



SHANGHAI YONGXING ELECTRONIC SWITCH CO., LTD.



SHANGHAI YONGXING ELECTRONIC

上海永星电子

## 上海永星电子开关有限公司

SHANGHAI YONGXING ELECTRONIC SWITCH CO., LTD.

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(2012)版

如技术参数变动，恕不另行通知



AD 系列按钮开关指示灯 ..... 01-08

AD Series Pushbutton switches

AJ/AT 系列紧停开关 ..... 09

AJ/AT Series Pushbutton switches

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AX16 Series Rotary Switches

AY16 系列钥匙开关 ..... 14-15

AY16 Series Keylock Switch

UZ16 系列蜂鸣器 ..... 16

UZ16 Series Buzzers

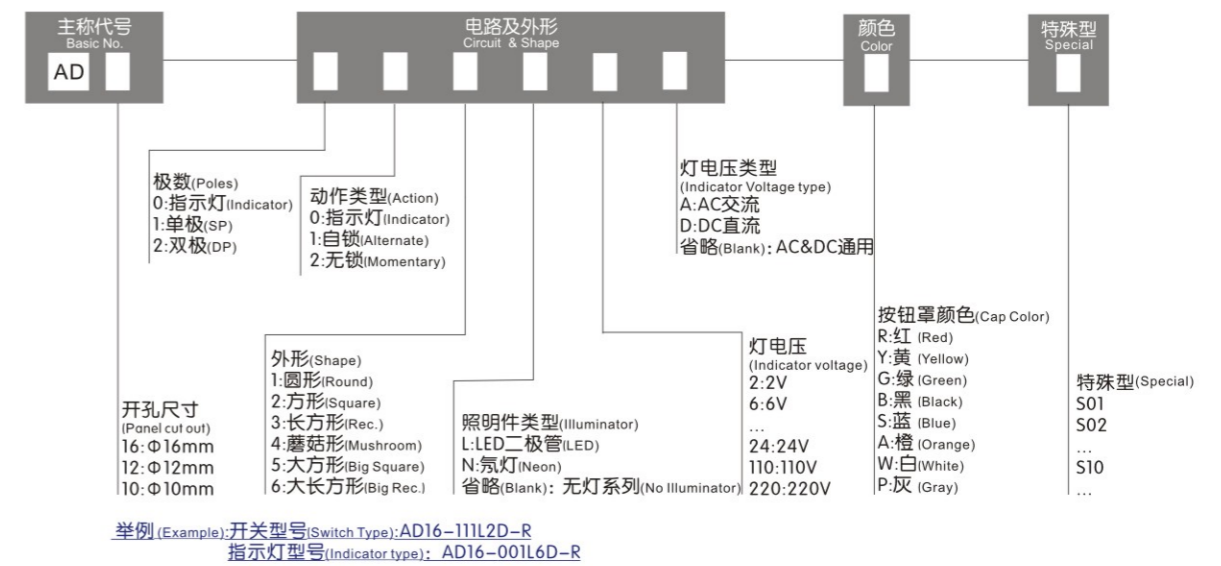
注意事项 ..... 17

CAUTION



技术性能参数 SPECIFICATION	
电气额定值 (阻性负载) Max. Rating Current & Voltage(Resistive Load)	3A 250V AC
接触电阻 (初始值) Contact Resistance	≤50mΩ
绝缘电阻 (常态) Insulation Resistance	≥100MΩ
耐压 (常态) Dielectric Strength	1,500V
电气寿命 (次) Electronic Life(cycles)	无锁:50,000 自锁:25,000 Momentary:50,000 Alternate:25,000
机械寿命 (次) Mechanical Life(cycles)	无锁:200,000 自锁:50,000 Momentary:200,000 Alternate:50,000
工作环境温度 Operating temperature	-5℃~+75℃
防护等级 IP code	IP40

## 型号命名规则 HOW TO ORDER



## 照明性能指标 Lighting pieces of performance indicators

### ■ 电子发光二极管 (LED)

工作电压 Operating voltage	2V	6V	12V	24V	110V	220V	寿命 Life	等效电路 Equivalent circuit
工作电流 Current	小于15mA Less than 15mA			小于5mA Less than 5mA		约5万小时但亮度会随使用时间加长而衰减 About 50,000 hours (but the brightness will be weaken as the life of using plus.)		
LED颜色 LED color	红 绿 黄 橙 蓝 Red Green Blue Yellow Orange							
按钮罩颜色 Cap Color	红 绿 黄 橙 蓝 黑 白 灰 Red Green Blue Yellow Orange Black White Gray							

### ■ 霓虹灯管 (Neon)

工作电压 Operating voltage	110V AC	220V AC
工作电流 Current	小于1mA Less than 1mA	小于1mA Less than 1mA
霓虹灯颜色 Neon color	红 绿 Red Green	
按钮罩颜色 Cap Color	红 绿 Red Green	

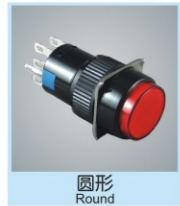




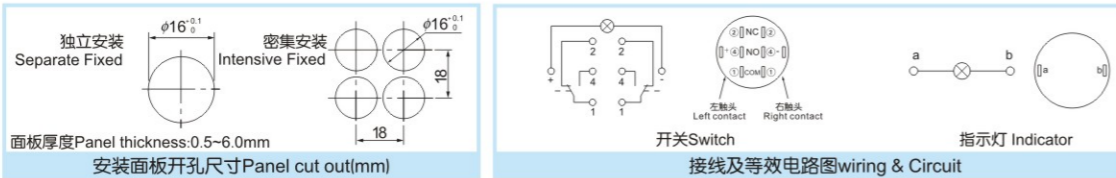
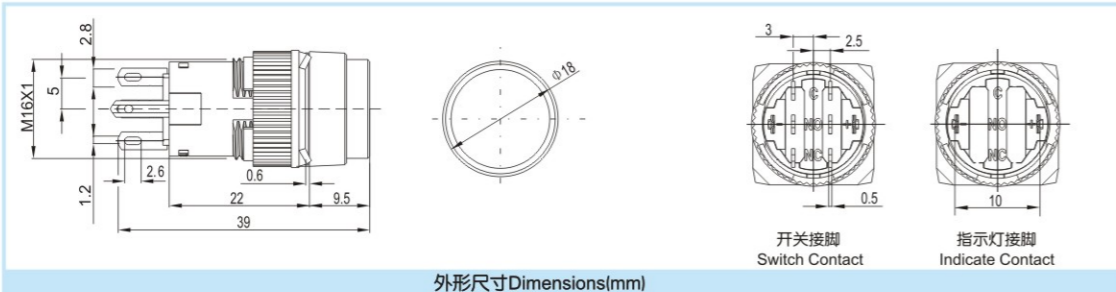
# AD 系列按钮开关指示灯

## AD Series Pushbutton switches

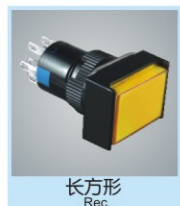
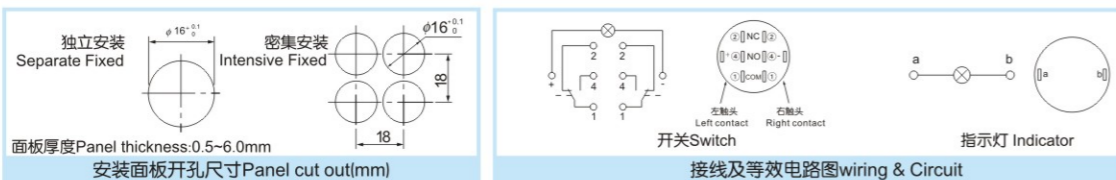
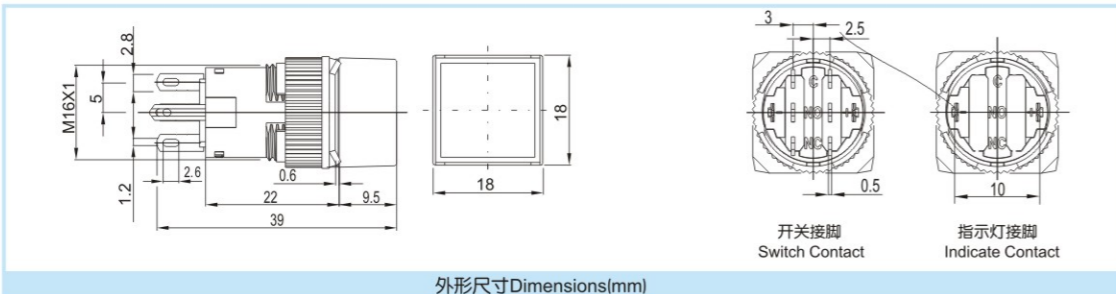
### Φ16外形及尺寸图Overall & Dimensions(mm)



