

SKB0产品特点与结构及性能 SKB0 series of product structure and performance characteristics

产品开关部件（触点）带灯机构模块化：无论平压式或翘板式（触点）均具有相同的外形尺寸，可以任意组合（增加）；按钮增加带灯功能时无需增加产品安装空间，不带灯按钮可同时控制3组开关部件（触点），而不增加产品体积。

开关部件（触点）的自洁能力：秉承双科先进的设计理念，翘板式开关部件（触点）具有自洁能力，随着按钮开关操作的进行，触点可自主清洁表面的灰尘和氧化层，保持产品的通电性能。

防水性能：增加防水设计，防水等级可达IP65。

体积小巧，结构简单：板后尺寸仅为48mm；操作部件与开关部件间的连接更加简单，保证了连接的可靠性和使用寿命，安装更加方便。

通电性能更强：120V电压下可承载10A电流；机械寿命可达100万次。

Product switch parts (contact) mechanism with light modular: regardless of the platen or warped plate (contact) have the same dimension, can be any combination of (increase); push button increase the illuminated function without increasing the product installation space, un-illuminated push button can control 3 groups switch parts (contact) without increasing the volume of the products simultaneously.

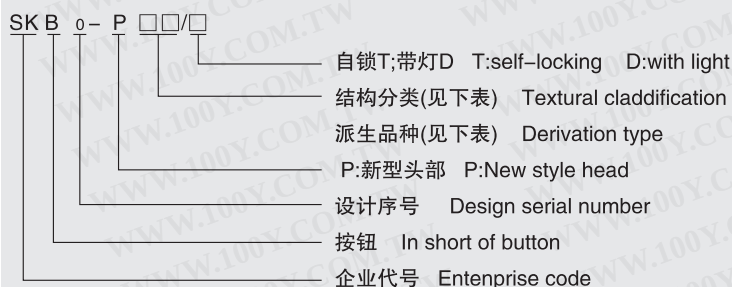
Self-cleaning capacity of the switch components (contact): adhering to Shuangke advanced design concepts, warped plate switch parts (contact) with self-cleaning ability, with the operation of the push button switch, the contacts can be self-cleaning surface dust and oxidation layer, Keep the electricity performance of the products.

The waterproof performance: increase the waterproof design, waterproof grade up to Ip65.

Compact, simple structure: the rear dimensions of only 48mm; connection between the operating components and switch components to ensure the reliability and lifetime of the connection, the installation more convenient.

The electricity performance more powerful: 120V voltage can carry 10A current; mechanical life up to one million times.

型号及其含义 Model and implication



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派生品种 Derivation type	规格代号 Size number			
A: 平钮 A: Flat button	1: 白 white	4: 红 red	1: 常开 NO	5: 常开+常闭
L: 高钮 L: High button	2: 黑 black	5: 黄 yellow	2: 常闭 NC	5: NO+NC
LA: 高平钮 LA:Extend push button	3: 绿 green	6: 蓝 blue	3: 二常开 2 NO	6: 二常开+常闭
UA: 低平钮 UA: Low flat button			4: 二常闭 2 NC	6: 2 NO+NC
				7: 二常闭+常开
				7: 2 NC+NO
C: 蘑菇头自复钮	4: Φ30		3: 绿 green	1: 常开 NO
C: mushroom self-reset button	5: Φ40		4: 红 red	4: 二常闭
S:蘑菇头自锁, 转动复位	6: Φ60		5: 黄 yellow	2: 常闭 NC
S:Mushroom self-lock reset after turning	1: Φ40(钥匙复位)			3: 二常开 2 NO
				5: 常开+常闭
				5: NO+NC
D: 短柄旋钮 D: Short handle turn button	2: 二位置锁定 Two position lock		1: 常开 NO	4: 二常闭
J: 长柄旋钮 J: Long handle turn button	3: 三位置锁定 Three position lock		2: 常闭 NC	4: 2 NC
G: 钥匙钮 G: Key button	4: 二位置复位 Self reset on the two position		3: 二常开 2 NO	5: 常开+常闭
	5: 三位置复位 Self reset on the three position			5: NO+NC
R: 双位按钮	43: 红绿 red green		5: 常开+常闭	
R: two position push button	45: 红黄 red yellow		5: NO+NC	
	53: 黄绿 yellow green			

注：按钮需自锁，在完整型号后加/T；按钮带灯，在完整型号后加/D。

触点部分有SKB0-1(翘板式)，SKB0-2(平压式)，订货时请注明，如无注明我们将提供翘板式触点。

Note: Please add T after full model if you need self locking push button; add D after full model if you need illuminated push button.

Switch contact: SKB0-1 shap action contaot, SKB0-2 slow action contact

1、面板伸出高(10mm)的薄型设计, 体现简洁时尚的平面控制面板形象。

可实现形象时尚的装置以及操作控制面板, 而且, 面板面的凹凸少, 在安全层面上, 可以降低面板的突起被意外触碰而引起误操作或事故发生, 而在卫生层面上也可以减轻灰尘以及垃圾的堆积。

1、The extend length of panel is (10mm) slim design reflects the simple and stylish flat-screen control panel image.

Can realize Image of the stylish device and the operator control panel, and the panel surface of the bump is few, on the security level can be lower panel of the processes being accidentally touching caused by misuse or accident, can also reduce the dust on the health aspects of and the accumulation of garbage.

2、面板后伸出长仅48mm,可进行省空间化设计。

可为装置及控制面板的小型化做贡献, 使省空间化设计成为可能。非照明型平钮每层最大可搭载3个触点, 可装2层一共6个触点。照明型每层最大可搭载2个触点, 可装2层一共4个触点。也可与按钮盒以及其他 $\phi 22$ 安装孔通用控制箱组合。

●超短机身, 却拥有120V AC-10A的触点切换容量。

●所有照明电压均无需变压器, 面板后伸长一致。

2、The rear of the panel elongation only 48 mm, can proceed space-saving design.

To contribute to the miniaturization of device and the control panel, make space-saving design possible. Non-illuminated flat push button on each layer equipped with three contacts can be installed two layers, a total of six contacts. illuminated type on each layer equipped with two contacts can be installed two layers, a total of four contacts. Can also be installed with the button boxes and other $\phi 22$ mounting hole be in common use control box combinations.

● the ultra short body, but with 120 V AC-10A contact switching capacity.

● All lighting voltage without transformers, the rear of the panel elongation unanimously.

3、触头有自清洁功能, 低电流也可应用。

无论是平压式触点还是翘板式触点均带有擦拭动作, 可实现触头自清洁功能。在操作过程中, 动触头滚动, 当与静触头接触后便向旁边滑动。由于这一特性即使在低电流应用中也能确保触头自清洁功能。

3、The contact with self-cleaning function, low current can also be applied.

Platen type contacts or warped plate type contact with wiping action can realize contact self-cleaning function. During operation, the moving contact rolling, sliding sideways after contact with the static contact. This feature even in the low-current applications to ensure that the contact self-cleaning function.

