F Green E Yellow
	ino inc	Alternate	PB72F11Z_	D Orange G Blue
1-15	2NO 2NC	Momentary	PB72F22_	B White A Black
		Alternate	PB72F22Z_	
	3NO 3NC	Momentary	PB72F33_	
		Alternate	PB72F33Z_	Can be used with lamp The black cover c an't be used with th
	4NO 4NC	Momentary	PB72F44_	illuminated pushbuttons.
	4110 4110	Alternate	PB72F44Z_	IP40,IP65,IP67 is allowable
RECTANGULAR	1NO 1NC	Momentary	PB72J11_	
		Alternate	PB72J11Z_	
27	2NO 2NC	Momentary	PB72J22_	
		Alternate	PB72J22Z_	
	3NO 3NC	Momentary	PB72J33_	
	SNO SNC	Alternate	PB72J33Z_	
	4NO 4NC	Momentary	PB72J44_	
	THOTIC	Alternate	PB72J44Z_	
MUSHROOM	1NO 1NC	Momentary	PB72M11_	C Red
	nome	Alternate	PB72M11Z_	F Green E Yellow
-	2NO 2NC	Momentary	PB72M22_	D Orange G Blue
		Alternate	PB72M22Z_	B White A Black
	3NO 3NC	Momentary	PB72M33_	Can be used with lamp
		Alternate	PB72M33Z_	 The black cover can't be used with the illuminated pushbuttons.
	4NO 4NC	Momentary	PB72M44_	IP40,IP65 is allowable
	4110 4110	Alternate	PB72M44Z_	

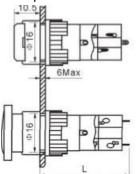


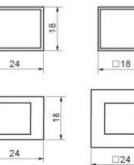
Pushbutton Switches

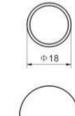
Illuminated Pushbutton Switches IP40/IP65/IP67

PB72 Series

BIG SQUARE	1NO 1NC	Momentary	PB72DF11_	C Red
-	The file	Alternate	PB72DF11Z_	F Green
	2NO 2NC	Momentary	PB72DF22_	E Yellow D Orange
	2110 2110	Alternate	PB72DF22Z_	G Blue B White
	3NO 3NC	Momentary	PB72DF33_	A Black
	5110 5110	Alternate	PB72DF33Z_	• Can be used with lamp • The black cover can't be used with the
	4NO 4NC	Momentary	PB72DF44_	illuminated pushbuttons.
	4110 4110	Alternate	PB72DF44Z_	IP40,IP65 is allowable
BIG RECTANGULAR	1NO 1NC	Momentary	PB72DJ11_	
		Alternate	PB72DJ11Z_	
8	2NO 2NC	Momentary	PB72DJ22_	-
	3NO 3NC	Alternate	PB72DJ22Z_	
		Momentary	PB72DJ33_	
		Alternate	PB72DJ33Z_	
	4NO 4NC	Momentary	PB72DJ44_	
	4110 4110	Alternate	PB72DJ44Z_	







Φ24

	Category	L
	Indicator	20mm
)	1NO, 1NC	29mm
1	2NO, 2NC	36.5mm
	3NO, 3NC	44mm
	4NO, 4NC	51.5mm

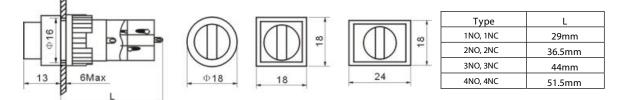
PB72 Selector Switches: Product Cutline

Shape	Contact Configuration	Type No.	Remarks
ROUND	1NO 1NC	PB72Y11X2_	
	2NO 2NC	PB72Y22X2	
	3NO 3NC	PB72Y33X2	
	4NO 4NC	PB72Y44X2	
QUARE	1NO 1NC	PB72F11X2_	C Red F Green
	2NO 2NC	PB72F22X2	A Black
	3NO 3NC	PB72F33X2	Can be used with lamp IP40 is allowable
	4NO 4NC	PB72F44X2	The black cover can't be used with the illuminated
RECTANGULAR	1NO 1NC	PB72J11X2_	90 ° 2 Position Maintained.
	2NO 2NC	PB72J22X2	
1 Sec	ЗНО ЗНС	PB72J33X2	
	4NO 4NC	PB72J44X2	



Illuminated Pushbutton Switches IP40/IP65/IP67

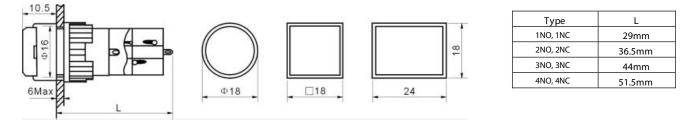
Shape & Dimensions



PB72 Key Lock Switches

Shape	Contact Configuration	Type No.	Remarks		
ROUND	1NO 1NC	PB72Y11Y2_			
	2NO 2NC	PB72Y22Y2			
	3NO 3NC	PB72Y33Y2			
	4NO 4NC	PB72Y44Y2			
SQUARE	1NO 1NC	PB72F11Y2_	90° 2 Position Maintained. • Two keys are supplied, the keys can be out in both position.		
	2NO 2NC	PB72F22Y2			
	3NO 3NC	PB72F33Y2			
	4NO 4NC	PB72F44Y2	IP40 is allowable		
RECT ANGULAR	1NO 1NC	PB72J11Y2_			
	2NO 2NC	PB72J22Y2]		
	3NO 3NC	PB72J33Y2			
	4NO 4NC	PB72J44Y2			

Shape & Dimensions





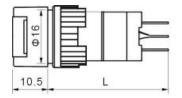
Illuminated Pushbutton Switches IP40/IP65/IP67

PB72 Series

PB72 Pilot lamp, Pushbuttons and Illumi nated Pushbuttons (JC: Quick Connect Type)

Shape	Contact Configuration	Operation T ype	Type No.	Remarks
ROUND		P ilot Lamp	PB72Y_D_JC_	C Red F Green E Yellow D Orange G Blue B White A Black • Can be used with lamp • The black cover can't be used with the illuminated pushbuttons. • IP40,IP65,IP67 is allowable
	1NO 1NC	Momentary	PB72Y11_JC	
	ino inc	Alternate	PB72Y11Z_JC	
	2NO 2NC	Momentary	PB72Y22_JC	
	2110 2110	Alternate	PB72Y22Z_JC	
SQUARE		P ilot Lamp	PB72F_D_JC	
	1NO 1NC	Momentary	PB72F11_JC	
	nome	Alternate	PB72F11Z_JC	
	2NO 2NC	Momentary	PB72F22_JC	
	2110 2110	Alternate	PB72F22Z_JC	
RECTANGULAR		P ilot Lamp	PB72J_D_JC	
	1NO 1NC	Momentary	PB72J11_JC	
	ino inc	Alternate	PB72J11Z_JC	
		Momentary	OB72J22_JC	
	2NO 2NC	Alternate	PB72J22Z_JC	

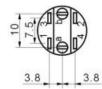
Shape & Dimensions











Туре	L	
1NO, 1NC	36mm	
2NO, 2NC	44mm	