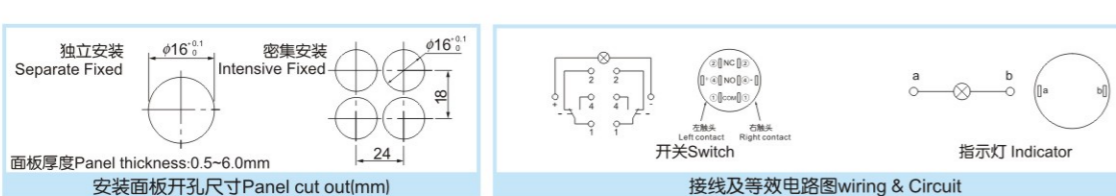
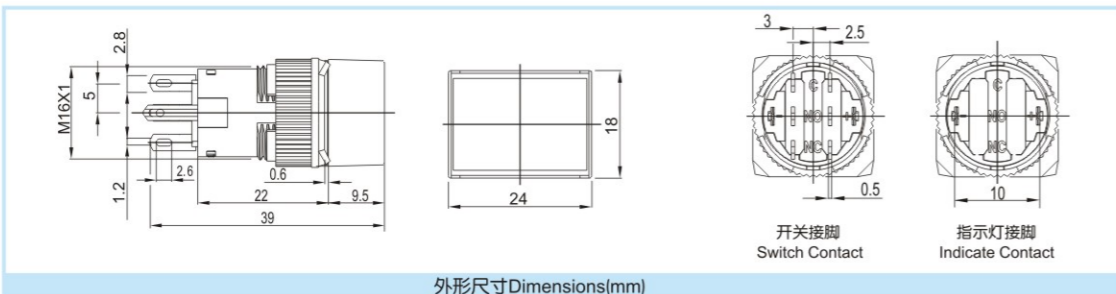
圆形  
Round



方形  
Square



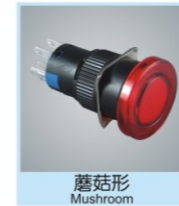
长方形  
Rec.



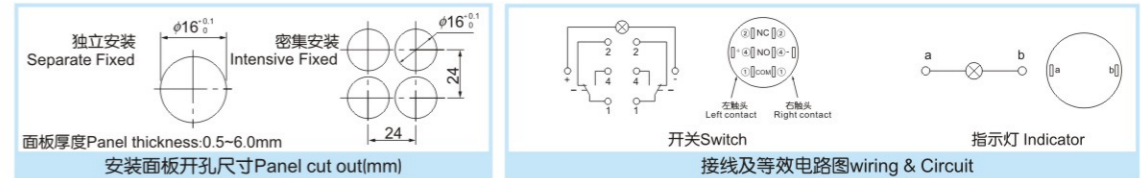
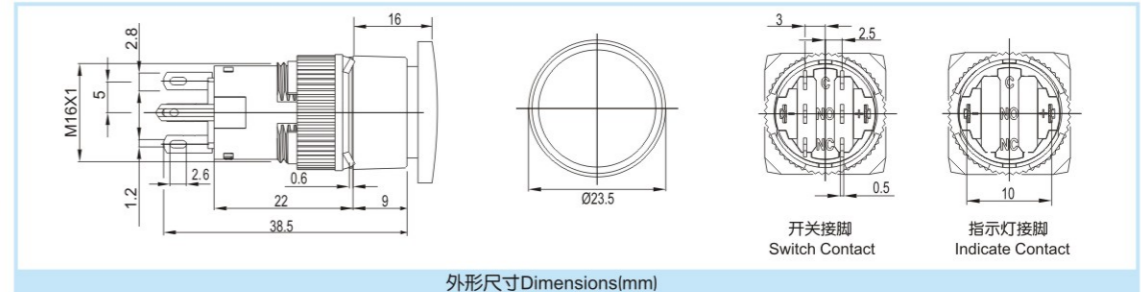
# AD 系列按钮开关指示灯

## AD Series Pushbutton switches

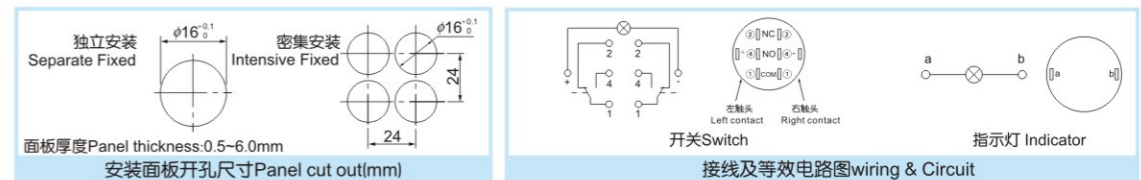
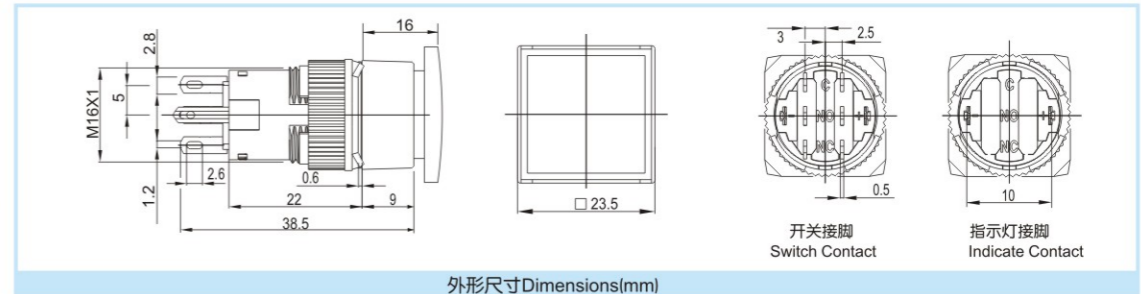
### Φ16外形及尺寸图Overall & Dimensions(mm)



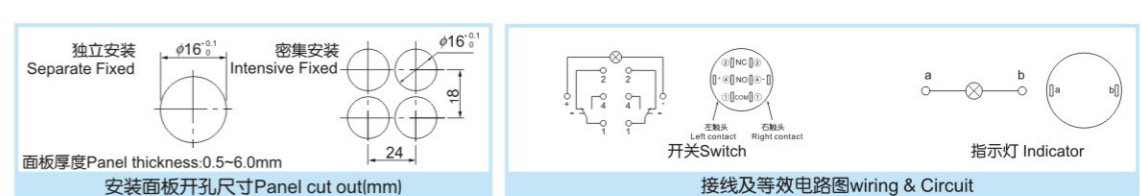
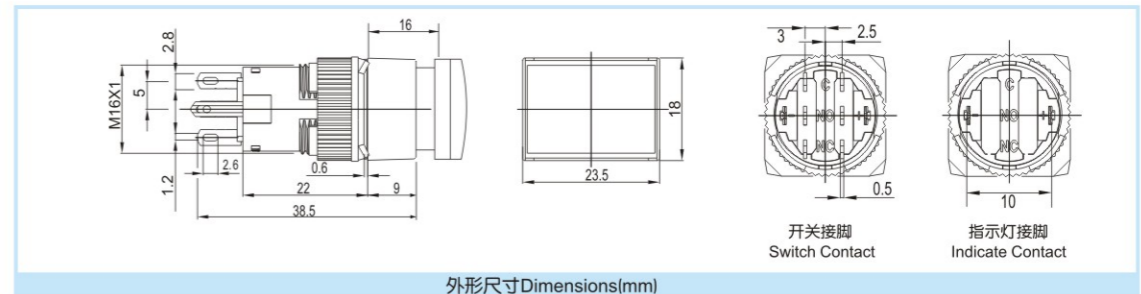
蘑菇形  
Mushroom



大方形  
Big Square



大长方形  
Big Rec.