4、叠加形式方便实用, 2种触点结构供选择。

触点可以叠加, 能够灵活应对各种触点结构。触点模块化, 触点部分有翘板式、平压式。

翘板式 (左) 优点: 分断速度快, 分断能力强。

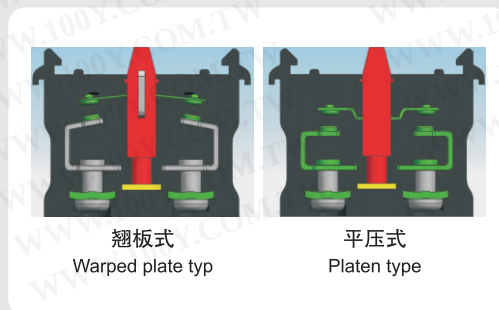
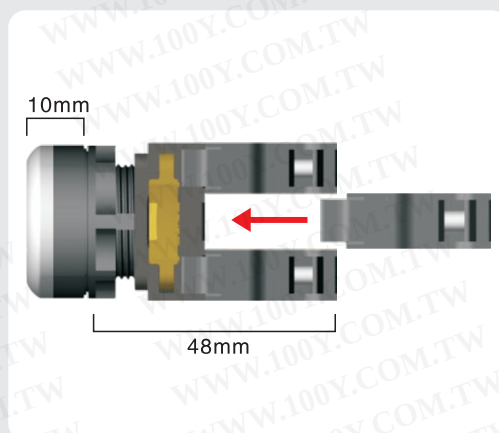
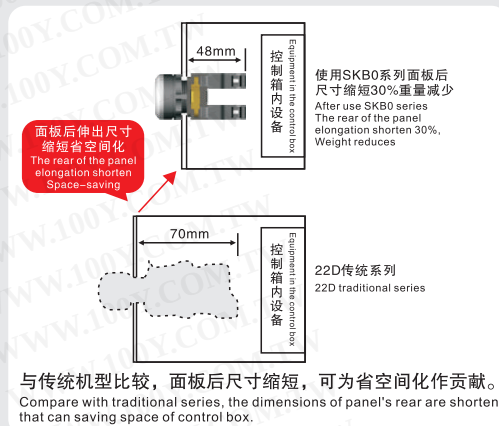
平压式 (右) 优点: 可承载电流大 (与翘板式比), 过载能力强。

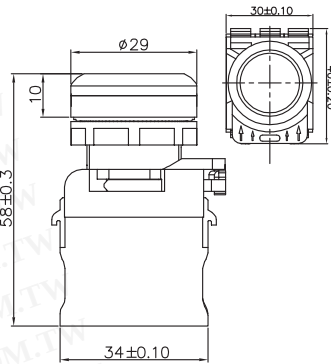
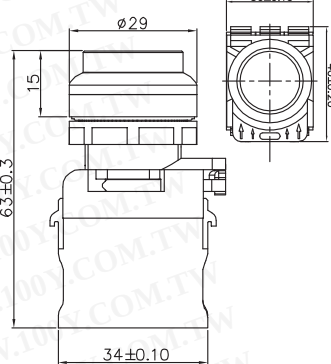
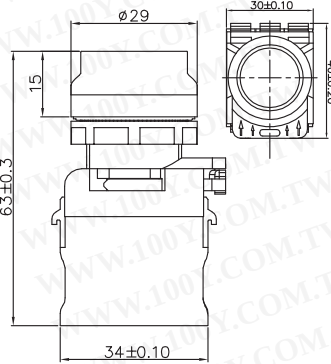
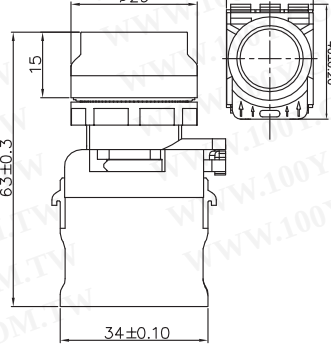
4、Superposition form convenient and practical, the two kinds of contact structures can be choose.

The contacts can be superimposed, able to respond to all the kinds of contact structures flexibly. The modular contacts, the contact part warped plate、platen type.

Warped plate type (Left) Advantages: fast breaking, powerful breaking capacity.

Platen type (right) Advantages: can carry current (compare with warped plate type), strong overload capacity.



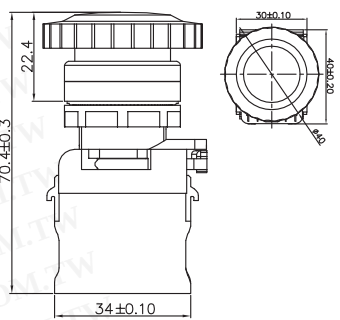
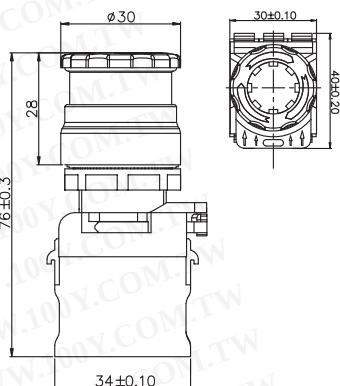
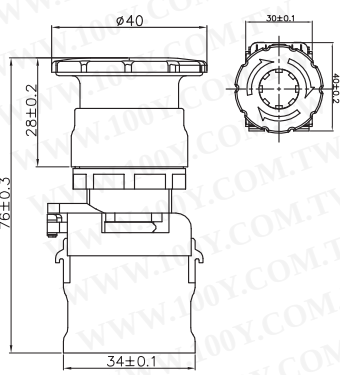
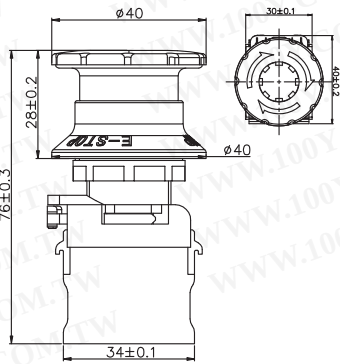
外形图 Outline	功能 Function	型号 Model	颜色 Color	外形尺寸 Overall dimension
 一般按钮 Push button	瞬动型 Instantaneous type	SKB0-PA31 SKB0-PA42 SKB0-PA35 SKB0-PA45	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
	自锁型 Self-locking type	SKB0-PA31/T SKB0-PA42/T SKB0-PA35/T SKB0-PA45/T		
 高位按钮 High cap button	瞬动型 Instantaneous type	SKB0-PL31 SKB0-PL42 SKB0-PL35 SKB0-PL45	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
	自锁型 Self-locking type	SKB0-PL31/T SKB0-PL42/T SKB0-PL35/T SKB0-PL45/T		
 高平按钮 Extended push button	瞬动型 Instantaneous type	SKB0-PLA31 SKB0-PLA42 SKB0-PLA35 SKB0-PLA45	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
	自锁型 Self-locking type	SKB0-PLA31/T SKB0-PLA42/T SKB0-PLA35/T SKB0-PLA45/T		
 低平按钮 Low flat button	瞬动型 Instantaneous type	SKB0-PUA31 SKB0-PUA42 SKB0-PUA35 SKB0-PUA45	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
	自锁型 Self-locking type	SKB0-PUA31/T SKB0-PUA42/T SKB0-PUA35/T SKB0-PUA45/T		

