

# Button Switch $\Phi 16$

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## 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				

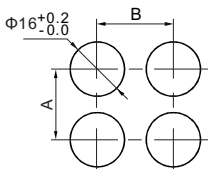
Minimum adaptive load: 3V AC/DC 5mA (reference value) (The scope of usage depends on the usage environment and load type)

### SPECIFICATION

Operating temperature		-25°C~+55°C (Ice free)	
Operating humidity		45~85%RH	
Contact resistance		$\leq 30m\Omega$	
Insulation resistance		$\geq 100M\Omega$	
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		$> 10g$	
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.

### INSTALLATION DIMENSION

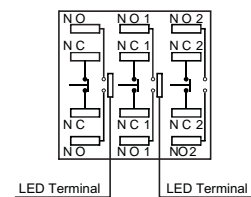


Categrog	A	B
Round	$\geq 18$ mm	$\geq 18$ mm
Square	$\geq 18$ mm	$\geq 18$ mm
Rectangular	$\geq 18$ mm	$\geq 24$ mm
Mushroom, emergency	$\geq 24$ mm	$\geq 24$ mm
Emergency	$\geq 41$ mm	$\geq 41$ mm

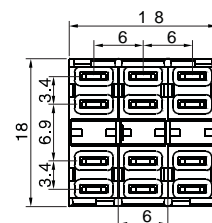
### LAMP SPECIFICATIONS

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	$\geq 40000$ h	

### CONTACT TERMINAL ARRANGEMENT



### BOTTOM VIEW



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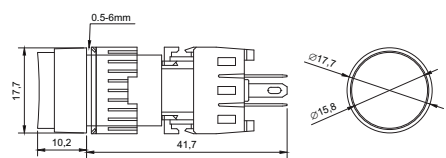
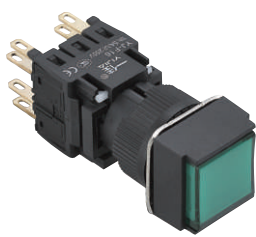
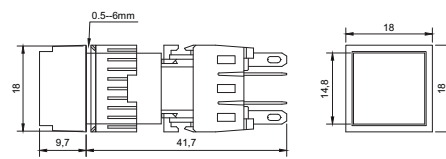
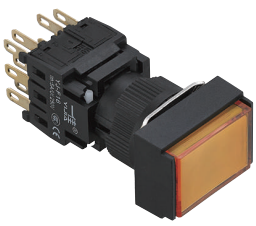
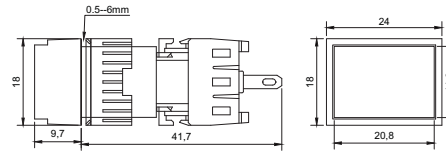
## YJ-F16 Series Button Switch

### 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

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△○	


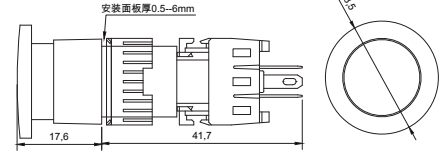
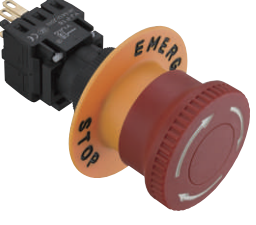
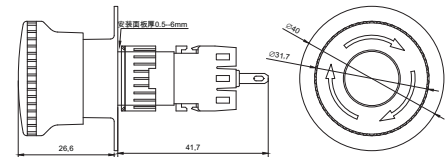

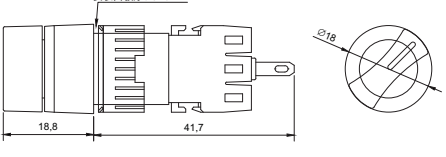

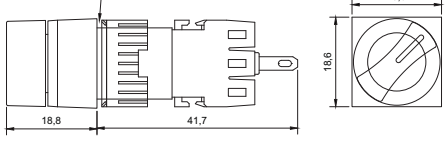

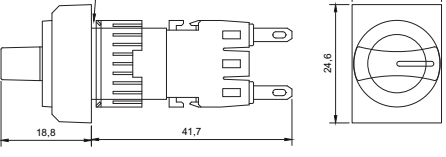
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### PRODUCT SELECTION

Picture	Operation	Model	Shape Dimensions
	Mushroom momentary	YJ-F16- $\odot$ MO	· IP Degree:IP40 · Selective Color $\odot$ : <b>R G</b> 
	Mushroom maintained	YJ-F16- $\odot$ MZSO	
	Emergency push button	YJ-F16- $\odot$ ZS	· IP Degree:IP54 
	Round maintained 2 position selector switch	YJ-F16Y- $\odot$ X/21	· IP Degree : IP54 · IP65 need customization 
	Round momentary 2 position selector switch	YJ-F16Y- $\odot$ X/22	
	Round maintained 3 position selector switch	YJ-F16Y-22X/31	
	Round momentary 3 position selector switch	YJ-F16Y-22X/33	
	Square maintained 2 position selector switch	YJ-F16F- $\odot$ X/21	· IP Degree : IP54 · IP65 need customization 
	Square momentary 2 position selector switch	YJ-F16F- $\odot$ X/22	
	Square maintained 3 position selector switch	YJ-F16F-22X/31	
	Square momentary 3 position selector switch	YJ-F16F-22X/33	
	Rectangular maintained 2 position selector switch	YJ-F16J- $\odot$ X/21	· IP Degree : IP54 · IP65 need customization 
	Rectangular momentary 2 position selector switch	YJ-F16J- $\odot$ X/22	
	Rectangular maintained 3 position selector switch	YJ-F16J-22X/31	
	Rectangular momentary 3 position selector switch	YJ-F16J-22X/33	

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## YJ-F16 Series Button Switch

### PRODUCT SELECTION

Contact 11:1NO1NC; 22:2NO2NC; 33:3NO3NC	LED voltage 3V 6V 12V 24V 36V 48V 110V 220V	Color <b>R</b> <b>G</b> <b>Y</b> <b>B</b> <b>W</b> <b>BL</b>	
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			
	3NO3NC			
90° three position  	2NO2NC			