

# Datasheet

Item no. 718129/ 718141/ 718153/ 718165/ 718178/ 718153/  
718165/ 718178

V1\_0717\_01\_en

## Pushbutton Switches

### Characteristic

#### Specs

Having three head shape: round ( $\Phi$  18mm), square (18 × 18mm) and rectangular (18 × 24mm), containing pilot lamps, pushbuttons, illuminated push buttons, selector switches, key-lock switches, buzzer and emergency switches. The normal diameter of the installation hole is  $\Phi$  16mm, and some type can be installed in  $\Phi$  22mm hole easily with the diameter changing circle.

#### Functions

The product has stable property, small contact resistance, strong insulation resistance, anti-vibration and so on. It meets to standards of IEC60947-5-1, GB14048.5 etc.

#### Structure

The switch have the advantage of fast-break and self-cleaning, and each of them contains 1NO and 1NC terminal. Every pushbutton also can possess from one to two switch units.

#### Protective Degree

Its protective degree is IP40, IP65, some of type can reach IP67 with the seal cover.

### Lamp Ratings

Lamp Type	AC LED Lamp (Standard)			Neon Lamp		
	AC/DC6V	AC/DC12V	AC/DC24V	AC110V	AC230V	
Rated Voltage	AC/DC110V		AC/DC230V			
Cover Color:	R	G	Y	O	B	W
Life	About 40,000 hours			About 20,000 hours		

Note: the lamp contains a current-limiting resistor inside and doesn't need external connection.

DC LED lamp, dual-color LED lamp and other voltages can be customized.

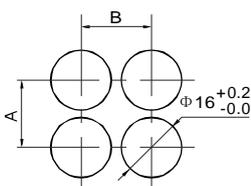
### Switch Ratings

Thermal Current I <sub>th</sub>		5A		
Rated Voltage		24V	125V (110V)	250V (230V)
Direct Current		1A	0.2A	0.1A
Alternating Current	P.F=1		5A	3A
	P.F=0.7		3A	2A

### Specifications

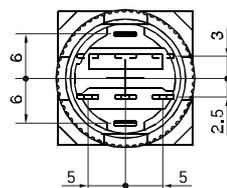
Operating Temperature		-25°C ~ +55°C (no freezing)	
Operating Humidity		45 ~ 85%RH (no condensation)	
Contact Material		- silver - silver alloy - gold-clad silver, cladding thickness is 3 μm	
Contact Resistance		≤ 50MΩ	
Insulation Resistance		≥ 100MΩ	
Dielectric strength	Between contact and lamp terminals:	2000V, AC 50Hz, 1 min	
	Between terminal of the same pole:	1000V, AC 50Hz, 1 min	
	Between terminal of different pole:	2000V, AC 50Hz, 1 min	
Vibration Resistance		50Hz, Amplitude 1.2mm p-p	
Shock Resistance		≥ 10g	
Life	Mechanical	Momentary Type	1,000,000 times
		Alternate and Selector Type	500,000 times
		Key-lock and Emergency Type	200,000 times
	Electrical	≥ 50,000 times	
Terminal		Diameter of welded wire: 2 × 0.8mm Area of copper wire: 0.75 mm <sup>2</sup> max Connecting link: 2.8 × 0.5mm	
Solder Heat Resistance		230°C (no more than 3 second)	
Operating Travel		(Pushbuttons) about 3mm	

### Installation Dimensions

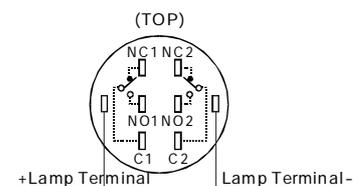


Category	A	B
Round	≥ 18mm	≥ 18mm
Square	≥ 18mm	≥ 18mm
Rectangular	≥ 18mm	≥ 24mm
Mushroom	≥ 24mm	≥ 24mm
Big square	≥ 24mm	≥ 24mm
Big rectangular	≥ 18mm	≥ 24mm

### Bottom View



### Terminal Arrangement



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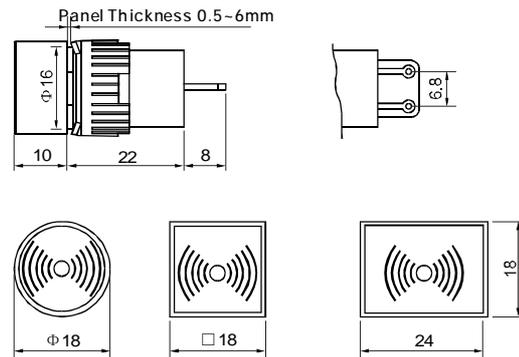
## Pushbutton Switches

### Buzzer Units

#### Specifications

Operating Temperature	- 25°C ~ 55°C
Operating Humidity	45 - 85%RH
Dielectric Strength	1000V
Sound Duration	Continuous, Discontinuous
Rated Sound Pressure & Frequency	75 dB(1m)(Rated Voltage) 2300 ± 300Hz
Operating Voltage	6VDC;12VDC;24VDC; 110VAC;230VAC
Rated Operating Current:	≤28 mA

#### Shape and Dimensions



#### Product Cutline

Type Number	718129 718141	718153 718165 718178
Shape		

718129 : Round Buzzer, 24V/DC, 6.65g (included rubber ring),  $\Phi 18.5 \times 40.4$  mm,  $\Phi 15.5$ mm (at the screw thread), 22 mA (at DC24V), IP40

718141 : Round Buzzer, 230V/AC, 8 g, 18.4 x 40.9 mm,  $\Phi 15.8$  mm (at the screw thread), 23.2 mA (at AC 230V), continuous buzzer, IP40

718153 : Square Buzzer, 12V/DC, 6.85g (included rubber ring), 39.66 x 18.5 x 18.5 mm,  $\Phi 15.5$ mm (at the screw thread), 30 mA (at DC12V)

718165 : Square Buzzer, 24V/DC, 6.9g (included rubber ring), 39.8 x 18.4 x 18.4 mm,  $\Phi 15.5$ mm (at the screw thread), 27 mA (at DC24V)

718178 : Square Buzzer, 230V/AC, 8.2 g, 18.2 x 18.7 x 40.6 mm,  $\Phi 15.7$  mm (at the screw thread), 22.4 mA (at AC 230V), continuous buzzer, IP40

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