注：按钮需自锁，在完整型号后加/T；按钮带灯，在完整型号后加/D。

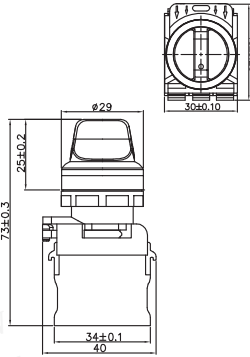
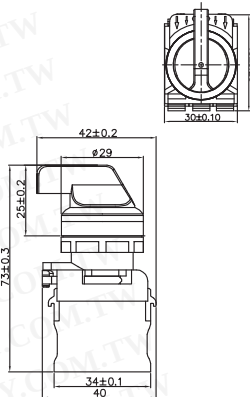
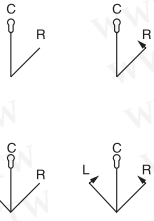
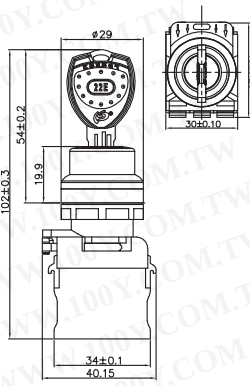
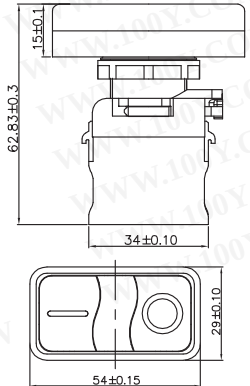
触点部分有SKB0-1(翘板式)，SKB0-2(平压式)，订货时请注明，如无注明我们将提供翘板式触点。

Note: Please add T after full model if you need self locking push button; add D after full model if you need illuminated push button.

Switch contact: SKB0-1 shap action contact, SKB0-2 slow action contact

外形图 Outline	功能 Function	型号 Model	颜色 Color	外形尺寸 Overall dimension
 蘑菇钮 Mushroom push button	瞬动型 Instantaneous type	SKB ₀ -PC31 SKB ₀ -PC42 SKB ₀ -PC35 SKB ₀ -PC45	● 红 R ● 绿 G ● 黄 Y	
	自锁型 Self-locking type	SKB ₀ -PC31/T SKB ₀ -PC42/T SKB ₀ -PC35/T SKB ₀ -PC45/T		
 φ 30 紧急钮 Emergency push button	按压锁定， 顺时针，转复位 Push locking, in clockwise direction, move reset	SKB ₀ -PS442	● 红 R	
 φ 40 紧急钮 Emergency push button	按压锁定， 顺时针，转复位 Push locking, in clockwise direction, move reset	SKB ₀ -PS542	● 红 R	
 φ 40 紧急钮(带警告圈/带灯) Emergency push button (with warning ring/with light)	按压锁定， 顺时针，转复位 Push locking, in clockwise direction, move reset	SKB ₀ -PS542/□	● 红 R	

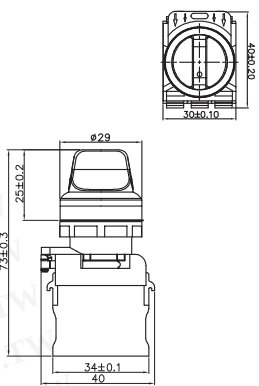
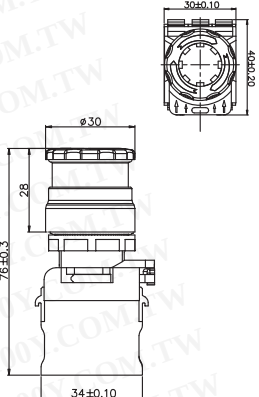
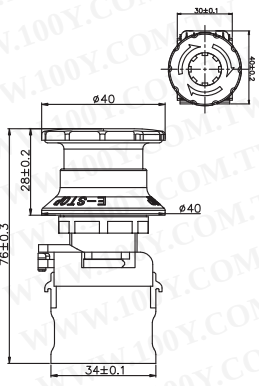
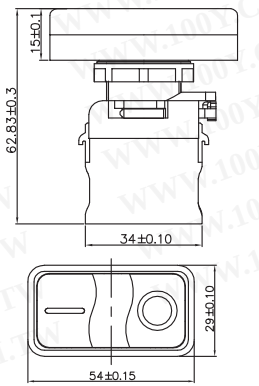
注：□ 带警告圈 with warning ring

外形图 Outline	功能 Function	型号 Model	颜色 Color	外形尺寸 Overall dimension
 旋钮 Turn button	二位置 Two-position	SKB ₀ -PD21 SKB ₀ -PD25	● 黑 K 手柄位置 Handle position 	
	三位置 Three-position	SKB ₀ -PD33		
 长柄旋钮 Turn button with long handle	二位置 Two-position	SKB ₀ -PJ21 SKB ₀ -PJ25	● 红 R ● 绿 G ● 黄 Y 	
	三位置 Three-position	SKB ₀ -PJ33		
 钥匙钮 Key button	二位置 Two-position	SKB ₀ -PG21 SKB ₀ -PG25	取出位置 Removable position 	
	三位置 Three-position	SKB ₀ -PG33		
 双位按钮 Double position push button		SKB ₀ -PR435	● 红/绿 R/G	

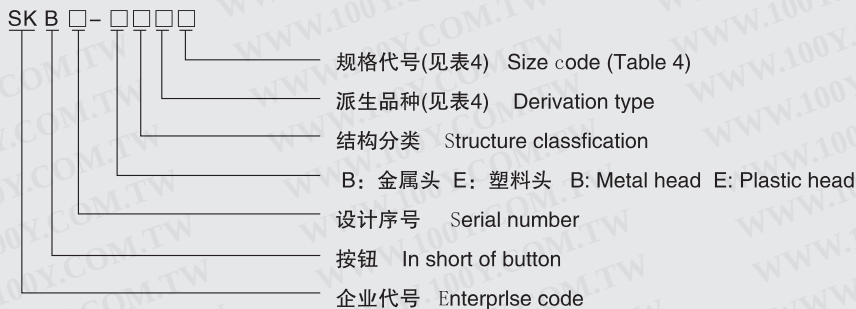
外形图 Outline	功能 Function	型号 Model	颜色 Color	外形尺寸 Overall dimension
一般按钮(带灯) Push button(with light)	瞬动型 Instantaneous type	SKB ₀ -PA31/D SKB ₀ -PA42/D SKB ₀ -PA35/D SKB ₀ -PA45/D	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
	自锁型 Self-locking type	SKB ₀ -PA31/TD SKB ₀ -PA42/TD SKB ₀ -PA35/TD SKB ₀ -PA45/TD		
高位按钮(带灯) High cap button(with light)	瞬动型 Instantaneous type	SKB ₀ -PL31/D SKB ₀ -PL42/D SKB ₀ -PL35/D SKB ₀ -PL45/D	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
	自锁型 Self-locking type	SKB ₀ -PL31/TD SKB ₀ -PL42/TD SKB ₀ -PL35/TD SKB ₀ -PL45/TD		
高平按钮(带灯) Extended push button(with light)	瞬动型 Instantaneous type	SKB ₀ -PLA31/D SKB ₀ -PLA42/D SKB ₀ -PLA35/D SKB ₀ -PLA45/D	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
	自锁型 Self-locking type	SKB ₀ -PLA31/TD SKB ₀ -PLA42/TD SKB ₀ -PLA35/TD SKB ₀ -PLA45/TD		
低平按钮(带灯) Low flat button(with light)	瞬动型 Instantaneous type	SKB ₀ -PUA31/D SKB ₀ -PUA42/D SKB ₀ -PUA35/D SKB ₀ -PUA45/D	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
	自锁型 Self-locking type	SKB ₀ -PUA31/TD SKB ₀ -PUA42/TD SKB ₀ -PUA35/TD SKB ₀ -PUA45/TD		

