

# Button Switch $\Phi 16$

Quality as the root · Service as the base



YJ-LA16 Series Button Switch



## GENERAL

1. Installation dimensions:  $\Phi 16$ mm.
2. The shape of head: round, square, rectangle.
3. Function: signal, momentary button, maintained button,  
Illuminated button, selector switch, key-lock selector switch,  
emergency button, mushroom button.
4. Optional contacts: 1NO1NC / 2NO2NC/ 2NC
5. IP degree: IP40, IP65, IP67  
(The specific IP degree is detailed in the selection instructions)

## SPECIFICATION

Operating temperature	-25°C~+55°C (Ice free)		
Operating humidity	45~85%RH		
Contact resistance	< 30m $\Omega$		
Insulation resistance	> 100M $\Omega$		
Dielectric strength	Between contact and lamp terminal	2000VAC/60s	
	Between terminal of the same pole	1500VAC/60s	
	Between terminal of the different pole	2000VAC/60s	
Solder heat resistance	230°C no more than 3s		
Operating travel	(push button) about 3mm		
Life	Mechanical life	Momentary	$\geq 1,000,000$ times
		Maintained Selector switch	$\geq 500,000$ times
		Key-lock switch Emergency button	$\geq 300,000$ times
	Electrical life	$\geq 100,000$ times	
Vibration resistance	50Hz, Amplitude 1.0mm		
Shock resistance	> 10g		
Terminal	Diameter of welded wire: 2 $\times$ 0.8mm Area of copper wire max: 2 $\times$ 0.8mm Connecting link: 2.8 $\times$ 0.5mm		

Soldering requirements: Finish soldering within 20W/5s or 230°C/3s.  
When soldering, soldering iron should not touch crust, and do not apply force on the terminal.

## SWITCH RATING

Rated insulation voltage(Ui)		250V				
Thermal current(Ith)		5A				
Rated voltage(Ue)		12V	24V	110V	220V	
Rated current (Ie)	AC-15 50/60Hz	Resistive load	5A	5A	5A	3A
		Inductive load	5A	5A	3A	2A
	DC-13	Resistive load	1A	1A	0.2A	0.1A
		Inductive load	0.7A	0.7A	0.1A	-
Contact Material		Silver alloy				

Minimum adaptive load: 3V AC/DC 5mA (reference value) (The scope of usage depends on the usage environment and load type)

## LAMP SPECIFICATIONS

Lamp type	Two-way LED lamp	
Rated voltage	AC/DC 3V	AC/DC 6V
	AC/DC 12V	AC/DC 24V
	AC/DC 36V	AC/DC 48V
	AC/DC 110V	AC/DC 220V
Lamp color	R ● G ● Y ● B ● W ○	
Life	$\geq 40000$ h	

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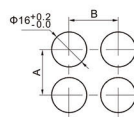


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## CONTACT DESCRIPTION

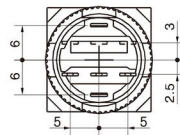
1NO1NC	Terminal arrangement
2NO2NC	Terminal arrangement
2NC	Terminal arrangement

## INSTALLATION DIMENSION

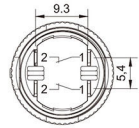


Categorg	A	B
Round	$\geq 18\text{mm}$	$\geq 18\text{mm}$
Square	$\geq 18\text{mm}$	$\geq 18\text{mm}$
Rectangular	$\geq 18\text{mm}$	$\geq 24\text{mm}$
Mushroom_emergency	$\geq 24\text{mm}$	$\geq 24\text{mm}$
Big emergency	$\geq 30\text{mm}$	$\geq 30\text{mm}$

