Button Switch Φ16

Quality as the root - Service as the base

YIJIA

YJ-LA16 Series Button Switch



GENERAL

1.Installation dimensions:Φ16mm.
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

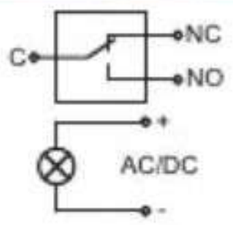
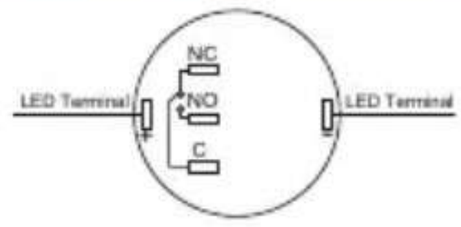
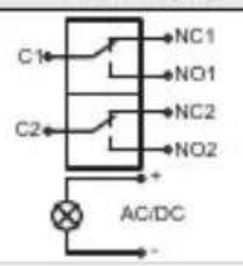
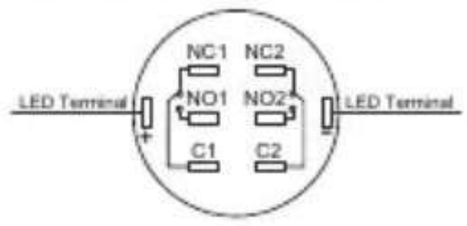
Operating temperature			-25℃~+55℃ (Ice free)
Operating humidity			45~85%RH
Contact resistance			≤30mΩ
Insulation resistance			≥100MΩ
Dielectric streagth	Between contact and lamp terminal		2000VAC/60s
	Between terminal of the same pole		1500VAC/60s
	Between terminal of the different pole		2000VAC/60s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

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

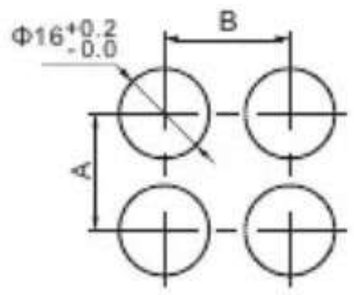
LAMP SPECIFICATIONS

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	≥40000h	

CONTACT DESCRIPTION

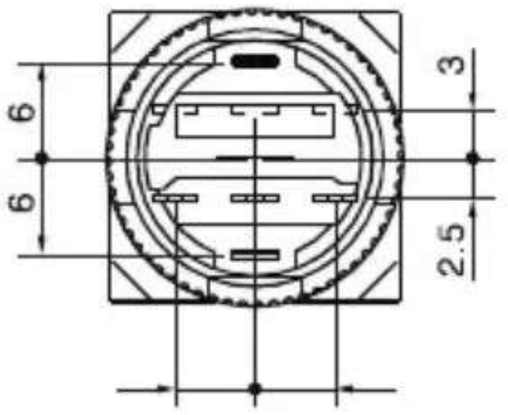
1NO1NC	Terminal arrangement
	
2NO2NC	Terminal arrangement
	

INSTALLATION DIMENSION



Categrog	A	B
Round	≥18mm	≥18mm
Square	≥18mm	≥18mm
Rectangular	≥18mm	≥24mm
Mushroom,emergency	≥24mm	≥24mm
Big emergency	≥30mm	≥30mm

BOTTOM VIEW



CHINA YIJIA INDUSTRIAL ELECTRICAL CO.,LTD.

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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 emergecy 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

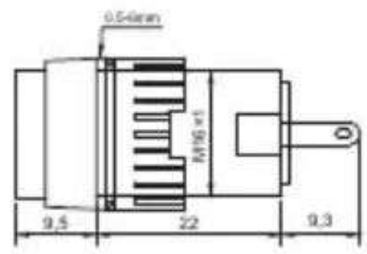
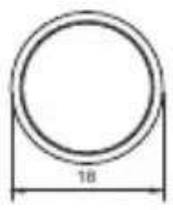
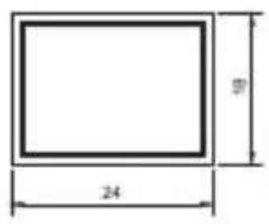
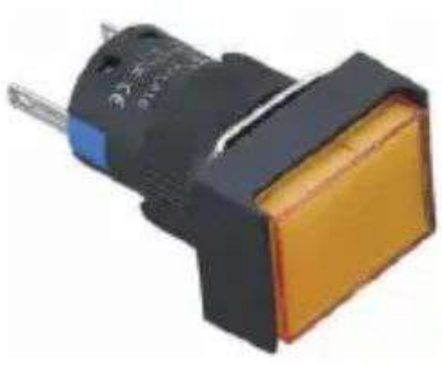
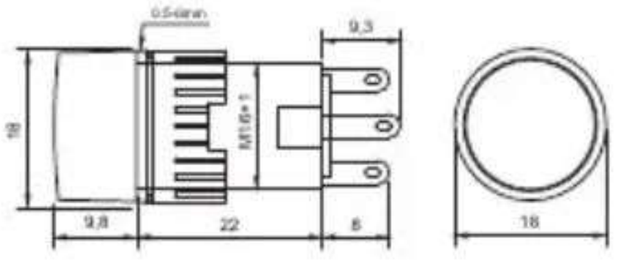
Note: the above table is only for model explanation, and some model combinations have no actual products. See the following figure for specific products.