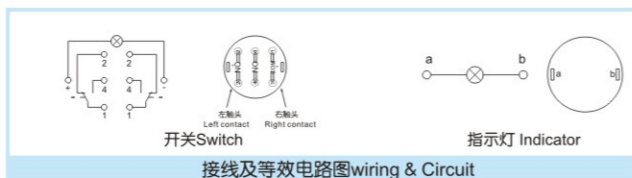
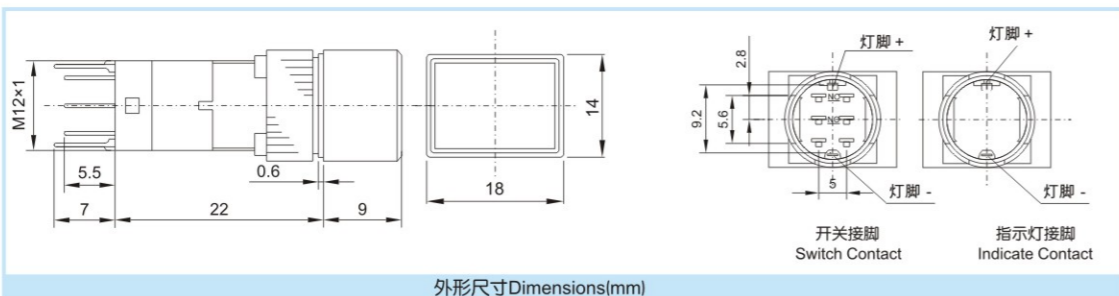
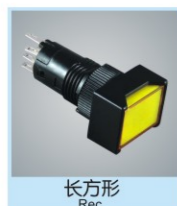
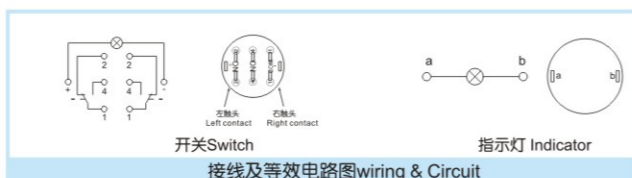
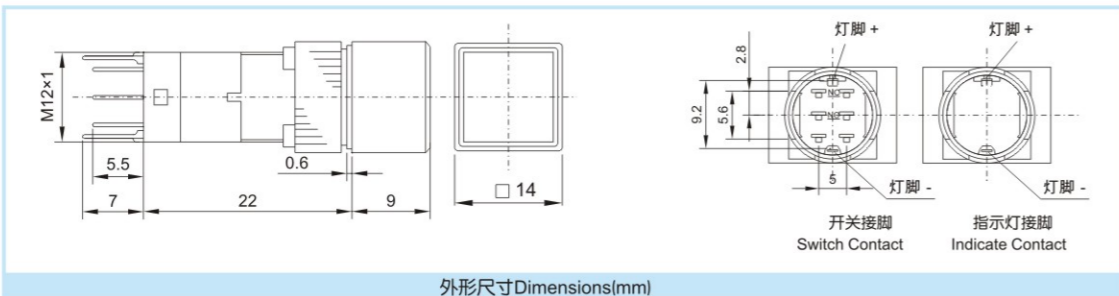
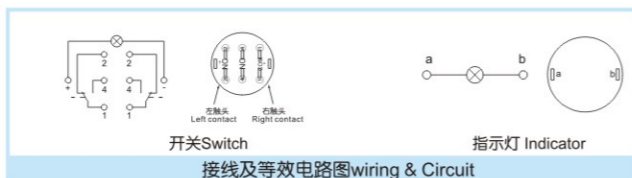
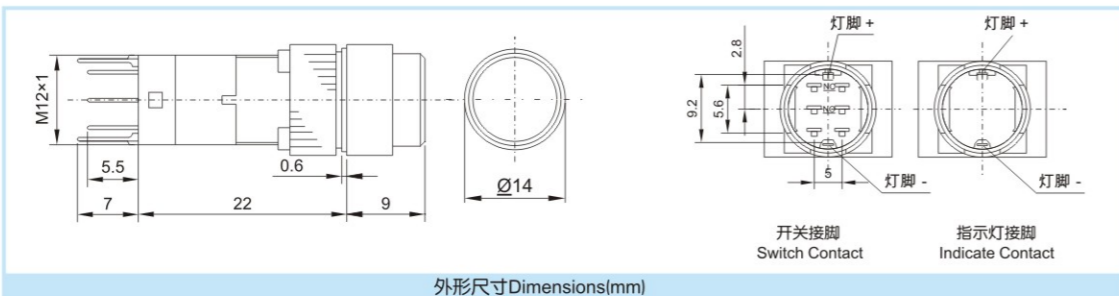




# AD 系列按钮开关指示灯

## AD Series Pushbutton switches

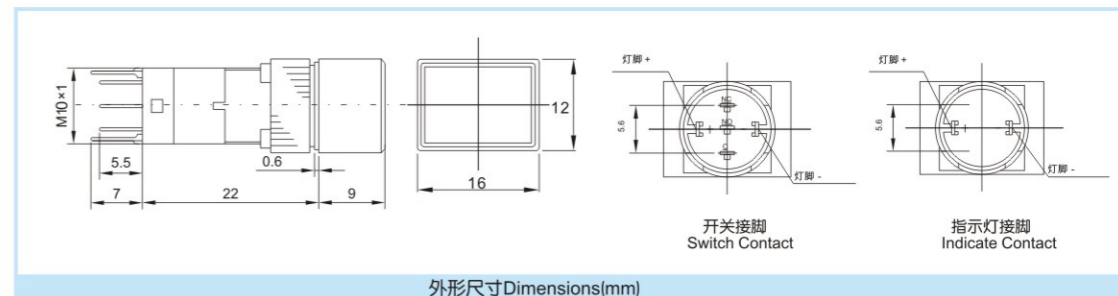
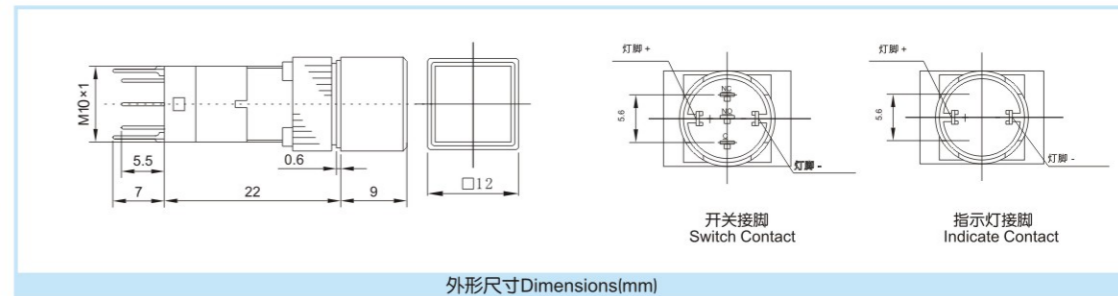
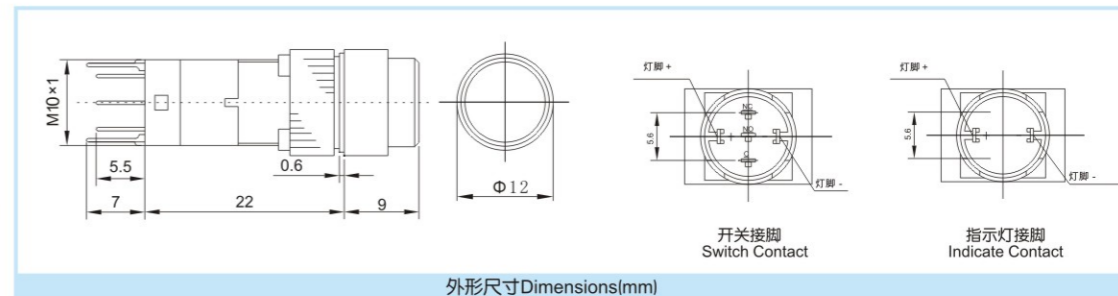
### Φ12外形及尺寸图Overall & Dimensions(mm)



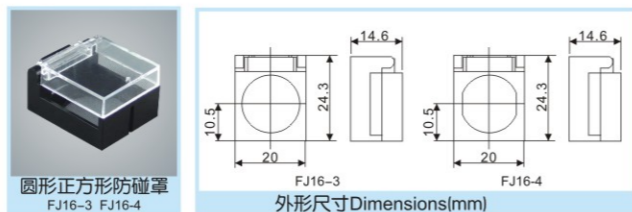
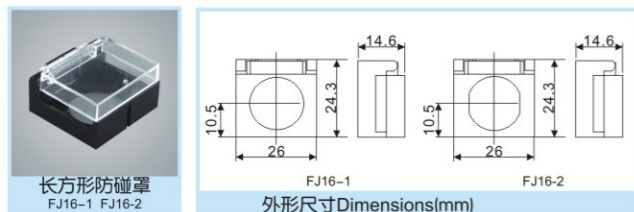
# AD 系列按钮开关指示灯

## AD Series Pushbutton switches

### Φ10外形及尺寸图Overall & Dimensions(mm)



### Φ 16 附件 Attachment



### 使用说明及注意事项 –Note and using Method–

#### ■ 灯泡的更换 Method of replacing lamp

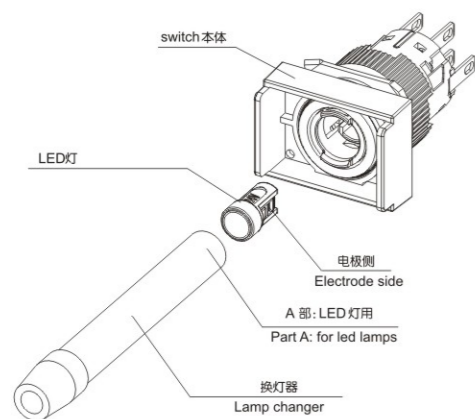
- 将换灯器套在LED灯上，往外拔出灯泡。安装时，将LED灯的电极侧对准本体的灯泡端子侧，并用手或者换灯器的前端将其轻轻固定后插入即可。
- To remove the LED lamp, insert the lamp change in the LED lamp and pull out the LED lamp. To mount the LED lamp, align the lamp terminal side of the main unit with the electrode side of the LED lamp, lightly hold the lamp by hand or with the head of the lamp changer, and insert the lamp. The LED lamp has no polarity, so it can be powered by either AC or DC

#### ● LED灯的使用注意事项

发光颜色为绿色、蓝色的产品对静电非常敏感，使用时须特别小心谨慎，并请采取周全的防静电措施和防冲击电流措施。推荐采用下述防静电措施。

#### ● Handling of LEDs

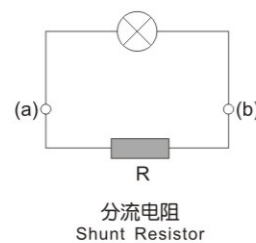
LED whose luminous color is green or blue is sensitive to static electricity. Be careful when handling the LED. Take thorough measures against static electricity and surges when handling the product. The following anti-electrostatic measure is recommended. Use a wristband or anti-electrostatic glove when replacing LED lamps.