## BOTTOM VIEW



1NO1NC or 2NO2NC



2NC

## IMPLICATION OF TYPE

YJ-LA16-	⊙	▲/	■	△	○
Code of series	Contact:	Operating type:	The front shape:	Lamp voltage:	Color :
	11: 1NO1NC 22: 2NO2NC 02: 2NC	BN: Momentary BNZS: Maintained DN: Illuminated DNZS: Illuminated maintained M: Mushroom momentary MD: Illuminated mushroom momentary MZS: Mushroom maintained MZSD: Illuminated mushroom maintained ZS: Emergency button ZS/A: Big emergency button ZS/B: B type Short emergency button ZS/C: C type Short emergency button X/21: Two position selector X/31: Three position selector XD/21: Illuminated two position selector XD/31: Illuminated three position selector Y/21: Two position key-lock selector Y/31: Three position key-lock selector	No letters: There is only one shape by default; Y: round F: square J: rectangular	3V 6V 12V 24V 36V 48V 110V 220V	<div style="display: flex; flex-direction: column; gap: 5px;"> <span style="color: red;">■</span> R</div> <div style="display: flex; flex-direction: column; gap: 5px;"> <span style="color: green;">■</span> G</div> <div style="display: flex; flex-direction: column; gap: 5px;"> <span style="color: yellow;">■</span> Y</div> <div style="display: flex; flex-direction: column; gap: 5px;"> <span style="color: blue;">■</span> B</div> <div style="display: flex; flex-direction: column; gap: 5px;"> <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> W</div> <div style="display: flex; flex-direction: column; gap: 5px;"> <span style="background-color: black; color: white; display: inline-block; width: 10px; height: 10px;"></span> BL</div>

Note: the above table is only for model explanation, and some model combinations have no actual products. See the following figure for specific products.

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## PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
	Round signal lamp	YJ-LA16-D/Y $\Delta$ ○	·IP Degree : IP54 
	Square signal lamp	YJ-LA16-D/F $\Delta$ ○	
	Rectangle signal lamp	YJ-LA16-D/J $\Delta$ ○	
	Round momentary	YJ-LA16A-○BN/Y○	·IP Degree : IP54 ·This button can prevent collision 
	Round maintained	YJ-LA16A-○BNZS/Y○	
	Round illuminated momentary	YJ-LA16A-○DN/Y $\Delta$ ○	
	Round illuminated maintained	YJ-LA16A-○DNZS/Y $\Delta$ ○	
	Round momentary	YJ-LA16-○BN/Y○	·IP Degree : IP54 ·IP67 waterproof cover 
	Round maintained	YJ-LA16-○BNZS/Y○	
	Round illuminated momentary	YJ-LA16-○DN/Y $\Delta$ ○	
	Round illuminated maintained	YJ-LA16-○DNZS/Y $\Delta$ ○	
	Square momentary	YJ-LA16-○BN/FO	
	Square maintained	YJ-LA16-○BNZS/FO	
	Square illuminated momentary	YJ-LA16-○DN/F $\Delta$ ○	
	Square illuminated maintained	YJ-LA16-○DNZS/F $\Delta$ ○	
	Rectangular momentary	YJ-LA16-○BN/JO	
	Rectangular maintained	YJ-LA16-○BNZS/JO	
	Rectangular illuminated momentary	YJ-LA16-○DN/J $\Delta$ ○	
	Rectangular illuminated maintained	YJ-LA16-○DNZS/J $\Delta$ ○	


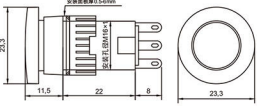

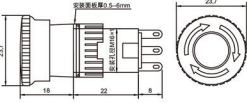

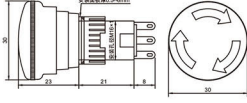

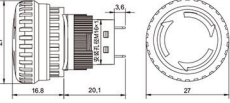

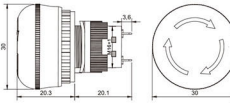
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## PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
	Mushroom momentary	YJ-LA16- $\odot$ MO	· Selective Color $\odot$ <b>R</b> <b>G</b> 
	Mushroom maintained	YJ-LA16- $\odot$ MZSO	
	Mushroom illuminated momentary	YJ-LA16- $\odot$ MD $\Delta$ $\odot$	
	Mushroom illuminated maintained	YJ-LA16- $\odot$ MZSD $\Delta$ $\odot$	
	Emergency push button	YJ-LA16-11ZS	·IP Degree : IP54 ·IP65 need customization 
		YJ-LA16-22ZS	
	Big emergency push button	YJ-LA16-11ZS/A	·IP Degree : IP54 ·IP65/IP67 need customization 
		YJ-LA16-22ZS/A	
	B type short emergency push button	YJ-LA16-02ZS/B	·IP Degree : IP54 ·IP65 need customization 
	C type short emergency push button	YJ-LA16-02ZS/C	·IP Degree : IP54 ·IP65 need customization 


