

Button Switch $\Phi 16$

Quality as the root · Service as the base



YJ-F16 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/ 3NO3NC
- 5.IP degree:IP40,IP65
(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

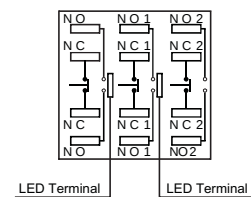
Operating temperature			-25℃~+55℃ (Ice free)
Operating humidity			45~85%RH
Contact resistance			≤ 30mΩ
Insulation resistance			≥ 100MΩ
Dielectric streagth	Between contact and lamp terminal		2000VAC/60s
	Between terminal of the same pole		1500VAC/60s
	Between terminal of the different pole		2000VAC/60s
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
Terminal			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°C/3s.
When soldering,soldering iron should not touch crust, and do not apply force on the terminal.

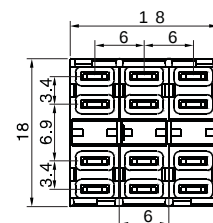
LAMP SPECIFICATIONS

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	$\geq 40000\text{h}$	

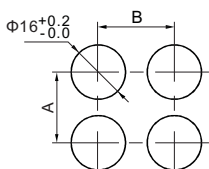
CONTACT TERMINAL ARRANGEMENT



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	$\geq 24\text{mm}$	$\geq 24\text{mm}$
Emergency	$\geq 41\text{mm}$	$\geq 41\text{mm}$

Button Switch Φ16

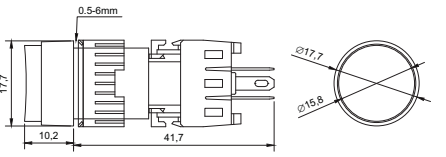
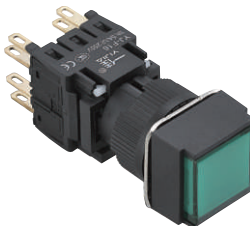
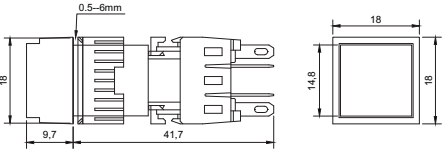
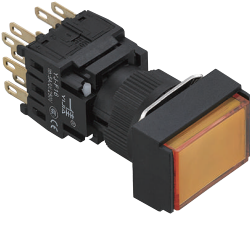
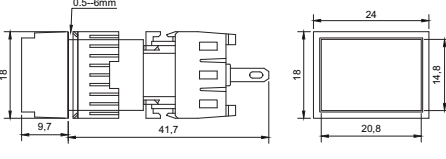
YJ-F16 Series Button Switch

IMPLICATION OF TYPE

YJ-F16	-■	⊙	▲	△	○
Code of series	The front shape: Y:round F:square J:rectangular	Contact: 11: 1NO1NC 22: 2NO2NC 33: 3NO3NC	Operating type: BN:Momentary BNZS:Maintained DN:Illuminated DNZS:Illuminated maintained M:Mushroom momentary MZS:Mushroom maintained ZS:Emergency button X/21:Two position selector maintained X/22:Two position selector momentary X/31:Three position selector maintained X/33:Three position selector momentary Y/21:Two position key-lock selector maintained Y/22:Two position key-lock selector momentary Y/31:Three position key-lock selector maintained Y/33:Three position key-lock selector momentary	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; 33:3NO3NC		△ 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-F16Y-⊙BN○	IP Degree:IP40 
	Round maintained	YJ-F16Y-⊙BNZS○	
	Round illuminated momentary	YJ-F16Y-⊙DN△○	
	Round illuminated maintained	YJ-F16Y-⊙DNZS△○	
	Square momentary	YJ-F16F-⊙BN○	IP Degree:IP40 
	Square maintained	YJ-F16F-⊙BNZS○	
	Square illuminated momentary	YJ-F16F-⊙DN△○	
	Square illuminated maintained	YJ-F16F-⊙DNZS△○	
	Rectangular momentary	YJ-F16J-⊙BN○	IP Degree:IP40 
	Rectangular maintained	YJ-F16J-⊙BNZS○	
	Rectangular illuminated momentary	YJ-F16J-⊙DN△○	
	Rectangular illuminated maintained	YJ-F16J-⊙DNZS△○	

