

## J19 防水型金属按钮

# J19金属按钮开关 Metal button switch



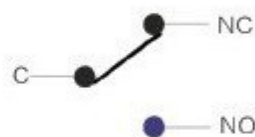
### ■ 特性 / Features

- 安装直径19mm
- 防护等级: IP67
- 触点银镀金: 3μ
- LED超高亮冷光源灯显示
- 可定制图案, 颜色及尺寸

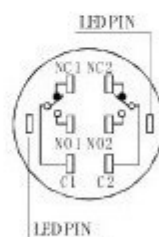
### ■ 符合标准 / Standard

符合IEC60947-5-1 GB14048.5标准  
Conform to IEC60947-5-1 GB14048.5 Standard

### ■ 触点方式 / Contact Style

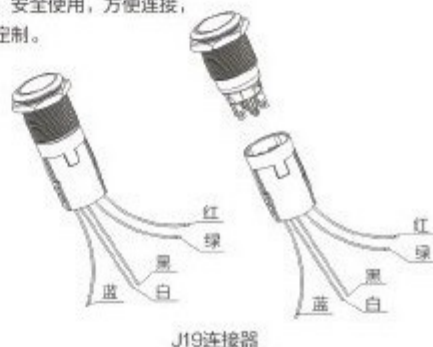


### ■ 端子描述 / Terminal Description



### ■ 连接器 / Connector

快速连接, 安全使用, 方便连接,  
线长可供定制。



J19连接器

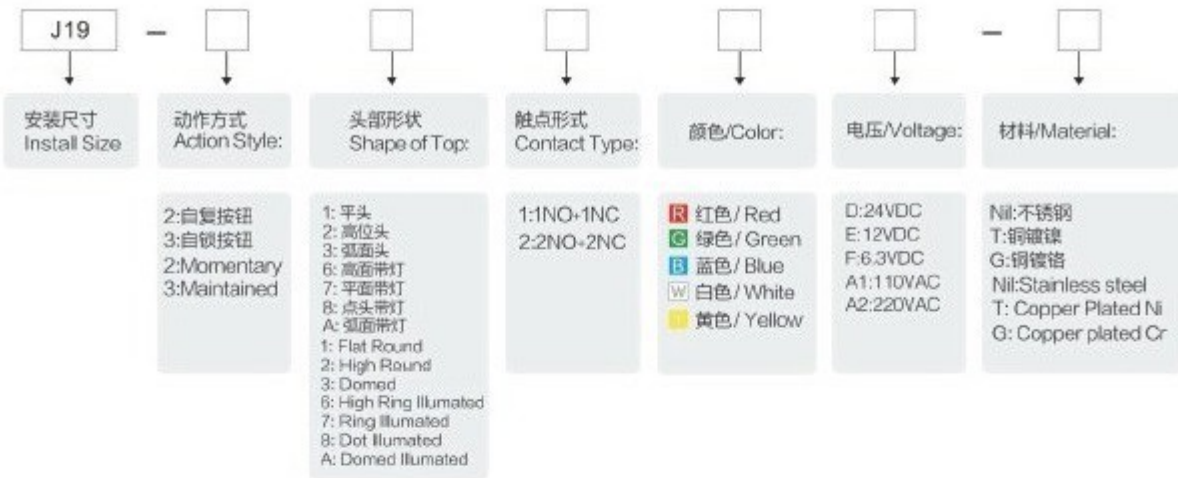
### ■ 开关结构说明 / Switching Operation

型式Type	No.1	No.2	No.3
符号Sign			
示意图Diagram			
说明Explanation	具有两个端子的双断电慢动触头开关个别产品可定制Y型常闭开关, 详见产品说明 Using two terminals, double-break and slow-motion contact. Y type NC switch can be made to order for individual product, pls check the product description.		

### ■ 额定参数/Rating

工作电压 Working voltage		24V	110V	220V	
接触参数 Contact Parameter	AC (50/60Hz)	阻性	—	1.0A	0.5A
		感性	—	0.7A	0.5A
	DC	阻性	1.0A	0.2A	—
		感性	0.7A	0.1A	—

J19 金属按钮开关命名方式 The naming definition of J19 metal push button switch



注: 常规的定制都是不锈钢外壳, 如需铜镀镍外壳, 请在型号后面加T; 如需铜镀铬外壳, 请在型号后面加G  
 Note: The regular material is Stainless steel, if you want Copper Plated with Ni, please add T behind, if you want Copper Plated Cr, please add G behind.