#### ■ LED

##### ● LED的误点亮

LED灯配备了防误点亮电路，与旧产品相比，抗误点亮性能较强。当并非完全可靠。LED灯只需微弱的电流(约0.25mA)便可点亮，由于电涌吸收电路及无触头电路产生的漏电流，或电缆间的分布电容等均可能导致误点亮。此时，需要采取安装与LED灯并联的电阻等措施。



##### ● 解决误亮灯的措施

在LED灯端子间并联分流电阻R能防止误亮灯。但电阻值应根据产品种类及使用条件而定。

#### ■ 接线 Wiring

- 焊接作业应注意下述几点。
- 焊料的种类：应使用松香芯焊锡丝
- 焊接作业请使用30W以下(350℃)的电烙铁，并在5秒钟内完成。并且，进行焊接作业时，应注意勿使端子承受张力。也勿使端子变形。
- 无铅焊料的熔点稍高，有时不易焊接。这时，请使用头部较大或者热量较大的电烙铁。
- 可连接的电线
 

单芯线	最大 φ	0.8	2根	} 焊接
绞合线	最大	0.75mm <sup>2</sup>	1根	
- 关于接头的使用
  - 使用同一接头的NO、NC接头时，应避免与不同电位以及异种电源的连接。
- 使用相邻的端子时，为了防止短路等事故，应使用绝缘套管以确保绝缘。当焊接端子处连接较粗电线、焊料比较多时，更需注意。

#### ● Wiring to tab terminal

Use 110 (2.8mm) series receptacles for tab terminals.

#### ● Pay attention to the following points when soldering.

Type of solder: Use resin-core solder.  
Use a soldering iron with a maximum power consumption of 30W (300 °C) within five seconds. Make sure that the terminal is free of tension during soldering. Also, do not deform the terminal.

#### ● The melting point of lead-free solder is slightly high, which may make soldering difficult. Use a soldering iron that has a large soldering tip or high heat generation.

#### ● Connectable wires

Two solid wires with a maximum diameter of 0.8 mm (solder) One stranded wire with a maximum area of 0.75 mm<sup>2</sup> (solder) Flat-type connection terminal (2.8 -1.25-5) 0.5 to 1.25mm<sup>2</sup> (2.8 -0.5-5) 0.2 to 0.5mm<sup>2</sup>

#### ● Use of contact blocks

When using NO and NC contacts in the same contact block, avoid connection that involves opposite polarity or wiring from different types of power supply.

#### ● For wiring to adjacent terminals, use the terminal cover to prevent short-circuit, or an insulation tube to assure isolation. For solder terminals, caution is required if thick wires, in particular, are connected or a large quantity of solder is used.

#### ● LED lamp malfunctioning (incorrect lighting)

The LED lamp incorporates a circuit to prevent malfunctioning. Compared with conventional models, this LED lamp is less likely to malfunction, but it incorporates no absolute countermeasures. A minute current (approximately 0.25 mA) turns on the LED lamp. A leakage current from the surge absorption circuit or noncontact circuit, or stray capacitance between cables, may also turn on the LED lamp. In this case, a countermeasure (e.g., attaching a resistor in parallel with the LED lamp) is required.

#### ● Countermeasure against malfunctioning

Malfunctioning can be prevented by connecting a shunt resistor R in parallel. The resistance in that case varies with the model and operating conditions.



### 使用说明及注意事项 –Note and using Method–

- 额定工作电压的范围，6V的产品为±5%·12V、24V的产品为±10%。并且，常常时在+5%或者+10%的条件下使用时，选择的外部电阻值应保证所流过的电流小于额定电流，并将其与LED灯串联连接。
- The permissible fluctuation range for the operating voltage of the 6V model is ±5% and that for the 12V or 24V model is ±10%. If the operating voltage is always 5% or 10% higher, select a resistor that will make the operating current the same as or lower than the rated current, and connect the resistor in series to the LED lamp.

#### ● 外部电阻值的计算

(例)24V的LED(发光颜色：红色)连接在48V的电路中时……

$$\text{外部电阻} [\Omega] = \frac{\text{电路电压} [V] - \text{额定电压} [V]}{\text{额定电流} [A]}$$

$$= \frac{48 - 24}{3 \times 10^{-3}} = 8000[\Omega]$$

⇒ 因此，应使用8kΩ1W的电阻。(电阻器容量的选择应留有充分的裕量。)

#### ● Calculation of external resistance

Example: Connecting a 24V red LED to a 48V circuit

$$\text{External resistance} [\Omega] = \frac{\text{Circuit voltage} [V] - \text{Rated voltage} [V]}{\text{Rated current} [A]}$$

$$= \frac{48-24}{3 \times 10^{-3}} = 8000[\Omega]$$

⇒ Therefore, use an external resistor of 8kΩ 1W. (Select a resistor with sufficient wattage.)

#### ● 关于电涌

高亮度LED灯使用了对静电很敏感的元件，电涌等产生的异常电压有时可能会导致不亮灯，敬请注意。

#### ● Surges

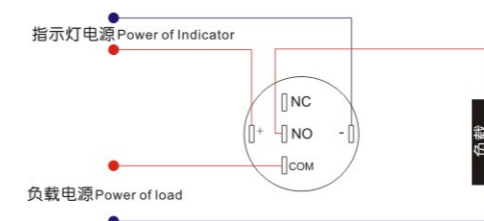
High-brightness LED products use elements that are sensitive to static electricity. Keep in mind that an unusual voltage, such as a surge voltage, may cause the product to malfunction.

### 电路接线方法 (示例) Circuit wiring (examples)

#### ● 常开线路接线 Normally Open Circuit wiring

实现功能：开关指示灯常亮，开关动作时负载工作。开关控制单条线路。指示灯电压与负载电压不同。

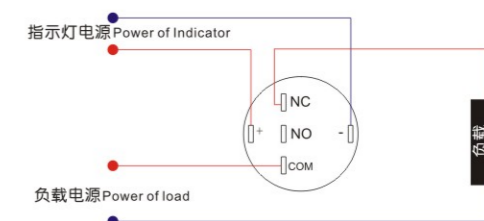
Feature implementation : switch light is always bright, it is operating with load when the switch acted. The switch control the single circuit The voltage of the indicator is different from the load voltage.



#### ● 常闭线路接线 Normally Close Circuit wiring

实现功能：开关指示灯常亮，开关动作时负载停止工作。开关控制单条线路。指示灯电压与负载电压不同。

Feature implementation : switch light is always bright, the load stop when the switch acted. The switch control the single circuit The voltage of the indicator is different from the load voltage.



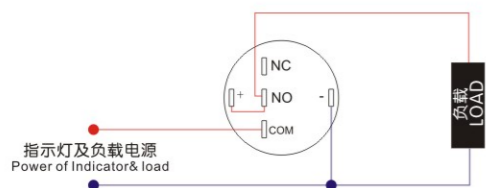


## AD 系列按钮开关指示灯 AD Series Pushbutton switches

### ●常开线路接线 Normally Open Circuit wiring

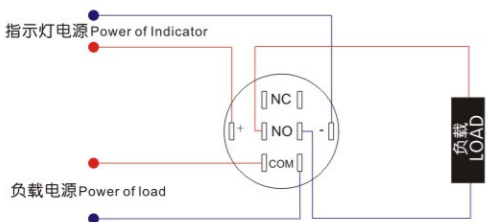
实现功能：开关动作时候负载工作并且指示灯点亮,开关控制单条线路，条件是负载电源和指示灯电源电压相同。

Feature implementation : it is operating with load and the indicator is brighting when the switch acts.The switch control the single circuit, on the condition that the voltage of load and indicator power is the same.



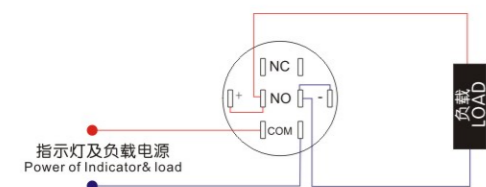
实现功能：开关指示灯常亮，开关动作时候负载工作。开关控制两条线路。指示灯电压与负载电压不同。

Feature implementation : switch light is always bright,it is operating with load when the switch acted. The switch control the two circuit. The voltage of the indicator is different from the load voltage.



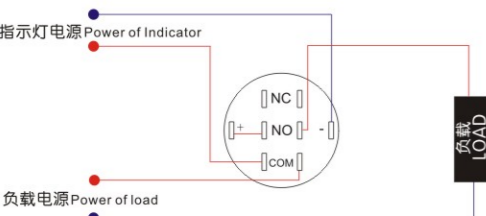
实现功能：开关动作时候负载工作并且指示灯点亮，开关控制两条线路，条件是负载电源和指示灯电源电压相同。

Feature implementation : it is operating with load and the indicator is brighting when the switch acts.The switch control the two circuit, on the condition that the voltage of load and indicator power is the same.