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PRODUCT SELECTION

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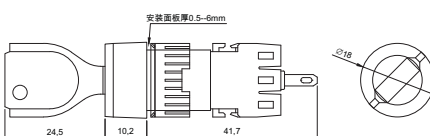
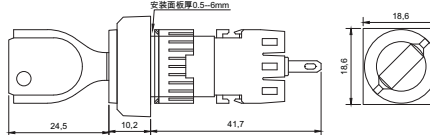
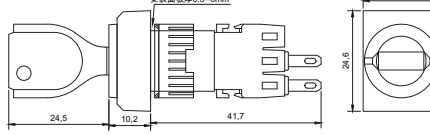
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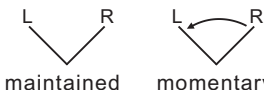
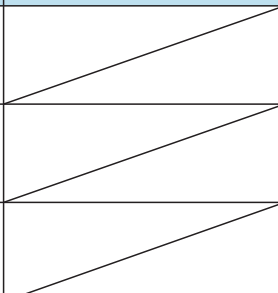
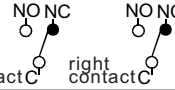
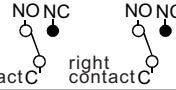
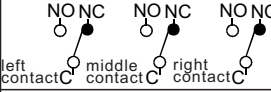
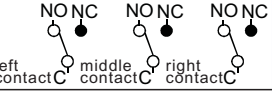
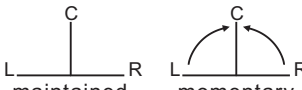
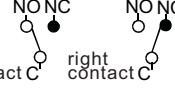
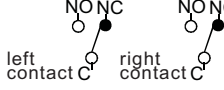
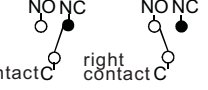


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⊙ Contact 11:1NO1NC; 22:2NO2NC; 33:3NO3NC △ LED voltage 3V 6V 12V 24V 36V 48V 110V 220V ○ Color R G Y B W BL			
Picture	Operation	Model	Shape Dimensions
	Round maintained 2 position key-lock selector	YJ-F16Y-⊙Y/21	·IP Degree : IP40 ·Provide 2 keys, each of which is common ·The key can be removed at every position 
	Round momentary 2 position key-lock selector	YJ-F16Y-⊙Y/22	
	Round maintained 3 position key-lock selector	YJ-F16Y-22Y/31	
	Round momentary 3 position key-lock selector	YJ-F16Y-22Y/33	
	Square maintained 2 position key-lock selector	YJ-F16F-⊙Y/21	
	Square momentary 2 position key-lock selector	YJ-F16F-⊙Y/22	
	Square maintained 3 position key-lock selector	YJ-F16F-22Y/31	
	Square momentary 3 position key-lock selector	YJ-F16F-22Y/33	
	Rectangular maintained 2 position key-lock selector	YJ-F16J-⊙Y/21	
	Rectangular momentary 2 position key-lock selector	YJ-F16J-⊙Y/22	
	Rectangular maintained 3 position key-lock selector	YJ-F16J-22Y/31	
	Rectangular momentary 3 position key-lock selector	YJ-F16J-22Y/33	

WORKING POSITION AND CORRESPONDING CONTACT STATE OF SELECTOR SWITCH

Position	Contact	Contact state of each position		
		Left	Middle	Right
90° two position 	1NO1NC			
	2NO2NC	 left contactC right contactC		 left contactC right contactC
	3NO3NC	 left contactC middle contactC right contactC		 left contactC middle contactC right contactC
90° three position 	2NO2NC	 left contactC right contactC	 left contactC right contactC	 left contactC right contactC