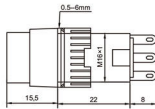


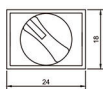



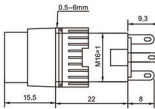


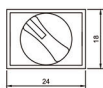


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## PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
<input type="radio"/> Contact 11:1N01NC; 22:2N02NC <input type="checkbox"/> LED voltage 3V 6V 12V 24V 36V 48V 110V 220V <input type="radio"/> Color <b>R</b> <b>G</b> <b>Y</b> <b>B</b> <b>W</b> <b>BL</b>			
	Round 2 position selector switch	YJ-LA16-11X/21/Y	·IP Degree : IP40 ·Default black, Selective Color: <b>R</b> <b>G</b>        
	Round 2 position selector switch	YJ-LA16-22X/21/Y	
	Round 3 position selector switch	YJ-LA16-22X/31/Y	
	Square 2 position selector switch	YJ-LA16-11X/21/F	
	Square 2 position selector switch	YJ-LA16-22X/21/F	
	Square 3 position selector switch	YJ-LA16-22X/31/F	
	Rectangular 2 position selector switch	YJ-LA16-11X/21/J	
	Rectangular 2 position selector switch	YJ-LA16-22X/21/J	
	Rectangular 3 position selector switch	YJ-LA16-22X/31/J	
	Round 2 position illuminated selector switch	YJ-LA16-11XD/21/Y $\Delta$ <input type="radio"/>	·IP Degree : IP40 ·Default black, Selective Color: <b>R</b> <b>G</b>        
	Round 2 position illuminated selector switch	YJ-LA16-22XD/21/Y $\Delta$ <input type="radio"/>	
	Round 3 position illuminated selector switch	YJ-LA16-22XD/31/Y $\Delta$ <input type="radio"/>	
	Square 2 position illuminated selector switch	YJ-LA16-11XD/21/F $\Delta$ <input type="radio"/>	
	Square 2 position illuminated selector switch	YJ-LA16-22XD/21/F $\Delta$ <input type="radio"/>	
	Square 3 position illuminated selector switch	YJ-LA16-22XD/31/F $\Delta$ <input type="radio"/>	
	Rectangular 2 position illuminated selector switch	YJ-LA16-11XD/21/J $\Delta$ <input type="radio"/>	
	Rectangular 2 position illuminated selector switch	YJ-LA16-22XD/21/J $\Delta$ <input type="radio"/>	
	Rectangular 3 position illuminated selector switch	YJ-LA16-22XD/31/J $\Delta$ <input type="radio"/>	


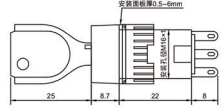


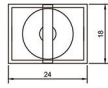


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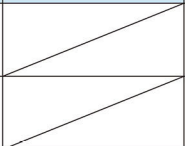






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## PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
	Round 2 position key-lock selector switch	YJ-LA16-11Y/21/Y	·IP Degree : IP40 ·Provide 2 keys, each of which is common ·The key can be removed at every position     
	Round 2 position key-lock selector switch	YJ-LA16-22Y/21/Y	
	Round 3 position key-lock selector switch	YJ-LA16-22Y/31/Y	
	Square 2 position key-lock selector switch	YJ-LA16-11Y/21/F	
	Square 2 position key-lock selector switch	YJ-LA16-22Y/21/F	
	Square 3 position key-lock selector switch	YJ-LA16-22Y/31/F	
	Rectangular 2 position key-lock selector switch	YJ-LA16-11Y/21/J	
	Rectangular 2 position key-lock selector switch	YJ-LA16-22Y/21/J	
	Rectangular 3 position key-lock selector switch	YJ-LA16-22Y/31/J	

## WORKING POSITION AND CORRESPONDING CONTACT STATE OF SELECTOR SWITCH

POSITION (maintained , no momentary)	Contact	Contact state of each position		
		Left	Middle	Right
90° two position 	1NO1NC			
	2NO2NC			
45° three position 	2NO2NC	