实现功能：开关动作时候负载工作并且开关指示灯点亮。开关控制两条线路。其中一路控制负载电路，一路控制指示灯电路指示灯电压与负载电压不同。

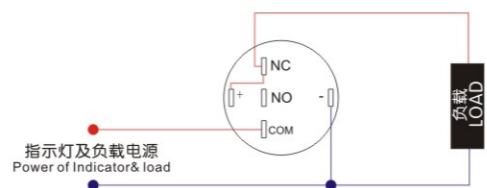
Feature implementation : it is operating with load and the indicator is brighting when the switch acts. The switch control the two circuit ,one controls the load crcuit,the other controls the indicator.the voltage of indicator is different from the load's



### ●常闭线路接线 Normally Close Circuit wiring

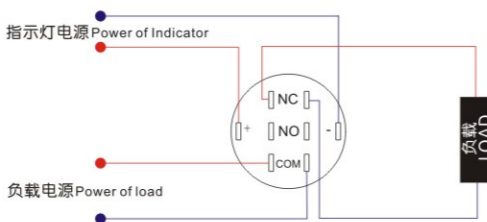
实现功能：开关动作时候负载停止工作并且指示灯灭，开关控制单条线路，条件是负载电源和指示灯电源电压相同。

Feature implementation:The load stops and the indicator turns off when the switch acting.The switch control the single circuit, on the condition that the voltage of load and indicator power is the same.



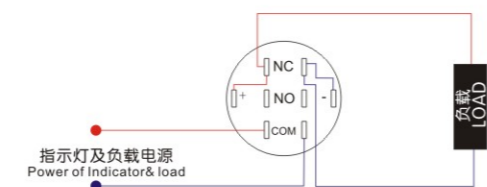
实现功能：开关指示灯常亮，开关动作时候负载停止工作。开关控制两条线路。指示灯电压与负载电压不同。

Feature implementation : switch light is always bright,The loadstps and the indicator turns off when the switch acting. The switch control the two circuit . The voltage of the indicator is different from the load voltage.



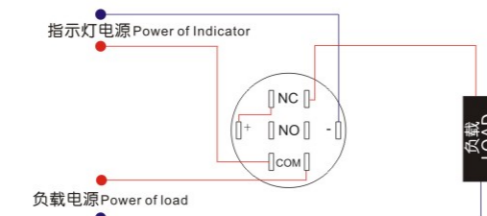
实现功能：开关动作时候负载停止工作并且指示灯灭,开关控制两条线路，条件是负载电源和指示灯电源电压相同。

Feature implementation : The load stops and the indicator turns off when the switch acting.The switch control the two circuit ,on the condition that the voltage of load and indicator power is the same.



实现功能：开关动作时候负载停止工作并且开关指示灯灭。开关控制两条线路。其中一路控制负载电路，一路控制指示灯电路。指示灯电压与负载电压不同。

Feature implementation : The load stops and the indicator turns off when the switch acting.The switch control the two circuit,one controls the load crcuit, the other controls the indicator.the voltage of indicator is different from the load's



## AJ/AT 系列紧停开关 AJ/AT Series Pushbutton switches

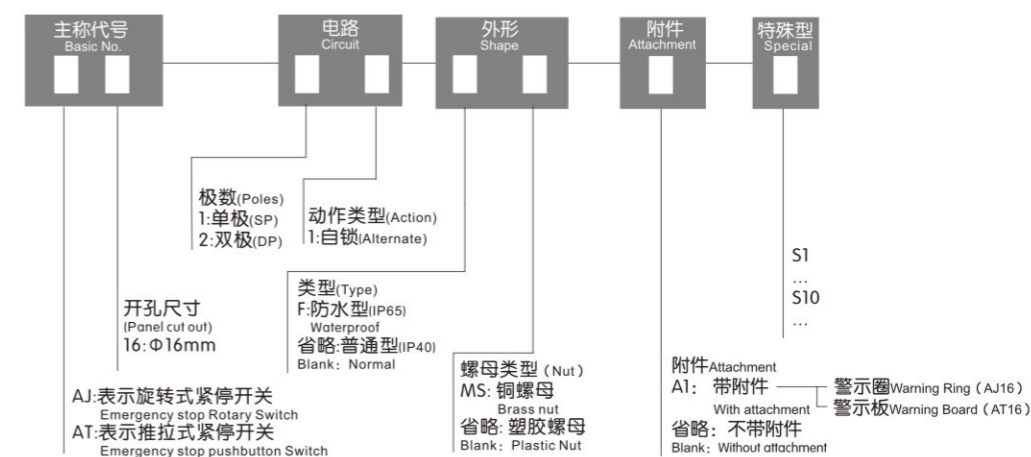
YONG XING  
ELECTRONIC



### 技术性能参数 SPECIFICATION

电气额定值(阻性负载) Max. Rating Current & Voltage(Resistive Load)	3A 250V AC
接触电阻(初始值) Contact Resistance	≤50mΩ
绝缘电阻(常态) Insulation Resistance	≥100MΩ
耐压(常态) Dielectric Strength	1,500V
电气寿命(次) Electronic Life(cycles)	自锁:25,000 Alternate:25,000
机械寿命(次) Mechanical Life(cycles)	自锁:50,000 Alternate:50,000
工作环境温度 Operating temperature	-5℃~+75℃
防护等级 IP code	IP44

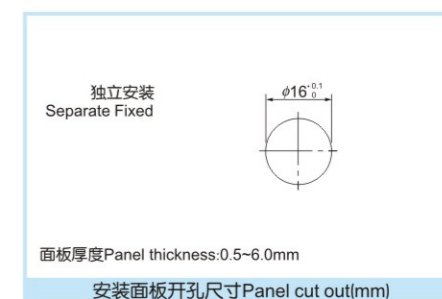
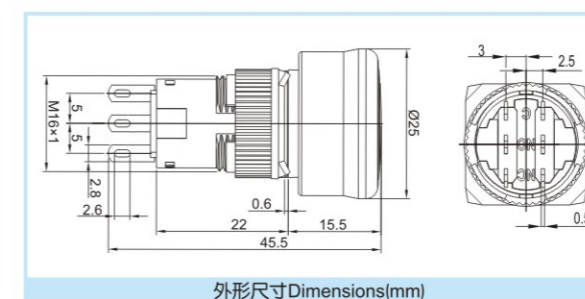
### 型号命名规则 HOW TO ORDER



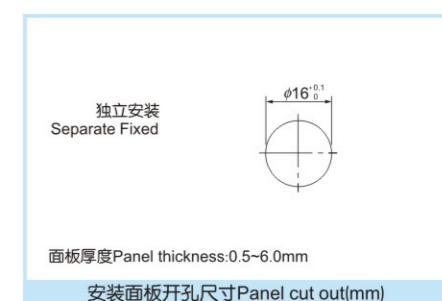
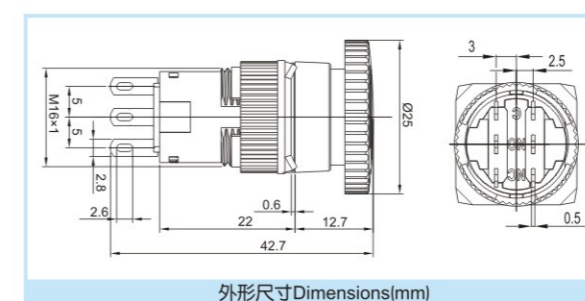
### Φ16外形及尺寸图 Overall & Dimensions(mm)



