Illuminated Pushbutton Switches IP40/IP65/IP67

PB72 Series







Characteristics:

- ullet 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:

specifications.					
Operating Temperature		-25 °C to +55 °C (no freezing)			
Operating Humidity		45 to 85%RH (no condensation)			
Contact material		— silver — silver CdO — gold-clad silver			
Cont	act pressure	≈0.3N (30g)			
Cont	act Resistance	≤50mΩ			
Insula	ation Resistance	≥100MΩ			
Rated	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			
Vibra	tion Resistance	50Hz, Amplitude 1.2mm p-p			
Shoc	k Resistance	≥10g in all three planes			
Solde	ering Information	Less than 3s at 230 °C			
Life	Mechanical	1,000,000 times			
Lile	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	≈3mm (pushbutton)			
IP Pro	otective Degree	IP40, IP65, IP67			

Switch Ratings:

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	

Lamp Ratings:

•						
Lamp Type	AC LED Lamp (Standard)			Neo	n Lamp	
Rated V oltage	AC/DC6V	AC/DC12V AC/DC24V		AC110V	4.52201/	
Rated v ollage	AC/DC11	110V AC/DC220V		ACTION	AC220V	
Base Color	red, green, yellow, orange, blue, white			red,	green	
Life	About 40000 hours			About 20000	hours	

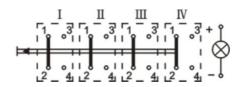
Note: The lamp contains current-limiting resistor inside and doesn't need extenal connection. DC LED lamp, dual-color LED lamp and other voltages can be customized.

Circuit Diagram:

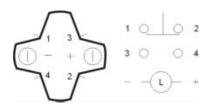
Every pushbuttons can possess four switch units at most.

Self-clear away dirt, quick-break switch system and can be used as DPDT switch.

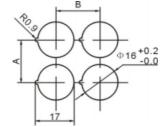
Every switch unit also possesses a pair of NO contacts and a pair of NC contacts. Here is the circuit:



Bottom Preview



Installation Dimensions



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

8

blank

IP65

IP PROTECTIVE DEGREE:

IP40

IP65

IP67

How to order:

PB72	2 3	4 5 6	8			
1 FRONT SHAPE:	3	DERIVATIVE CODE:	5	COLOR:	7	TERMINATION:
Y Round F Square	blank D	Momentary Pilot Lamp	C F	Red Green	blank JC	Weld Type Quick Connect Type

- Square Rectangular
- Mushroom
- Big Square Big Rectangular
- **CONTACT STRUCTURE:**
- 1NO 1NC 2NO 2NC
- 3NO 3NC
- 4NO 4NC
- Pilot Lamp Alternate Type Key Lock Type
- Selector Type
- (for selector type & keylock type only):
 - Two Positions Three Positions

- Yellow
- Blue

- Green
- Orange
- White
- LAMP RATINGS (see table above):

free LED AC 12V (for example)

The specific rating of the lamp with illuminated button is included in the illuminated unit ratings form.

Pushbutton Switches

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PB72 Series

PB72 Pilot lamp

Product Cutline

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

PB72 Pushbuttons, Illuminated Pushbuttons

Product Cutline

Shape	Contact Configuration	Operation Type	Type No.	Remarks
ROUND	1NO 1NC	Momentary	PB72Y11_	
		Alternate	PB72Y11Z_	
	2NO 2NC	Momentary	PB72Y22_	
	ZINO ZINC	Alternate	PB72Y22Z_	
	3NO 3NC	Momentary	PB72Y33_	
	SNO SNC	Alternate	PB72Y33Z_	
	4NO 4NC	Momentary	PB72Y44_	
	4110 4110	Alternate	PB72Y44Z_	C Red
SQUARE	1NO 1NC	Momentary	PB72F11_	F Green E Yellow
	THO THE	Alternate	PB72F11Z_	D Orange G Blue
7-18	2NO 2NC	Momentary	PB72F22_	B White A Black
	ZIVO ZIVC	Alternate	PB72F22Z_	A Diack
	3NO 3NC	Momentary	PB72F33_	
	SNO SNC	Alternate	PB72F33Z_	Can be used with lamp The black cover can't be used with the
	4NO 4NC	Momentary	PB72F44_	illuminated pushbuttons.
		Alternate	PB72F44Z_	• IP40,IP65,IP67 is allowable
RECTANGULAR	1NO 1NC	Momentary	PB72J11_	
		Alternate	PB72J11Z_	
3	2NO 2NC 3NO 3NC	Momentary	PB72J22_	
		Alternate	PB72J22Z_	
		Momentary	PB72J33_	
	SNO SNC	Alternate	PB72J33Z_	
	4NO 4NC	Momentary	PB72J44_	
	THOTHE	Alternate	PB72J44Z_	
MUSHROOM	1NO 1NC	Momentary	PB72M11_	C Red F Green
	THO THE	Alternate	PB72M11Z_	E Yellow
	2NO 2NC	Momentary	PB72M22_	D Orange G Blue
	2110 2110	Alternate	PB72M22Z_	B White A Black
	3NO 3NC	Momentary	PB72M33_	Can be used with lamp
	SINC SINC	Alternate	PB72M33Z_	The black cover can't be used with the illuminated pushbuttons.
	4NO 4NC	Momentary	PB72M44_	• IP40,IP65 is allowable
	4NO 4NC	Alternate	PB72M44Z_	