注：带灯按钮订货时请标注灯电压，电压等级：DC/AC 6V、12V、24V、36V、48V、110V、127V、220V和AC220V、380V。

Note: Lamp button when ordering, please indicate the lamp voltage, the voltage level: DC / AC 6V, 12V, 24V, 36V, 48V, 110V, 127V, 220V and AC220V, 380V.

外形图 Outline	功能 Function	型号 Model	颜色 Color	外形尺寸 Overall dimension
 旋钮(带灯) Turn button with light	二位置 Two-position	SKB ₀ -PD21/D SKB ₀ -PD25/D	● 红 R ● 绿 G ● 黄 Y	
	三位置 Three-position	SKB ₀ -PD33/D		
 φ 30 紧急按钮(带灯) Emergency push button(with light)	按压锁定, 顺时针, 转复位 Push locking, in clockwise direction, move reset	SKB ₀ -PS442/D	● 红 R	
 φ 40 紧急按钮(带灯) Emergency push button(with light)	按压锁定, 顺时针, 转复位 Push locking, in clockwise direction, move reset	SKB ₀ -PS542/D	● 红 R	
 双位按钮(带灯) Double position push button(with light)		SKB ₀ -PR435/D	● ● 红/绿 R/G	

型号及其含义 Model and implication



正常工作条件

Normal working condition

- 1、周围空气温度为 $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ ，24小时内其平均值不超过 $+35^{\circ}\text{C}$ 。
 - 2、海拔高度：安装地点的海拔不超过2000m。
 - 3、大气条件：最高温度为 $+40^{\circ}\text{C}$ 时，空气的相对湿度不超过50%，在较低的温度下可以允许有较高的相对湿度，例如 $+20^{\circ}\text{C}$ 时达90%。对由于温度变化偶尔产生的凝露应采取特殊的措施。
 - 4、污染等级：3级
 - 5、安装类别：II类
1. Ambient air temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ ，the average temperature: $\leq +35^{\circ}\text{C}$.
 2. Altitude $\leq 2000\text{m}$.
 3. Air condition when the highest temperature is $+40^{\circ}\text{C}$ ，relative humidity is no more than 50%，Allowed to have higher relative humidity under lower. For example, when $+20^{\circ}\text{C}$ ，the relative humidity is 90%，Furthermore, considering that it sometimes appears moderate condensation on product's surface.
 4. Class of pollution: 3.
 5. Class if installation: II.

主要技术参数(见表1、表2、表3) Main technological parameter (table 1、table 2、table 3)

表 Table 1

额定绝缘电压 $U_i(\text{V})$		380					
约定发热电流 $I_{th}(\text{A})$		10					
额定工作电压 $U_e(\text{V})$	AC-15	380	220	110	48	24	
	DC-13	2.5	4.5	6	8	-	
额定工作电流 $I_e(\text{A})$		-	0.3	0.6	1.3	2.5	

表 Table 2

工频耐压 Withstand voltage	2500V Ac, 1分钟 Minute
触点电阻 Contact resistance	$\leq 50\text{m}\Omega$ (初始值) (Initial value)
机械寿命 Mechanical life	平头式、蘑菇头式100万次，带灯式30万次，其它10万次 Flat type、mushroom type 1000,000、double-heads type 300,000 AC 100,000
电寿命 Electrical life	平头式、蘑菇头式、双头式AC50万次，DC20万次，其余10万次。 Flat type、mushroom type、double-heads type AC 500,000 DC 200,000 other 200,000
防护等级 Level of protection	IP40

表 Table 3

额定电压 Rated voltage (V)	直接式 Direct type								电阻式 Resistance type	变压器式 Transformer type
电光源 Light source	6	12	24	48	110	220	380		220	220 380
LED灯 LED light	✓	✓	✓	-	-	-	-		-	✓ ✓
氛灯 Neon lamp	-	-	-	-	✓	✓	✓		✓	- -
白炽灯 Incandescent light	✓	✓	✓	✓	✓	✓	✓		-	✓ ✓