AT16



AJ16





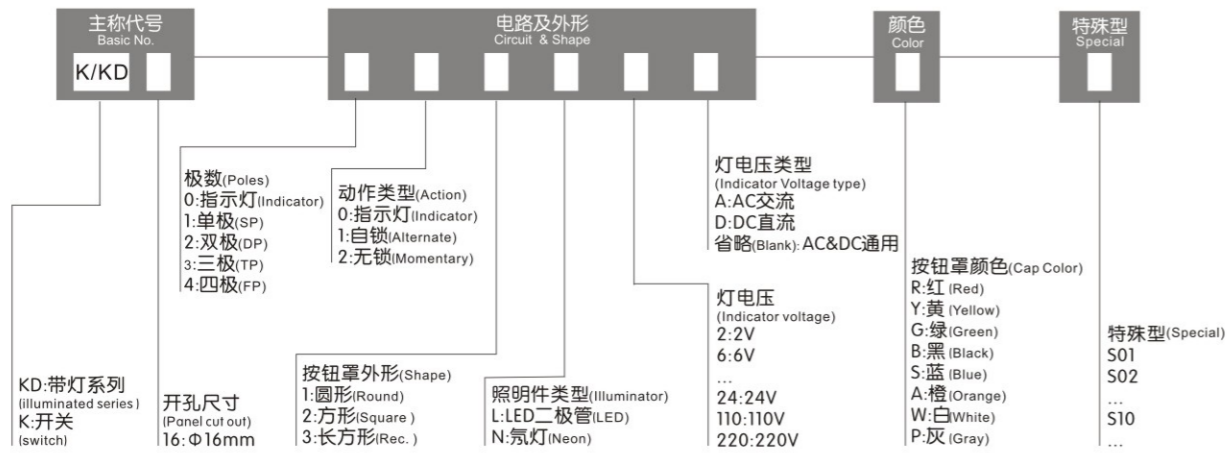
# KD16 系列按钮开关指示灯

## KD16 Series Pushbutton switches



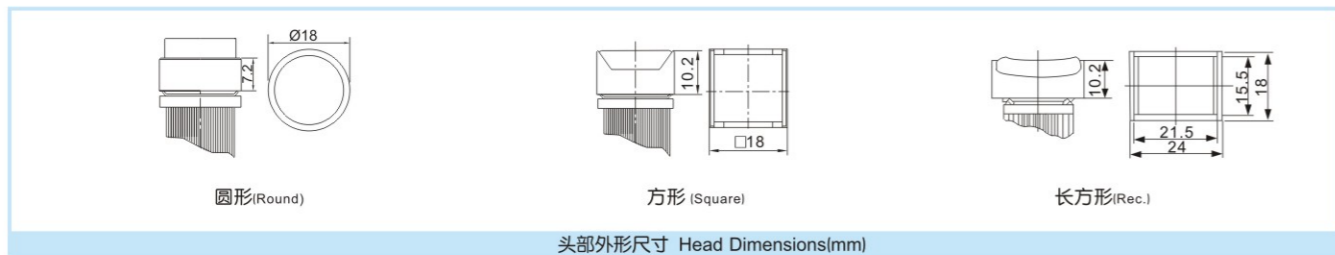
技术性能参数 SPECIFICATION	
电气额定值 (阻性负载) Max. Rating Current & Voltage(Resistive Load)	8A/125V AC 0.2A/250V DC 5A/250V AC 6A/24V DC
接触电阻 (初始值) Contact Resistance	≤50mΩ
绝缘电阻 (常态) Insulation Resistance	≥100MΩ
耐压 (常态) Dielectric Strength	1,500V
电气寿命 (次) Electronic Life(cycles)	10,000
机械寿命 (次) Mechanical Life(cycles)	100,000
工作环境温度 Operating temperature	-25℃~+55℃
防护等级 IP code	IP40

### 型号命名规则 THE STYLE SKETCH

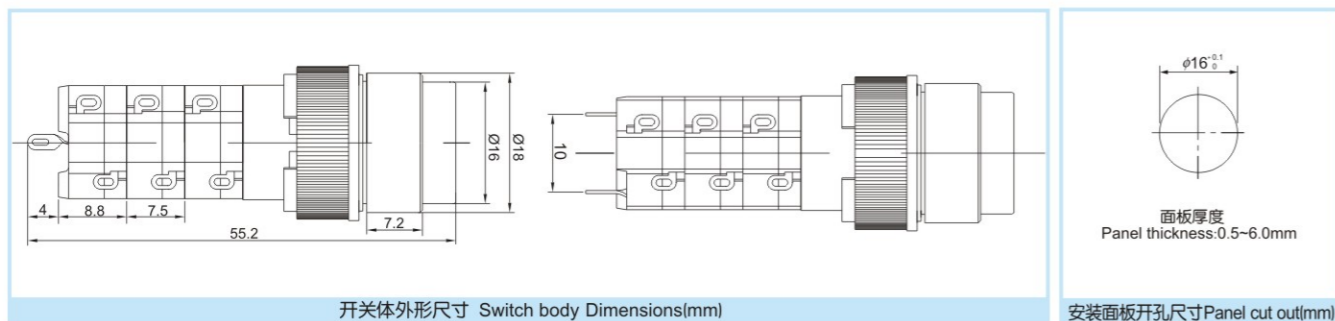


举例 (Example): 开关型号(Switch Type): KD16-111L2D-R  
指示灯型号(Indicator type): KD16-001L6D-R

### 外形及尺寸图 Overall & Dimensions(mm)

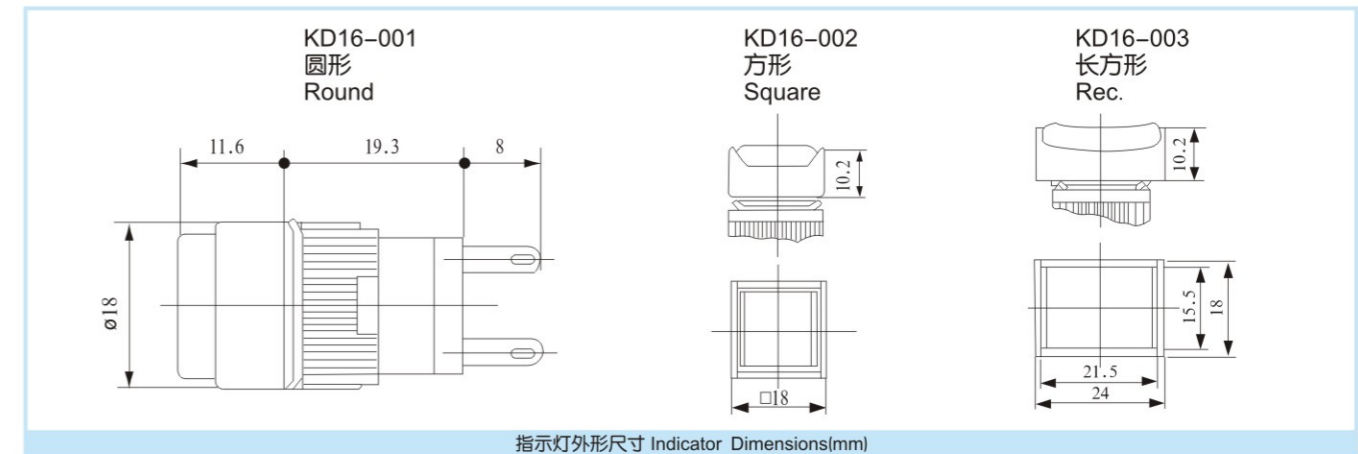
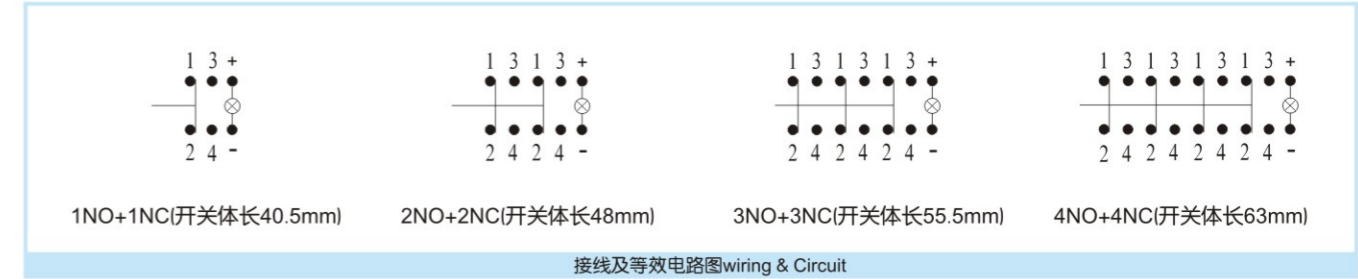


头部外形尺寸 Head Dimensions(mm)



# KD16系列按钮开关指示灯

## KD16 Series Pushbutton switches



### KD16产品图例 EXAMPLE



●注: 因为外形上看不出开关内部是否带灯及灯类型电压等参数, 故以上样品对应型号不一定完整, 完整型号请根据实际需求并参照型号定义及参数表选型。  
Note: Due to we couldn't get full information from the appearance, such as voltages, parameters and the switch with or without light, so the full model please refer to models based on the actual needs and the definition and parameters of table selection.





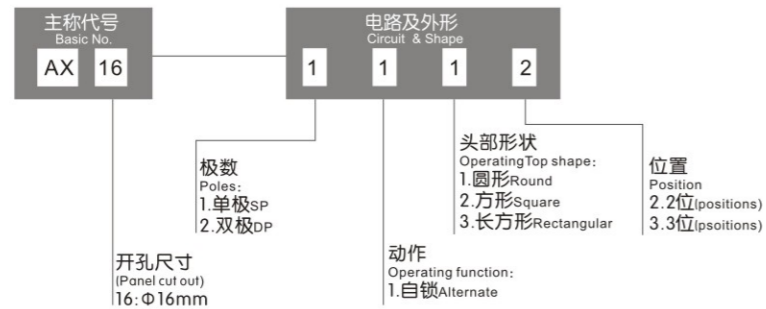
# AX16 系列旋钮开关

## AX16 Series Rotary Switches



技术性能参数SPECIFICATION	
电气额定值(阻性负载) Max. Rating Current & Voltage(Resistive Load)	3A 250V AC
接触电阻(初始值) Contact Resistance	≤50mΩ
绝缘电阻(常态) Insulation Resistance	≥100MΩ
耐压(常态) Dielectric Strength	1,500V
电气寿命(次) Electronic Life(cycles)	无锁:50,000 自锁:25,000 Momentary:50,000 Alternate:25,000
机械寿命(次) Mechanical Life(cycles)	无锁:200,000 自锁:50,000 Momentary:200,000 Alternate:50,000
工作环境温度 Operating temperature	-25℃~+55℃
防护等级 IP code	IP40

### 型号命名规则 HOW TO ORDER



举例 Example:AX16-1112

### AX16 位置及电路示意 Diagram of contact

位置 Position			
二位置 2 positions			
三位置双极双掷 3 positions			

可改变位置操作:  
借助于前盖的旋转和销扣装置可改变操作器位置,每隔45° 前盖可以被锁住,安装在面板上时可防止它自行转动.拉出前盖脱开锁,旋转前盖并在45° 间隔将前盖推入即可锁上前盖,如下图所示.

