

Button Switch $\Phi 16$

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YJ-LA16 Series Button Switch



GENERAL

1. Installation dimensions: $\Phi 16\text{mm}$.
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		$-25^{\circ}\text{C} \sim +55^{\circ}\text{C}$ (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: $2 \times 0.8\text{mm}$ Connecting link: $2.8 \times 0.5\text{mm}$	

Soldering requirements: Finish soldering within 20W/5s or $230^{\circ}\text{C}/3\text{s}$.
When soldering, soldering iron should not touch crust, and do not apply force on the terminal.

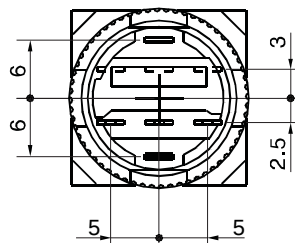
LAMP SPECIFICATIONS

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

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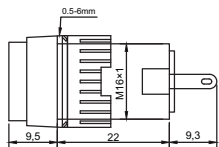
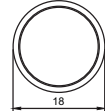
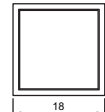
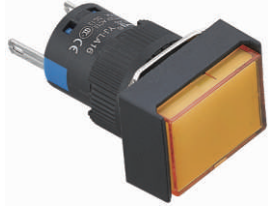
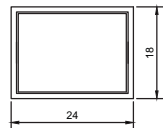
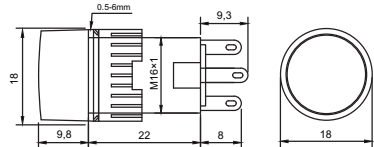
YJ-LA16 Series Button Switch

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

 Contact	11:1NO1NC; 22:2NO2NC	 LED voltage	3V 6V 12V 24V 36V 48V 110V 220V	 Color	
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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PRODUCT SELECTION

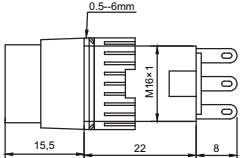
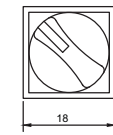
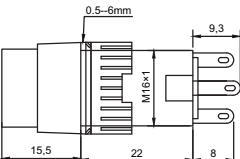
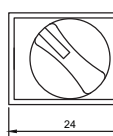
☐ Color ☒ R ☒ G ☒ Y ☒ B ☐ W ☐ BL

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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 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△○	·IP Degree : IP40 ·Default black, Selective Color○: R G 
	Round 2 position illuminated selector switch	YJ-LA16-22XD/21/Y△○	
	Round 3 position illuminated selector switch	YJ-LA16-22XD/31/Y△○	
	Square 2 position illuminated selector switch	YJ-LA16-11XD/21/F△○	
	Square 2 position illuminated selector switch	YJ-LA16-22XD/21/F△○	
	Square 3 position illuminated selector switch	YJ-LA16-22XD/31/F△○	
	Rectangular 2 position illuminated selector switch	YJ-LA16-11XD/21/J△○	
	Rectangular 2 position illuminated selector switch	YJ-LA16-22XD/21/J△○	
	Rectangular 3 position illuminated selector switch	YJ-LA16-22XD/31/J△○	

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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			