PRODUCT SELECTION

⊙Contact 11:1NO1NC; 22:2NO2NC

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

○ Color R G Y B W BL

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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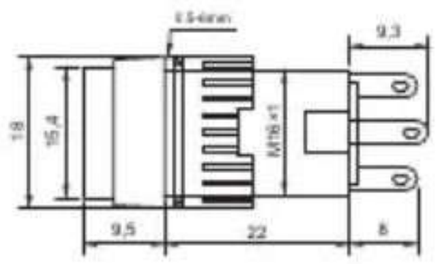
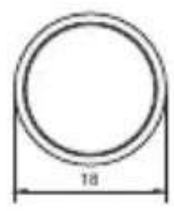
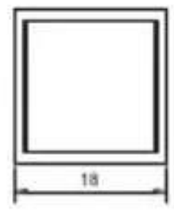
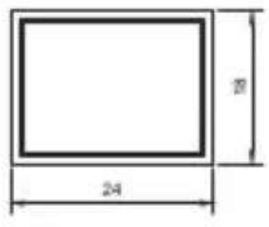
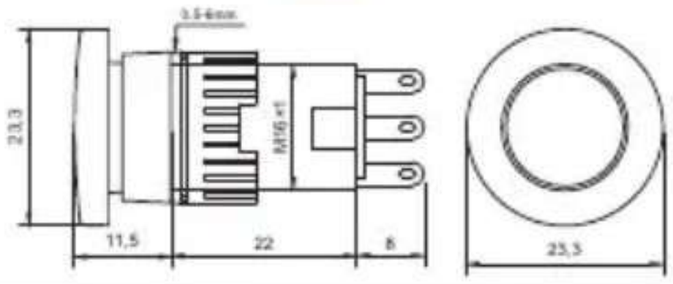
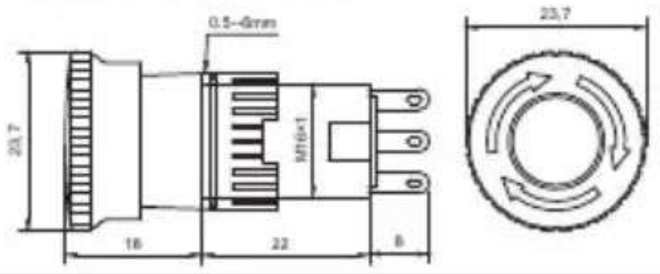
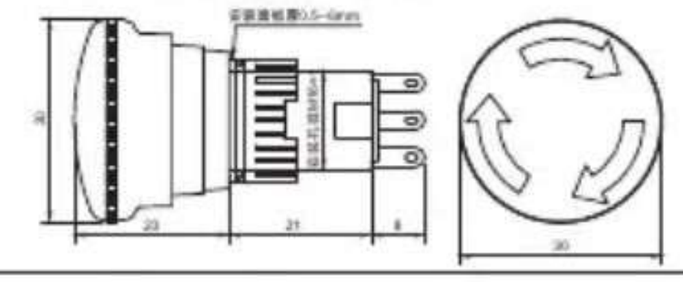
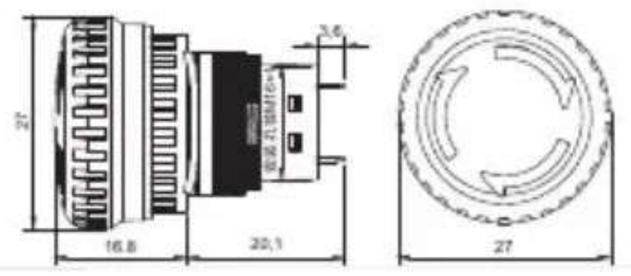
PRODUCT SELECTION

