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:

Oper	ating	Temperature	-25 °C to +55 °C (no freezing)	
Operating Humidity			45 to 85%RH (no condensation)	
Contact material		naterial		
Cont	act p	ressure	≈0.3N (30g)	
Cont	act R	esistance	≤50mΩ	
Insul	ation	Resistance	≥100M Ω	
Rate	d insu	ılation voltage	250V , AC/DC	
	Ве	tween 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	ation	Resistance	50Hz, Amplitude 1.2mm p-p	
Shoc	k Res	istance	≥10g in all three planes	
Solde	ering	Information	Less than 3s at 230 °C	
Life		Mechanical	1,000,000 times	
Line		Electrical	≥50,000 times	
Terminal			Diameter of welded wire: 2x 0.8mm max Area of copper wire: 0.75mm ² max	
Operating force		force	200gf~500gf (according to the quantity of switch units)	
Oper	Operating travel		≈3mm (pushbutton)	
IP Pr	otect	ive Degree	IP40, IP65, IP67	

Switch Ratings:

Thermal Current (I _{th})		5A			
Rated Voltage		24V	125V (110V)	250V (220V)	
Direct Curren	Direct Current (DC)		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 ortage	AC/DC11	AC/DC110V AC/DC220V			ACTION ACZZOV	AC220V
Base Color	red, green, yellow, orange, blue, white			red,	green	
Life	About 40000 hours			About 20000	hours	

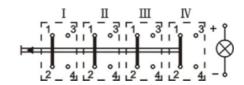
Note: The lamp contains current-limiting resistor inside and doesn't need extenal connection. DC LED lamp, dual-color LED lamp and other voltages can be customized.

Circuit Diagram:

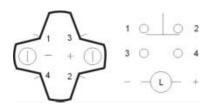
Every pushbuttons can possess four switch units at most.

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

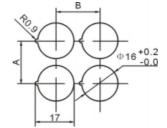
Every switch unit also possesses a pair of NO contacts and a pair of NC contacts. Here is the circuit:



Bottom Preview



Installation Dimensions



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

8

blank

IP65

Quick Connect Type

IP40

IP65

IP67

IP PROTECTIVE DEGREE:

How to order:

PB72	3	4 5 6	7 8			
FRONT SHAPE: Y Round	3 blank	DERIVATIVE CODE: Momentary	5 C	COLOR: Red	7 blank	TERMINATION: Weld Type

- Big Square
- Square Rectangular Mushroom
- DJ 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
- Green
- Yellow
- Orange
- Blue 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	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_	
	INO INC	Alternate	PB72Y11Z_	
	2NO 2NC	Momentary	PB72Y22_	
	2NO 2NC	Alternate	PB72Y22Z_	
	3NO 3NC	Momentary	PB72Y33_	
	3110 3110	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
	2NO 2NC	Momentary	PB72F22_	B White A Black
	ZIVO ZIVC	Alternate	PB72F22Z_	A Diack
	3NO 3NC	Momentary	PB72F33_	
		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_	
	SIVO SIVE	Alternate	PB72J33Z_	
	4NO 4NC	Momentary	PB72J44_	
	4110 4110	Alternate	PB72J44Z_	
MUSHROOM	1NO 1NC	Momentary	PB72M11_	C Red F Green
	INO INC	Alternate	PB72M11Z_	E Yellow
	2NO 2NC	Momentary	PB72M22_	D Orange G Blue
	ZIVO ZIVO	Alternate	PB72M22Z_	B White A Black
	3NO 3NC	Momentary	PB72M33_	Can be used with lamp
	2140 2140	Alternate	PB72M33Z_	The black cover can't be used with the illuminated pushbuttons.
	4NO 4NC	Momentary	PB72M44_	• IP40,IP65 is allowable
	7110 4110	Alternate	PB72M44Z_	

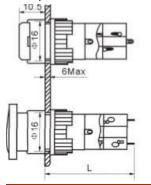
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PB72 Series

BIG SQUARE	1NO 1NC	Momentary	PB72DF11_	. C Red
_	oe	Alternate	PB72DF11Z_	F Green
	2NO 2NC	Momentary	PB72DF22_	E Yellow D Orange
		Alternate	PB72DF22Z_	G Blue B White
	2010 2015	Momentary	PB72DF33_	A Black
	3NO 3NC	Alternate	PB72DF33Z_	Can be used with lamp The black cover can't
	4NO 4NC	Momentary	PB72DF44_	illuminated pushbutton
	4110 4110	Alternate	PB72DF44Z_	• IP40,IP65 is allowable
BIG RECTANGULAR	1NO 1NC	Momentary	PB72DJ11_	
	INO INC	Alternate	PB72DJ11Z_	
3	2NO 2NC	Momentary	PB72DJ22_	
		Alternate	PB72DJ22Z_	
	3NO 3NC	Momentary	PB72DJ33_	
	3NO SINC	Alternate	PB72DJ33Z_	
	4NO 4NC	Momentary	PB72DJ44_	
	4NO 4NC	Alternate	PB72DJ44Z_	

t be used with the

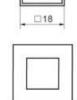
Shape & Dimensions





24

90



□24





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

PB72 Selector Switches:

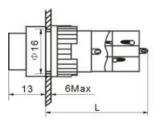
Product Cutline

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	
180	3NO 3NC	PB72J33X2	
	4NO 4NC	PB72J44X2	

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PB72 Series

Shape & Dimensions









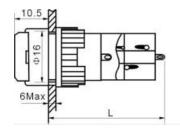
Type	L
1NO, 1NC	29mm
2NO, 2NC	36.5mm
3NO, 3NC	44mm
4NO, 4NC	51.5mm

PB72 Key Lock Switches

Product Cutline

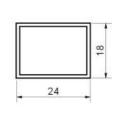
Product Cutline		1	
Shape	Contact Configuration	Type No.	Remarks
ROUND	1NO 1NC	PB72Y11Y2_	
	2NO 2NC	PB72Y22Y2	
	3NO 3NC	PB72Y33Y2	
	4NO 4NC	PB72Y44Y2	
SQUARE	1NO 1NC	PB72F11Y2_	L R
	2NO 2NC	PB72F22Y2	90° 2 Position Maintained.
6	3NO 3NC	PB72F33Y2	Two keys are supplied, the keys can be out in both position.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

Shape & Dimensions









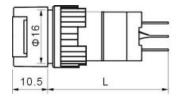
Туре	L	
1NO, 1NC	29mm	
2NO, 2NC	36.5mm	
3NO, 3NC	44mm	
4NO, 4NC	51.5mm	

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

Product Cutline

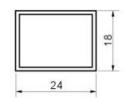
Shape	Contact Configuration	Operation T ype	Type No.	Remarks
ROUND		P ilot Lamp	PB72Y_D_JC_	
	1NO 1NC	Momentary	PB72Y11_JC	
		Alternate	PB72Y11Z_JC	
	2NO 2NC	Momentary	PB72Y22_JC	
		Alternate	PB72Y22Z_JC	
SQUARE		P ilot Lamp	PB72F_D_JC	C Red F Green E Yellow
	1NO 1NC	Momentary	PB72F11_JC	E Yellow D Orange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

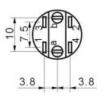
Shape & Dimensions











Туре	L
1NO, 1NC	36mm
2NO, 2NC	44mm