

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 Ω		
Insulation resistance	> 100M Ω		
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	≥ 40000 h	

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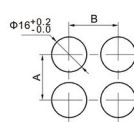


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CONTACT DESCRIPTION

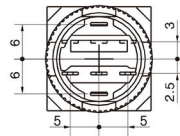
1NO1NC	Terminal arrangement
2NO2NC	Terminal arrangement
2NC	Terminal arrangement

INSTALLATION DIMENSION

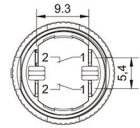


Categorg	A	B
Round	≥18mm	≥18mm
Square	≥18mm	≥18mm
Rectangular	≥18mm	≥24mm
Mushroom_emergency	≥24mm	≥24mm
Big emergency	≥30mm	≥30mm

BOTTOM VIEW



1NO1NC or 2NO2NC



2NC

IMPLICATION OF TYPE

YJ-LA16-	⊙	▲/	■	△	○
Code of series	Contact: 11: 1NO1NC 22: 2NO2NC 02: 2NC	Operating type: 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	The front shape: No letters: There is only one shape by default; 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.

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PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
	Round signal lamp	YJ-LA16-D/Y Δ ○	·IP Degree : IP54
	Square signal lamp	YJ-LA16-D/F Δ ○	
	Rectangle signal lamp	YJ-LA16-D/J Δ ○	
	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 Δ ○	
	Round illuminated maintained	YJ-LA16A-○DNZS/Y Δ ○	
	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 Δ ○	
	Round illuminated maintained	YJ-LA16-○DNZS/Y Δ ○	
	Square momentary	YJ-LA16-○BN/F○	
	Square maintained	YJ-LA16-○BNZS/F○	
	Square illuminated momentary	YJ-LA16-○DN/F Δ ○	
	Square illuminated maintained	YJ-LA16-○DNZS/F Δ ○	
	Rectangular momentary	YJ-LA16-○BN/J○	
	Rectangular maintained	YJ-LA16-○BNZS/J○	
	Rectangular illuminated momentary	YJ-LA16-○DN/J Δ ○	
	Rectangular illuminated maintained	YJ-LA16-○DNZS/J Δ ○	


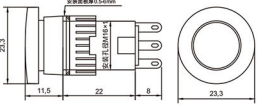

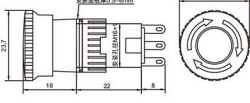

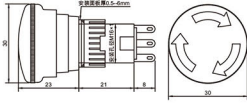

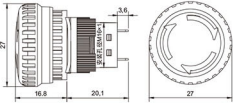

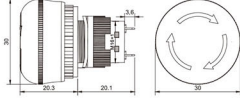
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Picture	Operation	Model	Shape Dimensions
	Mushroom momentary	YJ-LA16- \odot MO	· Selective Color \odot R G 
	Mushroom maintained	YJ-LA16- \odot MZSO	
	Mushroom illuminated momentary	YJ-LA16- \odot MD Δ \odot	
	Mushroom illuminated maintained	YJ-LA16- \odot MZSD Δ \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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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 R G Y B W BL			
	Round 2 position selector switch	YJ-LA16-11X/21/Y	·IP Degree : IP40 ·Default black, Selective Color: R G
	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 Δ \circ	·IP Degree : IP40 ·Default black, Selective Color: R G
	Round 2 position illuminated selector switch	YJ-LA16-22XD/21/Y Δ \circ	
	Round 3 position illuminated selector switch	YJ-LA16-22XD/31/Y Δ \circ	
	Square 2 position illuminated selector switch	YJ-LA16-11XD/21/F Δ \circ	
	Square 2 position illuminated selector switch	YJ-LA16-22XD/21/F Δ \circ	
	Square 3 position illuminated selector switch	YJ-LA16-22XD/31/F Δ \circ	
	Rectangular 2 position illuminated selector switch	YJ-LA16-11XD/21/J Δ \circ	
	Rectangular 2 position illuminated selector switch	YJ-LA16-22XD/21/J Δ \circ	
	Rectangular 3 position illuminated selector switch	YJ-LA16-22XD/31/J Δ \circ	


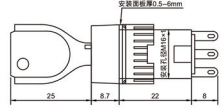


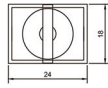


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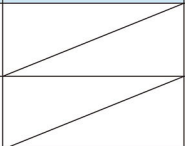






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PRODUCT SELECTION

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	