The position of operator is changable:  
Taking use of front cover's rotation and lock's position.It can change the position of operator.Every 45° interval, the front cover can be locked for refrain moving itself from installation. Pull the front cover out to deviate from the lock and then move the cover for 45° interval to push it on, Lock the cover at last.



常态  
Normal



将前盖提起  
Brought the cover



旋转45°  
Rotation45°

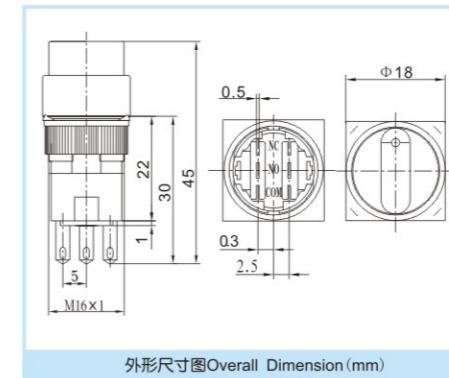


将前盖压下  
Press the cover

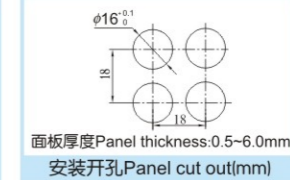
# AX16 系列旋钮开关

## AX16 Series Rotary Switches

### AX16 圆形 Round



外形尺寸图Overall Dimension (mm)



面板厚度Panel thickness:0.5~6.0mm  
安装开孔Panel cut out(mm)

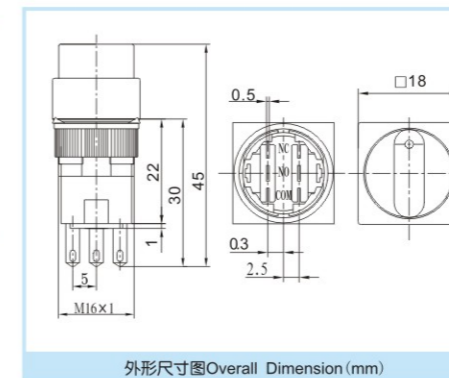
见1页位置及电路示意  
Please refer to the first page  
of the Diagram of contact

电路图Circuit

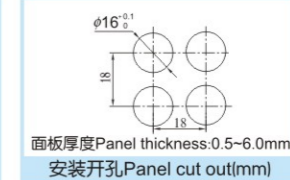
极数Poles	自锁二位Alternate 2P	自锁三位Alternate 3P
单极SP	AX16-1112	AX16-1113
双极DP	AX16-2112	AX16-2113

型号列表Model List

### AX16 方形 Square



外形尺寸图Overall Dimension (mm)



面板厚度Panel thickness:0.5~6.0mm  
安装开孔Panel cut out(mm)

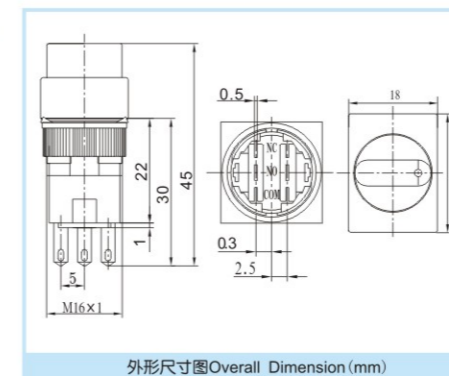
见1页位置及电路示意  
Please refer to the first page  
of the Diagram of contact

电路图Circuit

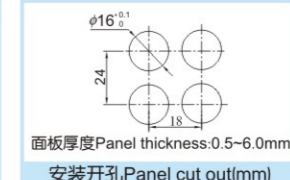
极数Poles	自锁二位Alternate 2P	自锁三位Alternate 3P
单极SP	AX16-1122	AX16-1123
双极DP	AX16-2122	AX16-2123P

型号列表Model List

### AX16 长方形 Rec.



外形尺寸图Overall Dimension (mm)



面板厚度Panel thickness:0.5~6.0mm  
安装开孔Panel cut out(mm)

见1页位置及电路示意  
Please refer to the first page  
of the Diagram of contact

电路图Circuit

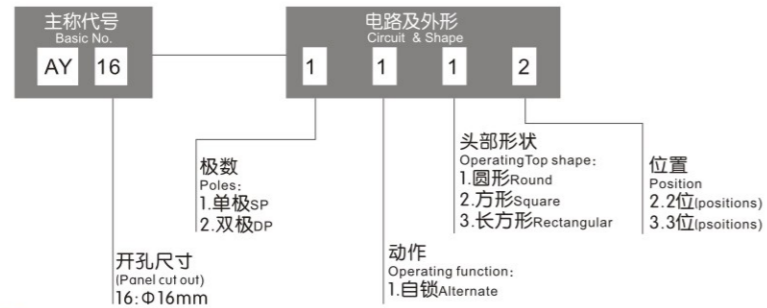
极数Poles	自锁二位Alternate 2P	自锁三位Alternate 3P
单极SP	AX16-1132	AX16-1133
双极DP	AX16-2132	AX16-2133

型号列表Model List



技术性能参数 SPECIFICATION	
电气额定值 (阻性负载) Max. Rating Current & Voltage (Resistive Load)	3A 250V AC
接触电阻 (初始值) Contact Resistance	≤50mΩ
绝缘电阻 (常态) Insulation Resistance	≥100MΩ
耐压 (常态) Dielectric Strength	1,500V
电气寿命 (次) Electronic Life (cycles)	无锁: 50,000 自锁: 25,000 Momentary: 50,000 Alternate: 25,000
机械寿命 (次) Mechanical Life (cycles)	无锁: 200,000 自锁: 50,000 Momentary: 200,000 Alternate: 50,000
工作环境温度 Operating temperature	-25℃~+55℃
防护等级 IP code	IP40

### 型号命名规则 HOW TO ORDER



举例 Example: AY16-1112

### AY16 位置及电路示意 Diagram of contact

位置 Position	二位置 2 positions	三位置双极双掷 3 positions

可改变位置操作:  
借助于前盖的旋转和销扣装置可改变操作器位置,每隔45° 前盖可以被锁住,安装在面板上时,可防止它自行转动.拉出前盖脱开锁,旋转前盖并在45° 间隔将前盖推入即可锁上前盖,如下图所示.

The position of operator is changeable:  
Taking use of front cover's relation and lock's position. It can change the position of operator. Every 45° interval, the front cover can be locked for refrain moving itself from installation. Pull the front cover out to deviate from the lock and then move the cover for 45° interval to push it on, Lock the cover at last.



常态  
Normal



将前盖提起  
Brought the cover

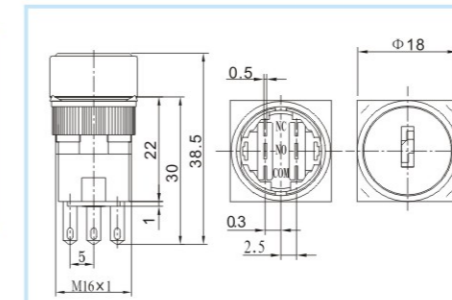


旋转45°  
Rotation 45°

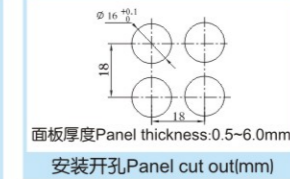


将前盖压下  
Press the cover

### AY16 圆形 Round



外形尺寸图 Overall Dimension (mm)



面板厚度 Panel thickness: 0.5~6.0mm  
安装开孔 Panel cut out (mm)

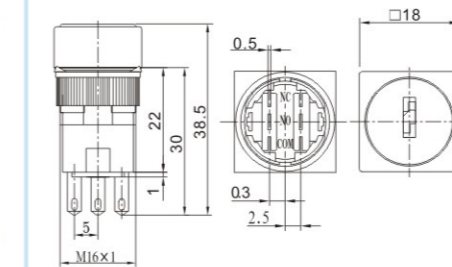
见1页位置及电路示意  
Please refer to the first page of the Diagram of contact

电路图 Circuit

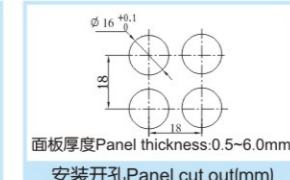
极数 Poles	自锁二位 Alternate 2P	自锁三位 Alternate 3P
单极 SP	AY16-1112	AY16-1113
双极 DP	AY16-2112	AY16-2113