触点规格 Contact Ratings

额定绝缘电压 Rated insulation voltage	250					
发热电流 Heating current Ith	3A温度不超过最大额定值所允许的电流 Temperature does not exceed the maximum allowed current					
额定使用电压 Rated voltage	12V	24V	110V	220V		
额定使用电流 Rated current	交流AC 50/60Hz	电阻性负载 Resistive load	-	-	5A	3A
		电感性负载 Inductive load	-	-	3A	2A
	直流DC	电阻性负载 Resistive load	5A	5A	1A	0.5A
		电感性负载 Inductive load	2A	2A	0.2A	0.1A
触点材料 Contact material	银镀金 Silver Plated Gold					

最小适应负载 Minimum load: 3V AC/DC 5mA (参考值 Reference value)  
 (可使用范围取决于使用环境和负载种类 Use the range depends on the use of the environment and the type of load)


灯珠规格 Lamp Ratings

灯珠类型 Lamp Type	双向LED灯珠(交直流通用) LED lamp(AC/DC)
额定电压 Rated Voltage	3V, 6V, 12V, 24V, 36V, 110V, 220V AC/DC
额定电流 Rated Current	约15mA 约2mA About 15mA About 2mA
发光颜色 LED Color	R G Y B W
寿命 Life	40000小时(参考值) 40000 hours(Reference)
灯珠等效电路 Lamp Circuit diagram	<p>内置电阻: 采用6V灯珠, 需外接电阻。                      采用交直流通用的LED灯珠, 接线端子无正负极区分: 60V以下灯珠已内置保护电阻;                      Using AC/DC LED lamp, the terminals have no difference of anode and cathode:                      Using inner resistance for the lamp below 60V. Using 6V lamp when the lamp voltage is above 60V, and need connect outer dropping resistance.</p>

注: 如需单向直流LED灯珠可定做; 其他电压规格可按需求定做。  
 DC LED and other voltage can be made to order.

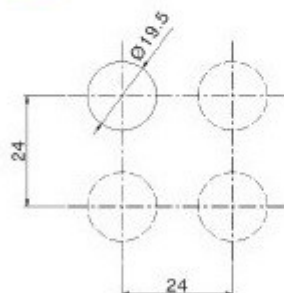
## J19 防水型金属按钮

### 主要技术参数 Technical Parameter

类型/Name	J19金属防水按钮开关 Metal Waterproof Push Button Switch					
型号/Type	*J19-211	*J19-221	*J19-231	*J19-271	*J19-281	*J19-2A1
外观/Appearance						
是否带灯/Whether with LED	不带灯/ without LED			带灯/ with LED		
操作类型/Operation Type	自复型 Momentary / 自锁型 Maintained					
外壳材料/Crust Material	不锈钢 Stainless steel / 铜镀铬 Copper plated Cr(G) / 铜镀镍 Copper Plated Ni(T)					
带灯颜色/Color	R 红色/Red G 绿色/Green B 蓝色/Blue W 白色/White Y 黄色/Yellow					
保护等级/Degree of Protection	IP67					
最大电压/Maximum Voltage	250V AC/DC					
热流/Thermal Current	3A					
最小负载/Minimum Applicable Load	5V AC/DC, 1mA					
触点材料/Contact material	Silver plated glod					
端子形式/Terminal Style	.110" Solder/ Quick Connect					
运行温度/Operating Temperature	-25° to +55°C					
操作湿度/Operating Humidity	45 to 85% RH					
接触电阻/Contact Resistance	50MΩ maximum					
绝缘电阻/Insulation Resistance	100MΩ minimum (500V DC megger)					
震动电阻/Vibration Resistance	10 to 55Hz, amplitude 1.2mm p-p					
保护等级/Degree of Protection	>10g					
电气寿命/Electrical Life	100,000 operations minimum (at full rated load)					
机械寿命/Mechanical Life	Maintained: 1,000,000 operations minimum Momentary: 1,000,000 operations minimum Selector/Keylock: 250,000 operations minimum					
耐压/Dielectrical Life	Switch Unit: 2,000V AC, 1 min. between live/dead part and terminals of different poles; 1,000V AC, 1 minute between terminals of the same pole; 1,500V AC, 1 minute between contact and lamp terminals. Illumination Unit: 2,000V AC, 1 min. between live part/ground					
锡焊温度/Soldering Temperature	20W/5 seconds or 260°C/3 seconds					

注：\* 详细型号分类参考(金属按钮开关命名方式表)

