

# Button Switch $\Phi 16$

## 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
5. IP degree: IP40, IP65, IP67  
(The specific IP degree is detailed in the selection instructions)

### 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)

### SPECIFICATION

Operating temperature		-25°C~+55°C (Ice free)	
Operating humidity		45~85%RH	
Contact resistance		$\leq 30\text{m}\Omega$	
Insulation resistance		$\geq 100\text{M}\Omega$	
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		$> 10\text{g}$	
Terminal		Diameter of welded wire: $2 \times 0.8\text{mm}$ Area of copper wire max: $2 \times 0.8\text{mm}^2$ Connecting link: $2.8 \times 0.5\text{mm}$	

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.

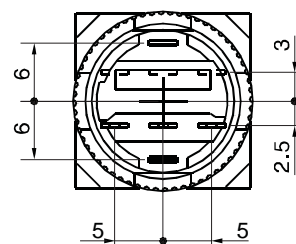
### LAMP SPECIFICATIONS

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	$\geq 40000\text{h}$	

### CONTACT DESCRIPTION

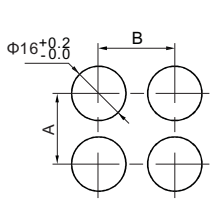
1NO1NC	Terminal arrangement
2NO2NC	Terminal arrangement

### BOTTOM VIEW



### INSTALLATION DIMENSION

Categrog	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	$\geq 30\text{mm}$	$\geq 30\text{mm}$



# Button Switch $\Phi 16$

Quality as the root · Service as the base



## YJ-LA16 Series Button Switch

### IMPLICATION OF TYPE

YJ-LA16-	⊙	▲/	■	△	○
Code of series	Contact: 11: 1NO1NC 22: 2NO2NC	Operating type: BN: Momentary BNZS: Maintained DN: Illuminated DNZS: Illuminated maintained M: Mushroom momentary MZS: Mushroom maintained ZS: Emergency button ZS/A: Big emergency button ZS/B: Short emergency button X/21: Two position selector X/31: Three position selector Y/21: Two position key-lock selector Y/31: Three position key-lock selector	The front shape: Y: round F: square J: rectangular	Lamp voltage: 3V 6V 12V 24V 36V 48V 110V 220V	Color: ■ R ■ G ■ Y ■ B □ W ■ BL

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

### PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
	Round signal lamp	YJ-LA16-D/Y△○	·IP Degree : IP54 
	Square signal lamp	YJ-LA16-D/F△○	
	Rectangle signal lamp	YJ-LA16-D/J△○	
	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△○	
	Round illuminated maintained	YJ-LA16A-⊙DNZS/Y△○	

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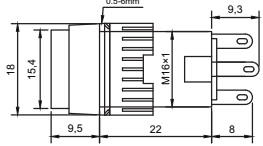

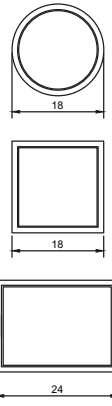

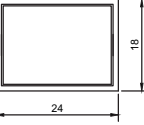

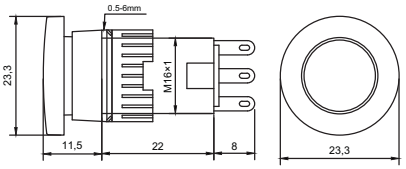

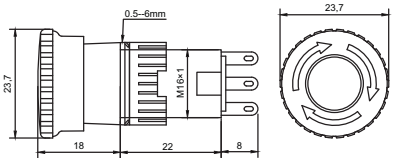

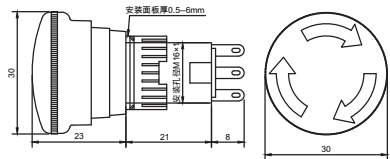

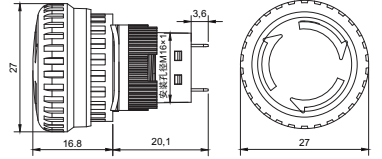
## YJ-LA16 Series Button Switch

### PRODUCT SELECTION

⊙ Contact 11:1NO1NC; 22:2NO2NC

△ LED voltage 3V 6V 12V 24V 36V 48V 110V 220V


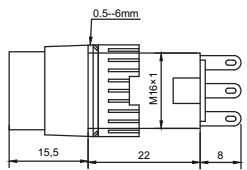
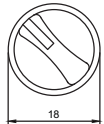
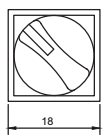
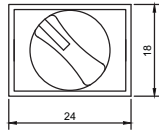