表 Table 4

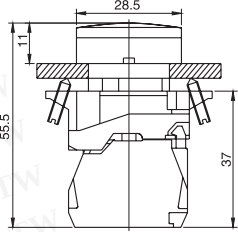
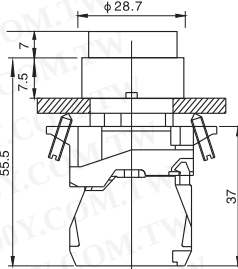
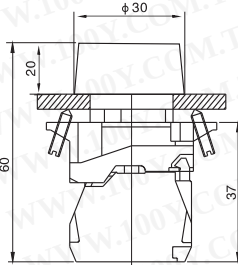
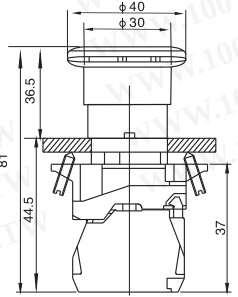
派生品种 Derivation type	规格代号 Size number		
A: 平钮 A: Flat button	1: 白 white	1: 常开 NO	
C: Φ 40蘑菇头自复钮 C: Φ 40 mushroom self-reset button	2: 黑 black	2: 常闭 NC	—
L: 高位钮 L: High cap button	3: 绿 green	3: 二常开 two NO	
P: 一般钮(带防护罩) P: Ush button(Atansparent silica gel cover)	4: 红 red	4: 二常闭 two NC	
	5: 黄 yellow	5: 常开+常闭 NO+NC	
	6: 蓝 blue		
S: 蘑菇头自锁, 转动复位 S: Mushroom self-lock reset after turning	4: Φ 30 5: Φ 40	4: 红 red	2: 常闭 NC
	6: Φ 60 1'' $\ominus$ 40(钥匙复位)		
D: 短柄旋钮 D: Short handle turn button	2: 二位置锁定 Two position lock	1: 常开 NO	
J: 长柄旋钮 J: Long handle turn button	3: 三位置锁定 Three position lock	2: 常闭 NC	
G: 钥匙钮 G: Key button	4: 二位置复位 Self reset on the two position	3: 二常开 Two NO	—
	5: 三位置复位 Self reset on the three position	4: 二常闭 Two NC	
		5: 常开+常闭 NO+NC	
W3: 带灯按钮 W3: Pushbutton with light	1: 白 white 5: 黄 yellow	6: 直接式	1: 常开 NO
	3: 绿 green 6: 蓝 blue	6'' Flat type	2: 常闭 NC
	4: 红 red		3: 二常开 Two NO
			4: 二常闭 Two NC
			5: 常开+常闭 NO+NC
L8: 双位按钮 L8: two position pushbutton	3: 一般钮	6: 直接式	5: 常开+常闭
W8: 双位带灯按钮 W8: Two position pushbutton with light	3'' Push button	6'' Flat type	5'' NO+NC
	4: 一般钮+高钮		
	4'' Push button+high button		
V: 信号灯 V: Signal lamp	6: 直接式	1: 白 white 3: 绿 green	
	6'' Flat type	4: 红 red 5: 黄 yellow	—
		6: 蓝 blue 7: 透明 clarity	
K: 带灯旋钮 K: Turn button with light	2: 二位置锁定 Two position lock	1: 白 white 3: 绿 green	1: 常开 NO 3: 二常开 Two NO
	3: 三位置锁定 Three position lock	4: 红 red 5: 黄 yellow	2: 常闭 NC 4: 二常闭 Two NC
		6: 蓝 blue	5: 常开+常闭 NO+NC
BE: 附件(无结构分类) Annex (no structure & class)	101: 常开接触组 NO contact group	—	—
	102: 常闭接触组 NC contact group		

结构与性能

Structure & character

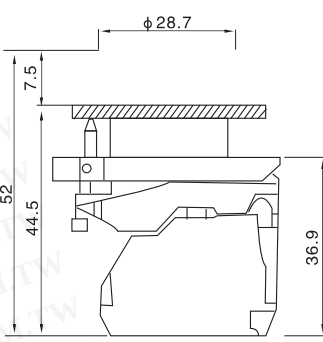
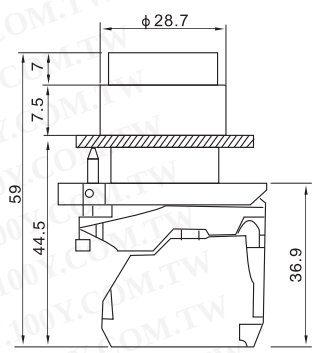
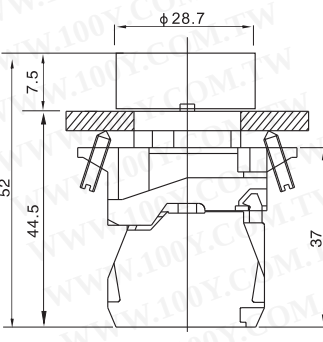
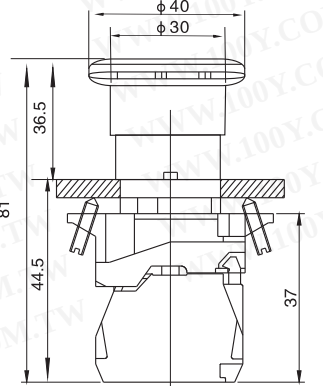
- 1、金属式按钮采用防窜动操作头, 按钮不能从正面拆下;
 - 2、所有触点都有切换电路和自洁的双重作用, 在低电压和小电流(5V, 5mA)使用中仍然能保证接触的可靠性;
 - 3、常开与常闭接触组互相独立, 使用时可按需要进行组合, 便于更换;
 - 4、隐蔽式接线端子, 更加安全可靠。金属头式按钮操作头及其基座采用锌铝合金, 外型美观, 坚固;
 - 5、带灯按钮及信号灯统一采用BA9s灯座, 可按需要选用不同灯源。
1. Metal pushbutton use anti-drunkness operation head, you can't tear it down from front.
 2. All the contacts hae both functionsof alternatong circuit and self-cleanliness. It can keep stability in low-voltage and small current 15V, 5mA.
 3. No and NC contact group ane independant, you can conbinate them while using them.
 4. Connecting terminal are very safe. Metal operation pushbutton and it base are beautiful and firm because their materials are allumden.
 5. Pushbutton with light and indicator use Ba9s lamp holder, we can use different light source for different demand.

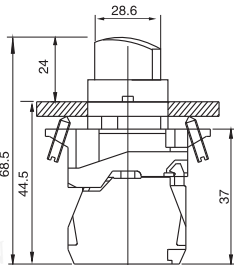
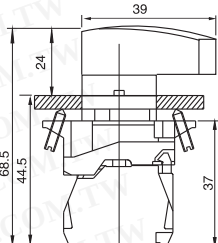
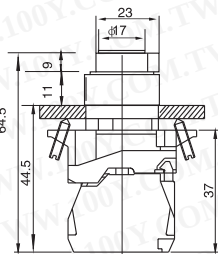
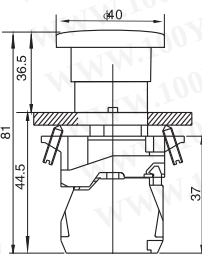
此系列产品已向中华人民共和国知识产权局申请专利实用新型 申请号为:200620138333.1 外观设计 申请号为:200630146076.1
This series of products has patented for utility model to the Knowledge product bureau of the People's Republic of China, the application number is 200620138333.1
The appearance design application number is 200630146076.1

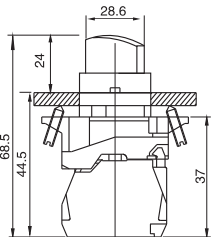
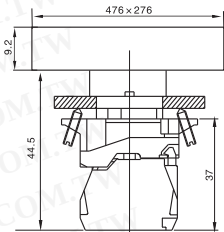
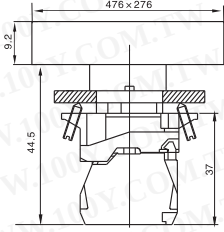
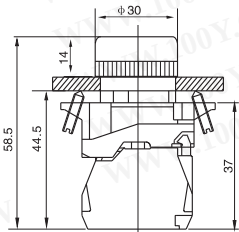
外形图 Outline	功能 Function	型号 Model	颜色 Color	外形尺寸 Overall dimension
 一般按钮 Push button	瞬动型 Instantaneous type	SKB ₁ -BA21 SKB ₁ -BA31 SKB ₁ -BA42 SKB ₁ -BA51 SKB ₁ -BA61 SKB ₁ -BA25 SKB ₁ -BA35 SKB ₁ -BA45	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
 高位按钮 High-order button	瞬动型 Instantaneous type	SKB ₁ -BL21 SKB ₁ -BL31 SKB ₁ -BL42 SKB ₁ -BL51 SKB ₁ -BL61 SKB ₁ -BL25 SKB ₁ -BL35 SKB ₁ -BL45	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
 一般按钮(带防护罩) Push button (Atansparent silica gel cover)	瞬动型 Instantaneous type	SKB ₁ -BP21 SKB ₁ -BP31 SKB ₁ -BP42 SKB ₁ -BP51 SKB ₁ -BP61 SKB ₁ -BP25 SKB ₁ -BP35 SKB ₁ -BP45	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	
 蘑菇按钮 Mushroom push button 自锁蘑菇按钮为推拉式	瞬动型 Instantaneous type	SKB ₁ -BC21 SKB ₁ -BC31 SKB ₁ -BC42 SKB ₁ -BC51 SKB ₁ -BC61	● 红 R ● 绿 G ● 黄 Y	