### 安装尺寸 Install Size



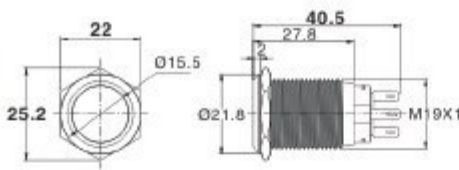


Ø19金属防水按钮开关 Metal Waterproof Push Button Switch

平钮



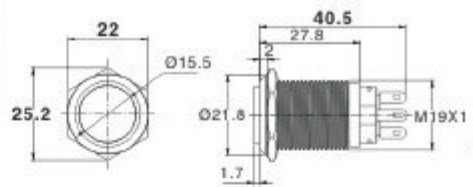
单刀/1Pole  
双刀/2Pole



高位钮



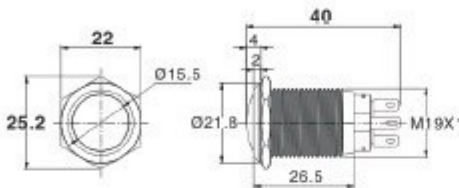
单刀/1Pole  
双刀/2Pole



弧钮



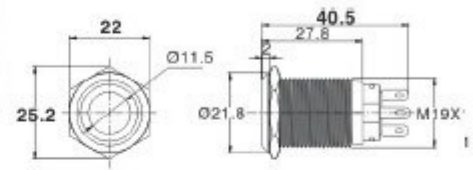
单刀/1Pole  
双刀/2Pole



平钮带灯



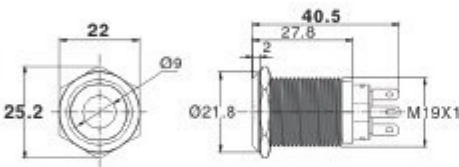
单刀/1Pole  
双刀/2Pole



平钮带头灯



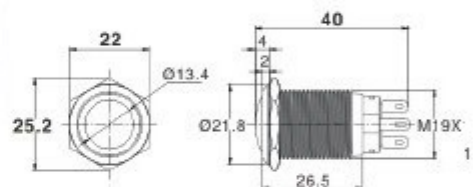
单刀/1Pole  
双刀/2Pole



弧钮带灯





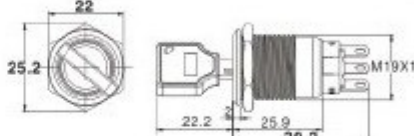
单刀/1Pole  
双刀/2Pole


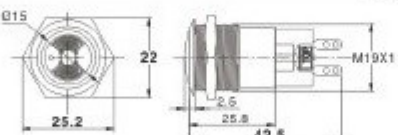


金属按钮配件 Metal Push Button Accessories

类型/Name	开关保护罩工具 Switch protective cover tools	绝缘端子罩 Insulated terminal cover	插座 Socket		安装孔塞 Mount hole
型号/Type	JHK16M1	JHKP	JH16S114	JH16S113	JH16KG
外观/Appearance					
规格/Specifications	Ø19, Ø22使用 圆形/正方形用 (90° 开闭型空型) Round/square with (90° Open /close return type)	焊接脚保护套 The Welding foot Protective sleeve	焊接端子 Solder terminal	PCB用端子 Terminal	橡胶塞 Rubber plug
材料/Material	保护罩(多芳基化 树脂)底座(聚缩醛) Protective cover (multiple arylaton resin) Base (POM)	乳白色尼龙树脂制 Milk white nylon resin	PA66	PA66	PA66

类型/Name	接插件 Connector			
型号/Type	J16-C	J19-C	J22-C	J25-C
外观/Appearance				

Ø19选择/钥匙金属开关 Selector and Key Metal Switch									
类型/Name	J19选择开关 Selector Switch						J19钥匙开关 Key Switch		
外观/Appearance									
型号/Type	J19-411	J19-412	J19-512	J19-471	J19-472	J19-572	J19-611	J19-612	J19-712
是否带灯/Whether with LED	不带灯/without LED			带灯/with LED			自锁 Maintained		
操作位规格/Operation	90° 2位 2 Position		90° 3位 3 Position	90° 2位 2 Position		90° 3位 3 Position	90° 2位 2 Position		90° 3位 3 Position
触点/Contact	单刀/SPDT	双刀/DPDT		单刀/SPDT	双刀/DPDT		单刀/SPDT	双刀/DPDT	双刀/DPDT
带灯颜色/Color	<span style="color:red">■</span> 红色/Red <span style="color:green">■</span> 绿色/Green <span style="color:blue">■</span> 蓝色/Blue <span style="color:white">■</span> 白色/White <span style="color:yellow">■</span> 黄色/Yellow								
电压/Voltage	D:24VDC			E:12VDC	F:6.3VDC	A1:110VAC A2:220VAC			
外形尺寸/Dimensions									