型号列表 Model List

### AY16 方形 Square



外形尺寸图 Overall Dimension (mm)



面板厚度 Panel thickness: 0.5~6.0mm  
安装开孔 Panel cut out (mm)

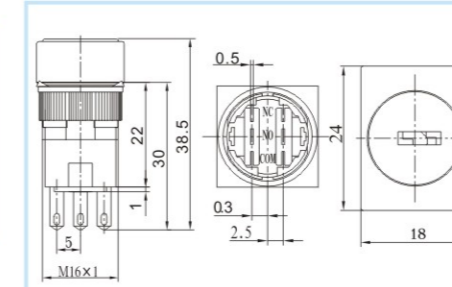
见1页位置及电路示意  
Please refer to the first page of the Diagram of contact

电路图 Circuit

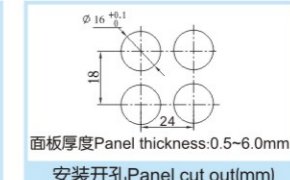
极数 Poles	自锁二位 Alternate 2P	自锁三位 Alternate 3P
单极 SP	AY16-1122	AY16-1123
双极 DP	AY16-2122	AY16-2123

型号列表 Model List

### AY16 长方形 Rec.



外形尺寸图 Overall Dimension (mm)



面板厚度 Panel thickness: 0.5~6.0mm  
安装开孔 Panel cut out (mm)

见1页位置及电路示意  
Please refer to the first page of the Diagram of contact

电路图 Circuit

极数 Poles	自锁二位 Alternate 2P	自锁三位 Alternate 3P
单极 SP	AY16-1132	AY16-1133
双极 DP	AY16-2132	AY16-2133

型号列表 Model List



# UZ16 系列蜂鸣器

## UZ16 Series Buzzers

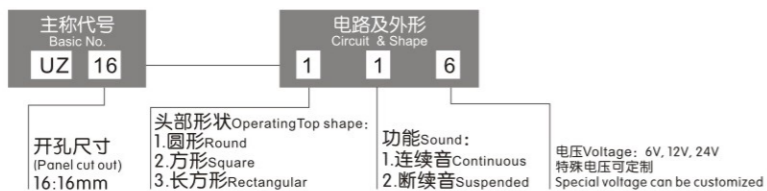


### 技术性能参数 SPECIFICATION

额定电压 Max. Rating Voltage	6V AC/DC, 12V AC/DC, 24V AC/DC
音频 Frequency	2.3±0.5KHz
声音输出(1米内) Sound output(1m)	75dB
耐压(常态) Dielectric Strength	1,000V
电气寿命(小时) Electronic Life(hours)	1,000 H
工作环境温度 Operating temperature	-25°C~+55°C
防护等级 IP code	IP40

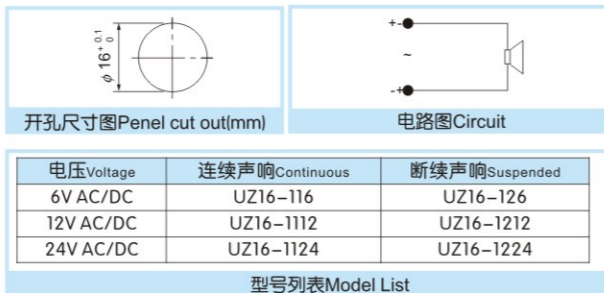
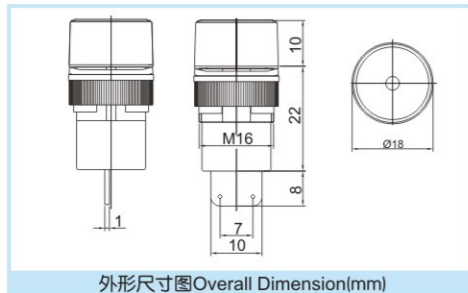
注: 本品可交直流两用, 每种规格可提供连续音和断续音两种不同的发音方式, 本产品默认颜色为黑色, 其他颜色及特殊型号请联系本公司。  
Note: The buzzers can be used in AC/DC Continuous and Suspended could be made separately from every different models.

### 型号命名规则 HOW TO ORDER

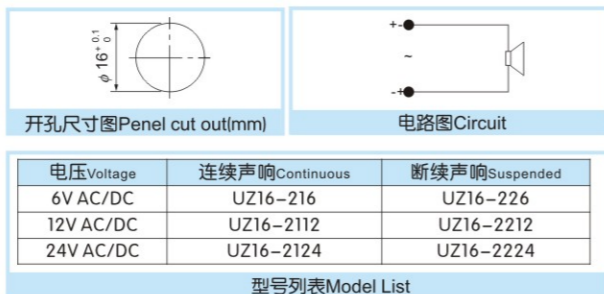
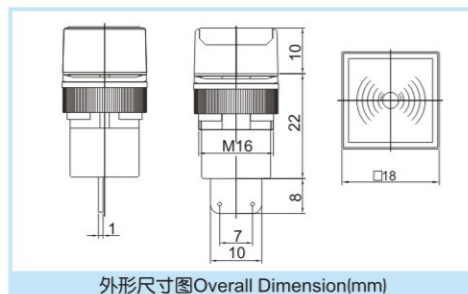


举例 Example: UZ16-126

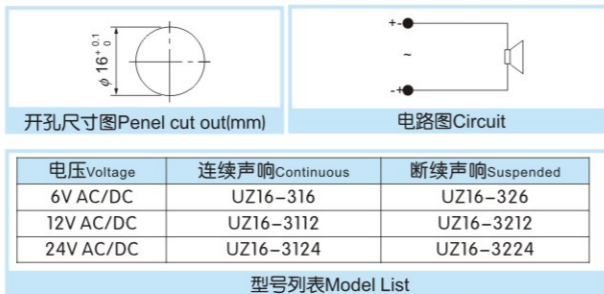
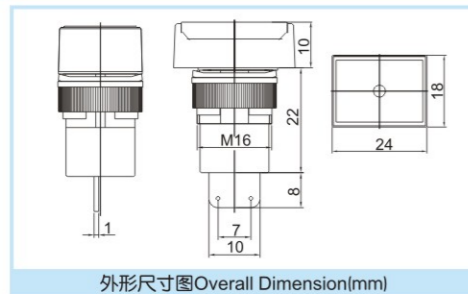
#### UZ16 圆形 Round



#### UZ16 方形 Square



#### UZ16 长方形



## 1、开关及指示灯用照明器件

### LED工作电压

LED灯工作电压为完全直流型。当用脉动电压，例如全波整流电压时，保持峰值电流在正向电流IF之内，如果峰值电流过高会缩短LED灯寿命。

### 白炽灯工作电压

当需要白炽灯寿命较长（大约3000小时）时应该在白炽灯额定工作电压内使用。若在高于工作电压下启辉灯泡，应保持环境温度低于40℃，如果施加过高电压（超过50V），白炽灯泡可能爆破，灯座也会爆裂。工作电压一般为：6V, 9V, 12V, 24V.

### 氖灯工作电压

氖灯起辉电压60~90V，若用于220VAC电路中需接一电阻，本厂用于110VAC和220VAC电路中带氖灯的开关和指示灯都已内接了电阻，可直接使用。

## 2、烙铁焊接

应使用20W的电烙铁，焊接时间不超过3s。焊接时，烙铁头不要触及外壳。接线时，要防止应力作用于接头，也不要向接头施加外力，不要弯曲或提升接头。使用无腐蚀性松香渣体焊料。

## 3、密集安装

当把照明按钮开关或指示灯密集安装或使他们连续工作时，发热会使环境温度超过额定的工作温度，当安装面板不是由金属构成或控制器安装在密闭面板上时，应安装通风设施。

### 1. THE OPERATING VOLTAGE OF THE SWITCHES AND INDICATORS ILLUMINATE

#### LED operating voltage

The LED Operating voltage are complete direct current. It should keep within IF current to the peak value current that is used of the impulse voltage, for example, a full wave commute voltage. It can be condense life of the LED for the peak voltage excessive.

#### Incandescent operating voltage

It should use rating operation voltage at below to work incandescents which is require longer life (approximately 3000 hours). The ambient temperature should keep below the 40℃, as the incandescent is light up at a voltage higher than the operating voltage. The incandescent may burst and also the lamp holder can be pop at the voltage excessive. Be used to operating voltage: 6V, 9V, 12V, 24V.

#### Neon operating voltage

The neon have the light up voltage 60V~90V is require connect a resistance if using on 220V circuit. The company's Switches and indicators can be used directly, because of have connected a resistance inside.

### 2. IRON JOINTING

It should use the 20W electroic iron to weld terminals within 3 second complete. At welding, the iron head can not touch the base part, and while wiring also prevent the tension from being applied to the terminals, neither to bend and exalt, nor exert excessive to the terminals.

### 3. COLLECTIVE INSTALLATION

When mounting collectively and working continuously illuminated pushbuttons or Indicators, heating may cause the ambient temperature to rise above the rated operating temperature, when the mounting panel is not made of metal or when the control units are mounted in an airtight panel, provide for ventilation or lower the operating voltage.