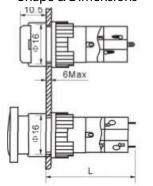
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PB72 Series

BIG SQUARE	1NO 1NC	Momentary	PB72DF11_	. C Red
_	INO INC	Alternate	PB72DF11Z_	F Green
	2NO 2NC	Momentary	PB72DF22_	E Yellow D Orange
	2NO 2NC	Alternate	PB72DF22Z_	G Blue B White
	3NO 3NC	Momentary	PB72DF33_	A Black
	3NO SNC	Alternate	PB72DF33Z_	• Can be used with la
	4NO 4NC	Momentary	PB72DF44_	illuminated pushbu • IP40,IP65 is allowab
		Alternate	PB72DF44Z_	
BIG RECTANGULAR	1NO 1NC	Momentary	PB72DJ11_	
		Alternate	PB72DJ11Z_	
3	2NO 2NC	Momentary	PB72DJ22_	
		Alternate	PB72DJ22Z_	
	3NO 3NC	Momentary	PB72DJ33_	
	SINO SINC	Alternate	PB72DJ33Z_	
	4NO 4NC	Momentary	PB72DJ44_	
	4110 4110	Alternate	PB72DJ44Z_	

- an't be used with the uttons.

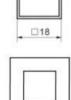
Shape & Dimensions





24

90



□24





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

PB72 Selector Switches:

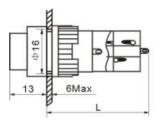
Product Cutline

Shape	Contact Configuration	Type No.	Remarks
ROUND	1NO 1NC	PB72Y11X2_	
	2NO 2NC	PB72Y22X2	
	3NO 3NC	PB72Y33X2	
	4NO 4NC	PB72Y44X2	
SQUARE	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	3NO 3NC	PB72J33X2	
	4NO 4NC	PB72J44X2	

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PB72 Series

Shape & Dimensions









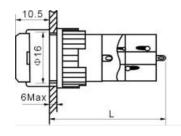
Type	L
1NO, 1NC	29mm
2NO, 2NC	36.5mm
3NO, 3NC	44mm
4NO, 4NC	51.5mm

PB72 Key Lock Switches

Product Cutline

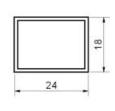
Shape	Contact Configuration	Type No.	Remarks
ROUND	1NO 1NC	PB72Y11Y2_	
	2NO 2NC	PB72Y22Y2	
	3NO 3NC	PB72Y33Y2	
	4NO 4NC	PB72Y44Y2	
SQUARE	1NO 1NC	PB72F11Y2_	L R
	2NO 2NC	PB72F22Y2	90° 2 Position Maintained.
6	3NO 3NC	PB72F33Y2	Two keys are supplied, the keys can be out in both position.
	4NO 4NC	PB72F44Y2	• IP40 is allowable
RECT ANGULAR	1NO 1NC	PB72J11Y2_	
	2NO 2NC	PB72J22Y2	
A	3NO 3NC	PB72J33Y2	
	4NO 4NC	PB72J44Y2	

Shape & Dimensions









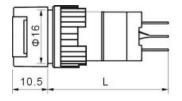
Туре	L	
1NO, 1NC	29mm	
2NO, 2NC	36.5mm	
3NO, 3NC	44mm	
4NO, 4NC	51.5mm	

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

Product Cutline

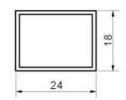
Shape	Contact Configuration	Operation T ype	Type No.	Remarks
ROUND		P ilot Lamp	PB72Y_D_JC_	
	1NO 1NC	Momentary	PB72Y11_JC	
		Alternate	PB72Y11Z_JC	
	2NO 2NC	Momentary	PB72Y22_JC	
		Alternate	PB72Y22Z_JC	
SQUARE		P ilot Lamp	PB72F_D_JC	C Red F Green E Yellow
	1NO 1NC	Momentary	PB72F11_JC	E Yellow D Orange 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
		Alternate	PB72F11Z_JC	
	2NO 2NC	Momentary	PB72F22_JC	
		Alternate	PB72F22Z_JC	
RECTANGULAR		P ilot Lamp	PB72J_D_JC	
	1NO 1NC	Momentary	PB72J11_JC	
		Alternate	PB72J11Z_JC	
	2NO 2NC -	Momentary	OB72J22_JC	
		Alternate	PB72J22Z_JC	

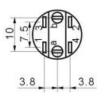
Shape & Dimensions











Туре	L
1NO, 1NC	36mm
2NO, 2NC	44mm