⊙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/F○	  
	Square maintained	YJ-LA16-⊙BNZS/F○	
	Square illuminated momentary	YJ-LA16-⊙DN/F△○	
	Square illuminated maintained	YJ-LA16-⊙DNZS/F△○	
	Rectangular momentary	YJ-LA16-⊙BN/J○	
	Rectangular maintained	YJ-LA16-⊙BNZS/J○	
	Rectangular illuminated momentary	YJ-LA16-⊙DN/J△○	
	Rectangular illuminated maintained	YJ-LA16-⊙DNZS/J△○	
	Mushroom momentary	YJ-LA16-⊙M○	· Selective Color○ : R G 
	Mushroom maintained	YJ-LA16-⊙MZS○	
	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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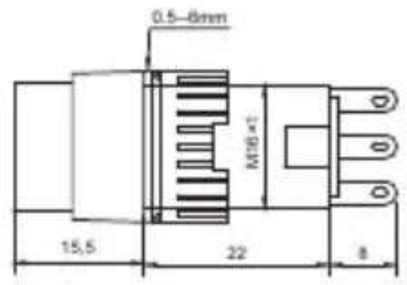
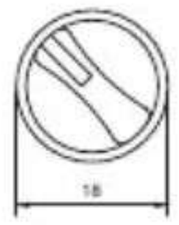
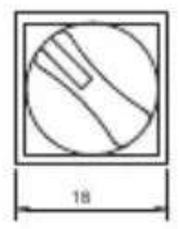
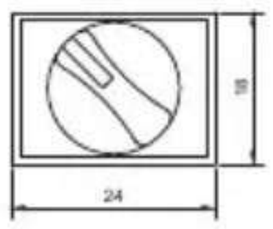
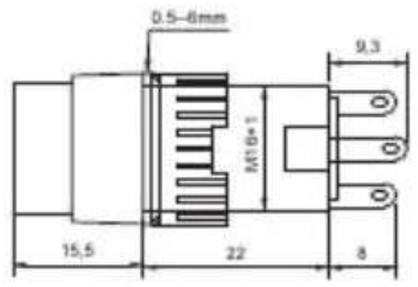
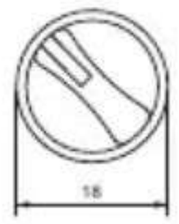
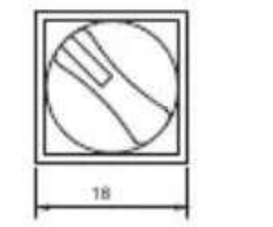
PRODUCT SELECTION

⊙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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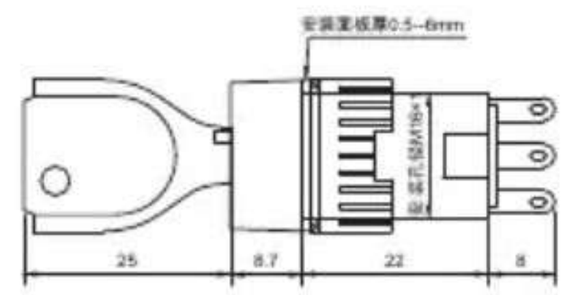
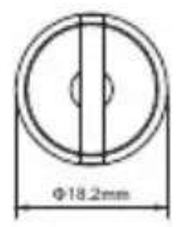
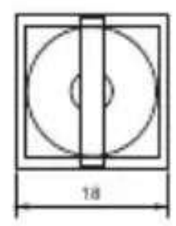
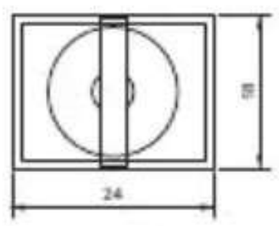
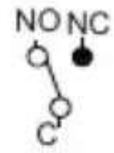
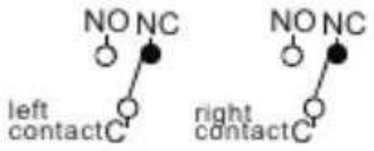
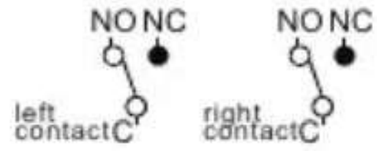
Picture	Operation	Model	Shape Dimensions
	Round 2 position key-lock selector switch	YJ-LA16-11Y/21/Y	·IP Degree : IP40 ·Provide 2 keys, each of which is common ·The key can be removed at every position    
	Round 2 position key-lock selector switch	YJ-LA16-22Y/21/Y	
	Round 3 position key-lock selector 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 L R	1NO1NC			
	2NO2NC			
45° three position L C R	2NO2NC	