说明 Remarks

1、如需自锁请在型号后加“T”；

外形图 Outline	功能 Function	型号 Model	颜色 Color	外形尺寸 Overall dimension
 一般钮带标识 Push button With synbol logo	瞬动型 Instantaneous type	SKB ₁ -BA3311 SKB ₁ -BA4322	● 绿 G ● 红 R	
 一般钮带标识 Push buttonWith synbol logo	瞬动型 Instantaneous type	SKB ₁ -BA3341 SKB ₁ -BA3351	○ 白 W ↑ or ↓ ● 黑 K ↑ or ↓	
 带灯按钮 Push button with light	瞬动型 Instantaneous type	SKB ₁ -BA3361 SKB ₁ -BA3462	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W	
 紧急按钮 Emergency push button	按锁定， 顺时针，转复位 Push locking, in clockwise direction, move reset	SKB ₁ -BS542	不透明 Opacity ● 红 R	

外形图 Outline	功能 Function	型号 Model	颜色 Color		外形尺寸 Overall dimension
 旋钮 Turn button	二位置 Two-position 三位置 Three-position	SKB ₁ -BD21 SKB ₁ -BD25 SKB ₁ -BD33	● 黑 K	手柄位置 Handle position 	
 长柄旋钮 Turn button with long handle	二位置 Two-position 三位置 Three-position	SKB ₁ -BJ21 SKB ₁ -BJ25 SKB ₁ -BJ33	● 红 R ● 绿 G ● 黄 Y		
 钥匙钮 Key button	二位置 Two-position 三位置 Three-position	SKB ₁ -BG21 SKB ₁ -BG25 SKB ₁ -BG33		取出位置 Removable position 	
 钥匙紧急按钮 Emergency push button with key	按锁定， 顺时针， 钥匙旋转复位 Push locking, in clockwise direction, key turn to reset	SKB ₁ -BS142	● 红 R	a 或 au a 或 ao 或 au	

外形图 Image	功能 Function	型号 Model	颜色 Color	手柄位置 Handle position	外形尺寸 Overall dimension
 带灯旋钮 Turn button with light	自锁 Self-locking	SKB ₁ -BK21	● 红 R ● 绿 G ● 黄 Y	手柄位置 Handle position L R	
 双位按钮 Double push button	瞬动型 Instantaneous type	SKB ₁ -BL8325	● / ● 红 / 绿 R / G		
 双位带灯按钮 Double push button with light	瞬动型 Instantaneous type	SKB ₁ -BW8365	● / ● 红 / 绿 R / G	灯电压 light voltage	
 信号灯 Indicator lamp	信号灯 Indicator lamp	SKB₁-BV61 SKB₁-BV62 SKB₁-BV63 SKB₁-BV64 SKB₁-BV65	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W	灯电压 light voltage	

SKB2-BA 一般按钮 SKB2-BA Push button	SKB2-BC 蘑菇按钮 SKB2-BC Mushroom pushbutton	SKB2-BS 紧急按钮 SKB2-BS Emergency push button	SKB2-BD 短柄旋钮 SKB2-BD Short handle knob	SKB2-BJ 长柄旋钮 SKB2-BJ Long handle tun button
 SKB2-BA21 SKB2-BA31 SKB2-BA42 SKB2-BA51 SKB2-BA61	 SKB2-BC21 SKB2-BC31 SKB2-BC42 SKB2-BC51	 SKB2-BS542	 SKB2-BD21 SKB2-BD25 SKB2-BD33	 SKB2-BJ21 SKB2-BJ25 SKB2-BJ33
SKB2-BG 钥匙按钮 SKB2-BG Key push button	SKB2-BW3 带灯按钮 SKB2-BW3 Push button with light	SKB2-BV 信号灯 SKB2-BV Indicator lamp	SKB2-BW8 两位带灯按钮 SKB2-BW8 Two-position push button with light	SKB2-BE 附件 SKB2-BE Annex
 SKB2-BG21 SKB2-BG25 SKB2-BG33	 SKB2-BW3361 SKB2-BW3461 SKB2-BW3561 SKB2-BW3371 SKB2-BW3471 SKB2-BW3571	 SKB2-BV63 SKB2-BV64 SKB2-BV65 SKB2-BV73 SKB2-BV74 SKB2-BV75	 SKB2-BW8465 SKB2-BW8475	 SKB2-BE101 SKB2-BE102

一般按钮 Push button	一般按钮带标识 Push buttonWith synbol logo	一般按钮带标识 Push button With synbol logo	一般按钮(带防护罩) Push button(Atansparent silica gel cover)
 SKB4-BA21 SKB4-BA31 SKB4-BA51 SKB4-BA61 SKB4-BA42	 SKB4-BA4322 SKB4-BA4342	 SKB4-BA3311 SKB4-BA3361	 SKB4-BP21 SKB4-BP31 SKB4-BP51 SKB4-BP61 SKB4-BP42
短柄旋钮 Short handleTurn button	长柄旋钮 Long handleTurn button	高位按钮 High push button	一般按钮带标识 Push buttonWith synbol logo
 SKB4-BD21 SKB4-BD25 SKB4-BD33	 SKB4-BJ21 SKB4-BJ25 SKB4-BJ33	 SKB4-BL21 SKB4-BL31 SKB4-BL51 SKB4-BL61 SKB4-BL42	 SKB4-BA3341 SKB4-BA3351
高位按钮带标识 High push buttonWith synbol logo	蘑菇按钮 Mushroompush button φ 40	紧急按钮 Turn to releasepush button φ 40	自锁按钮 Push-pullMotion touchingof φ 40
 SKB4-BL4322 SKB4-BL4342	 SKB4-BC21 SKB4-BC31 SKB4-BC42	 SKB4-BS542	 SKB4-BT42
钥匙按钮 Key push button	带灯按钮 Push button with light	带标识不带灯两位按钮 Marked without pilot light1 flush green push button 1 projecting red push button marked	信号灯 Indicator Light
 SKB4-BG21 SKB4-BG25 SKB4-BG33	 SKB4-BW31M5 SKB4-BW33M5 SKB4-BW35M5 SKB4-BW36M5 SKB4-BW34M5	 SKB4-BL845 SKB4-BL945	 SKB4-BV41 SKB4-BV43 SKB4-BV44 SKB4-BV45 SKB4-BV46