Ø19蜂鸣器 Buzzer	
类型/Name	J19蜂鸣器 Buzzer
外观/Appearance	
型号/Type	J19-BZ
是否带灯/Whether with LED	不带灯/without LED
带灯颜色/Color	<span style="color:red">■</span> 红色/Red <span style="color:green">■</span> 绿色/Green <span style="color:blue">■</span> 蓝色/Blue <span style="color:white">■</span> 白色/White <span style="color:yellow">■</span> 黄色/Yellow
电压/Voltage	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC
外壳材料/Crust Material	不锈钢 Stainless steel 铜镀镍 Copper Plated Ni (T) 铜镀铬 Copper plated Cr (G)
头部形状/The Front Shape	平圆形网孔状 Flat Round Honeycomb
发音类型/Its phonation type	蜂鸣Buzzer(M) 闪光蜂鸣Flicker Buzzer(SM)
声音强度/Sound Intensity	≥ 85dB(0.1米)
外形尺寸/Dimensions	

Ø19急停按钮 Emergency Stop Button	
类型/Name	J19急停按钮 Emergency Stop Button
外观/Appearance	
型号/Type	J19-811
外壳材料/Crust Material	不锈钢 Stainless steel
操作类型/Operation type	推锁旋放式 Push-lock Turn-reset
安装方法/Method	拆装式 Combined Structure
开关组合/ Contact Configuration	1NO 1NC/2NO 2NC/3NO 3NC
外形尺寸/Dimensions	

## J19 防水型金属按钮

### J19 金属按钮开关命名方式 The naming definition of J19 metal push button switch

	—					—	
安装尺寸 Install Size		型号 Modle	头部形状 Shape of Top:	触点形式 Contact Type:	颜色/Color:	电压/Voltage:	材料/Material:
		4:选择钮(二段) 5:选择钮(三段) 6:钥匙钮(二段) 7:钥匙钮(三段) 8:急停 A:A型急停 4: Selector(2P) 5: Selector(3P) 6: Key Switch(2P) 7: Key Switch(3P) 8: E-sop A: A mode E-sop	1:平头 7:平面带灯 1:Flat Round 7:Ring Illumated	1:1NO+1NC 2:2NO+2NC 3:3NO+3NC	红色 / Red 绿色 / Green 蓝色 / Blue 白色 / White 黄色 / Yellow	D:24VDC E:12VDC F:6.3VDC A1:110VAC A2:220VAC	Ni:不锈钢 T:铜镀镍 G:铜镀铬 A:铝合金 Ni:Stainless steel T: Copper Plated Ni G: Copper plated Cr A: Aluminium alloy

注：常规的定制都是不锈钢外壳，如需铜镀镍外壳，请在型号后面加T；如需铜镀铬外壳，请在型号后面加G

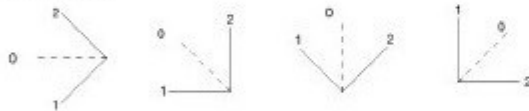
Note: The regular material is Stainless steel, if you want Copper Plated with Ni, please add T behind, if you want Copper Plated Cr, please add G behind.

### Ø19选择/钥匙金属开关 Selector and Key Metal Switch

通过旋转独特的锁定结构型法兰盘即可改变选择位。且，法兰盘具备每旋转45°即可固定的锁定功能，所以法兰盘无旋转偏移，面板安装容易。

#### 选择角的位置变更方法

【3位选择形状例】



出厂时的选择位位置



首先将法兰盘用力拉出解除锁定，即可旋转法兰盘。选择角的位置在任意45°的位置上按下即可进行锁定。

#### 选择钮，钥匙钮手柄位置/Selector and Key Switch Handle Positon

操作位规格 Operation		触点 Contact		↙	↑	↗
90° 2位 2 Positon	自锁 Maintained	自复 Momentary	单刀 SPDT			
			双刀 DPDT			
90° 3位 3 Positon	自锁 Maintained	左锁右复 Left lock Right reset	三刀 TPDT			
	左复右锁 Left reset Right lock	自复 Momentary				