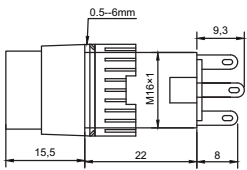
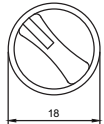
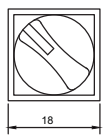
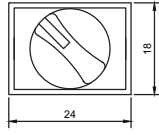


○ Color **R** **G** **Y** **B** **W** **BL**

Picture	Operation	Model	Shape Dimensions
	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△○	
	Round illuminated maintained	YJ-LA16-⊙DNZS/Y△○	
	Square momentary	YJ-LA16-⊙BN/FO	
	Square maintained	YJ-LA16-⊙BNZS/FO	
	Square illuminated momentary	YJ-LA16-⊙DN/F△○	
	Square illuminated maintained	YJ-LA16-⊙DNZS/F△○	
	Rectangular momentary	YJ-LA16-⊙BN/JO	
	Rectangular maintained	YJ-LA16-⊙BNZS/JO	
	Rectangular illuminated momentary	YJ-LA16-⊙DN/J△○	
	Rectangular illuminated maintained	YJ-LA16-⊙DNZS/J△○	
	Mushroom momentary	YJ-LA16-⊙MO	· Selective Color ○: <b>R</b> <b>G</b> 
	Mushroom maintained	YJ-LA16-⊙MZSO	
	Mushroom illuminated momentary	YJ-LA16-⊙MD△○	
	Mushroom illuminated maintained	YJ-LA16-⊙MZSD△○	
	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	
	Short emergency push button	YJ-LA16-02ZS/B	·IP Degree : IP54 ·IP65 need customization 

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## YJ-LA16 Series Button Switch

### PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
	Round 2 position selector switch	YJ-LA16-11X/21/Y	<p>·IP Degree : IP40 ·Default black, Selective Color: <b>R G</b></p>    
	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 $\Delta$ ○	<p>·IP Degree : IP40 ·Default black, Selective Color: <b>R G</b></p>    
	Round 2 position illuminated selector switch	YJ-LA16-22XD/21/Y $\Delta$ ○	
	Round 3 position illuminated selector switch	YJ-LA16-22XD/31/Y $\Delta$ ○	
	Square 2 position illuminated selector switch	YJ-LA16-11XD/21/F $\Delta$ ○	
	Square 2 position illuminated selector switch	YJ-LA16-22XD/21/F $\Delta$ ○	
	Square 3 position illuminated selector switch	YJ-LA16-22XD/31/F $\Delta$ ○	
	Rectangular 2 position illuminated selector switch	YJ-LA16-11XD/21/J $\Delta$ ○	
	Rectangular 2 position illuminated selector switch	YJ-LA16-22XD/21/J $\Delta$ ○	
	Rectangular 3 position illuminated selector switch	YJ-LA16-22XD/31/J $\Delta$ ○	


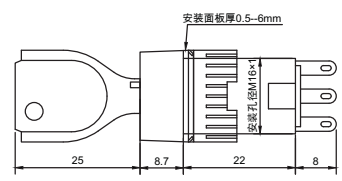
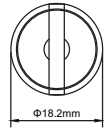
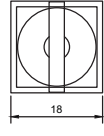
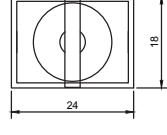


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

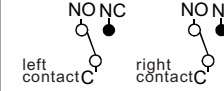
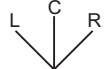


## YJ-LA16 Series Button Switch

### PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
	Round 2 position key-lock selector switch	YJ-LA16-11Y/21/Y	<p>·IP Degree : IP40 ·Provide 2 keys, each of which is common ·The key can be removed at every position</p>    
	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	