此系列型号含义等同于SKB1 The means of this type equal to SKB1

高强度抗破坏金属按钮产品特点与结构及性能

The high-intensity resistance to damage the metal push button product features and the structure and performance

LAY50系列金属按钮外观大方、安装方便、结构可靠；产品广泛应用于各类控制台、控制箱（柜）、配电箱（柜）、各类仪器仪表、精密机械、安防控制系统、消防控制系统等。

产品采用坚固耐用的金属操作头部，抗冲击性与抗震动性能更突出；材质有黄铜镀镍、不锈钢可选。

头部防护防水等级达到IP60以上，部分产品可达到IP65。

开关元件全部采用蠕动型结构设计，内含触点自洁功能，可靠性强。

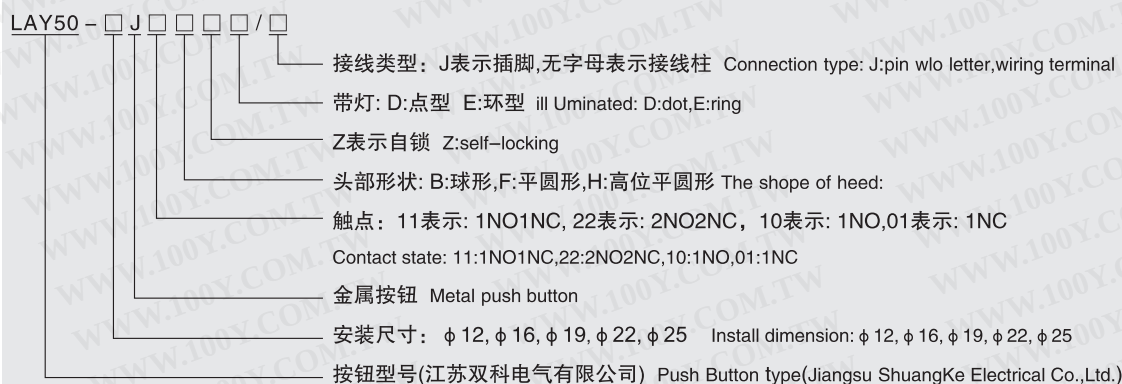
LAY50 series of metal push buttons have generous appearance, easy installation, reliable structure; products are widely used in various types of consoles, control box (cabinet), power distribution box (cabinet), various types of instrumentation, precision machinery, security control systems, fire control systems, etc.

The product uses a rugged metal operating head, impact resistance and anti-vibration performance; material are made of brass nickel-plated, stainless steel optional.

Head protection waterproof rating reach IP60 or more, some products can reach IP65.

Switching elements used in all the peristaltic structural design, containing the contact self-cleaning function, high reliability.

型号及其含义 Model and implication



主要技术参数 Main technological parameter

材料 Material	灯罩 lampshade	聚碳酸酯 Polycarbonate	面板厚度 Panel thickness	1~10mm
	外壳 Shell	黄铜镀镍/不锈钢 Nickel-plated brass stainless steel	螺母扭矩 Nut torque	5~14Nm
	基座 Base	PA66	操作压力 Operating pressure	约2N
	灯珠类型 Lamp Bulb type	LED	操作行程 Operating stroke	约1.5mm
灯珠参数 Lamp Bulb parameter	额定电压 Rated Vdtage	6V/12V/24V/36V	防护等级 Level of protection	IP65
	额定电流 Rated Current	15mA	材料 Material	触点 Contacts
	灯珠颜色 Color	R G Y O B W	按钮 Button	银合金 Silver alloy
	灯珠寿命 Life	50000小时	外壳 Shell	不锈钢/黄铜(镀镍) Stainless steel / brass (nickel plated)
接触电阻 Contact resistance	≤50mΩ		基座 Base	PA66
绝缘电阻 Insulation resistane	≥1000MΩ			
绝缘强度 Insulating strength	2000VAC			
环境温度 Ambient temperature	-20℃~+85℃			
机械寿命 Mechanical life	50万次以上			
电气寿命 Electrical life	5万次			

φ 8、φ 12 系列金属按钮			
			
LAY50-8J-D	LAY50-12J-10B	LAY50-12J-10H	
			
LAY50-12J-10HE/J	LAY50-12J-10F/J	LAY50-12J-10H/J	

φ 16 系列金属按钮			
			
LAY50-16J-10H	LAY50-16J-10F	LAY50-16J-10B	LAY50-16J-D
			
LAY50-16J-11F/J	LAY50-16J-11HD/J	LAY50-16J-11FE/J	LAY50-16J-11H/J
			
LAY50-16J-11HE/J	LAY50-16J-10FD/J	LAY50-16J-10FE/J	LAY50-16J-10B/J

注：订货时带灯型请注明颜色、电压。

订货时如需自锁请注明

Note: Lamp type when ordering please specify color and voltage.

When ordering For more information please indicate the self-locking

φ 19系列金属按钮

				
LAY50-19J-11FD/J	LAY50-19J-11F/J	LAY50-19J-11FE/J	LAY50-19J-11H/J	LAY50-19J-10F
				
LAY50-19J-10B	LAY50-19J-10H	LAY50-19J-10F/J	LAY50-19J-11B/J	LAY50-19J-10H/J

φ 22系列金属按钮

			
LAY50-22J-11FE/J	LAY50-22J-11FZE/J	LAY50-22J-11FD/J	LAY50-22J-11FZD/J
			
LAY50-22J-11H/J	LAY50-22J-11F/J		

φ 25系列金属按钮

			
LAY50-25J-11FE/J	LAY50-25J-11FZE/J	LAY50-25J-11FD/J	LAY50-25J-11F/J

注：订货时带灯型请注明颜色、电压。

订货时如需自锁请注明

Note: Lamp type when ordering please specify color and voltage.

When ordering For more information please indicate the self-locking

型号及含义 Model and implication



表示常闭触头数 Indicates normally closed contact quantity

表示常开触头数 Indicates normally open contact quantity

表示头部形状,“Y”为圆形,“F”为方形,“J”为矩形,“M”为蘑菇型,“DF”为大方形,“DJ”为大矩形。

The shape of head end “Y” is circular; “F” is square; “J” is rectangle; “M” is mushroom model; “DF” is big square; “DJ” big rectangle

表示颈部尺寸,用8、12、16表示,单位mm

Indicates neck dimension,indicated by 8、12、16unit mm.

按钮型号(由上海电器科学研究所发放,上海双科电气有限公司专用)

Type (approved by Shanghai Electrical Appliance Scientific Research Institution, monopoly for Shanghai Shuangke Electrical CO. LTD)

性能特征 Performance feature(φ 16)

标准使用环境	周围温度: -25 ~ +55 (无结冰) 操作温度: 45 ~ 85%RH (无凝结)
接触电阻	≤50mΩ
绝缘电阻	≥100MΩ
触点与灯珠引脚之间	2000V交流50赫兹, 1分钟
同级端子之间	1000V交流50赫兹, 1分钟
不同电极端子之间	2000V交流50赫兹, 1分钟
耐振动性	50赫兹, 振幅约1.2mm
耐冲击性	大于10m/S ² (10G)
机械寿命	瞬时型按钮20万次,其它10万次
电气寿命	瞬时型按钮10万次,其它5万次
接线	焊接线直径:2.0×0.8mm最大, 铜钱面积:0.75mm ² 接线插:2.8×0.5mm
防护等级	IP40密封型 (外加防护罩可达IP67)

触头额定值 Contact ratings(φ 16)

额定	最大电压		AC/DC		
	发热电流		3A		
	工作电源		24V	110V	220V
	AC	阻性	2A	1.5A	1A
		感性	2A	1A	0.7A
	DC	阻性	1.0A	0.5A	0.2A
		感性	0.7A	0.2A	0.1A
	触点材料		镀金银触点		

LED性能特点 LEDperformance characteristics(φ 16)

工作电压	6V	12V	24V	110V	220V
允许电压波动	±5%	±5%	±10%	±20%	±20%
光源	LED	LED	LED	LED	LED
颜色	R、G、Y、B、W、PW、PG、	R、G	R、G		
工作电流	20mA	15mA	13mA	1.4mA	0.8mA
工作寿命	3万小时	3万小时	3万小时	3万小时	3万小时

性能特征 Performance feature(φ 8、φ 12)

	工作环境温度	-15~+55℃
	操作湿度	45-85%RH(无结露)
	接触电阻	≤50mΩ
	绝缘电阻	≥100mΩ
耐压	触点与灯珠端子之间	1500VAC
	同极端子之间	1000VAC
	不同电极端子之间	2000VAC
寿命	机械寿命	自复15万次，自锁10万次
	电气寿命最大电	10万次以上

开关额定值 Rated value of switch(φ 8、φ 12)

连续工作电流	Ith2 3A温度不超过最大额定值所允许的连续工作电流		
额定电压	24V	125V(110V)	250V(220V)
直流	1A	0.2A	0.1A
交流	P.F=1	1A	0.5A
	P.F=0.7	0.7A	0.5A

灯珠规格 Specification of light ball(φ 8、φ 12)

灯珠种类	LED灯珠			
额定电压	AC/DC6V	AC/DC12V	AC/DC24V	AC/DC110V AC/DC220V
发光颜色	红	LAS2D/6/R LAS2D/12/R	LAS2D/12/R	LAS2D/110/R LAS2D/220/R
	绿	LAS2D/6/G LAS2D/12/G	LAS2D/12/G	LAS2D/110/G LAS2D/220/G
	黄	LAS2D/6/Y LAS2D/12/Y	LAS2D/12/Y	LAS2D/110/Y LAS2D/200/Y
	橙	LAS2D/6/A LAS2D/12/A	LAS2D/12/A	LAS2D/110/A LAS2D/200/A
	蓝	LAS2D/6/B LAS2D/12/B	LAS2D/12/B	LAS2D/110/B LAS2D/200/B
	白	LAS2D/6/W LAS2D/12/W	LAS2D/12/W	LAS2D/110/W LAS2D/200/W
外壳颜色	红	黄	白	红 白
寿命	约4000小时			

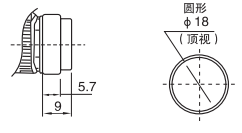
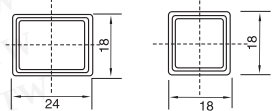
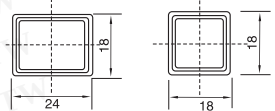
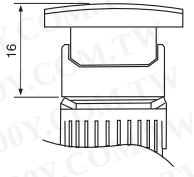
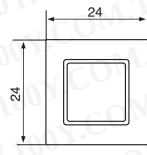
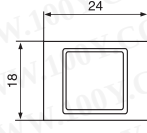
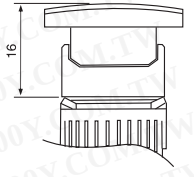
注: 灯珠内置保护电阻, 不需外接。其他电压规格可按要求定制。

Note: light ball is put inside, and is not needed to connect outside.

Other voltg specification can be made according with demand.

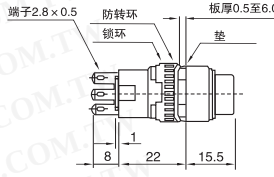
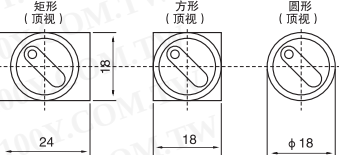
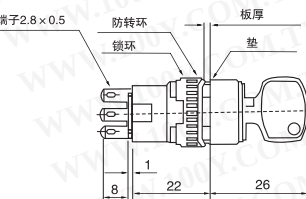
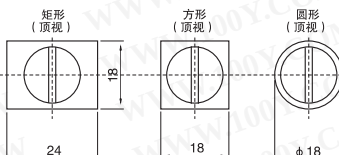
一般按钮、带灯按钮、指示灯、蘑菇按钮、紧急按钮

Common push button、Push button with light、indicator light、Emergency push button

功能 Function	型号 Model	灯电压 Light valtage	颜色 Color	
 圆形 Circular	指示灯 Pilot light LAY50-16AY-D LAY50-16AF-D LAY50-16AJ-D			
 方形 Square	瞬动 Lntantaneous type LAY50-16AY-□/□ LAY50-16AF-□/□ LAY50-16AJ-□/□		● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K 透明 T 注: 黑色 按钮不用 于带灯 Note: black button cover is not used with light	
 矩形 Rectangular	自锁 Self-locking type LAY50-16AY-□T/□ LAY50-16AF-□T/□ LAY50-16AJ-□T/□	DC.AC 6V		
 蘑菇按钮 Mushroom push button	瞬动 Lntantaneous type LAY50-16AM-□/□ LAY50-16ADF-□/□ LAY50-16ADJ-□/□	DC.AC 12V DC.AC 24V DC.AC 220V		
 大方形 Big Square	自锁 Self-locking type LAY50-16AM-□T/□ LAY50-16ADF-□T/□ LAY50-16ADJ-□T/□		● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K 透明 T 注: 黑色 按钮不用 于带灯 Note: black button cover is not used with light	
 大矩形 Big Rectangular				
 紧急按钮 Emergency push button	工作状态 Working state 按下锁定右旋复位 Press locking Reset right on the LAY50-16AY-□Z		● 红 R ● 绿 G	

旋钮、钥匙钮、蜂鸣器

Turn button、Key push button、Buzzer

	工作状态 Working state	型号 Model	颜色 Color	
 圆形 Circular  方形 Square  矩形 Rectangular	 90° 二位置  45° 三位置  90° 二位置  45° 三位置  90° 二位置  45° 三位置	LAY50-16AY-□X/□ LAY50-16AF-□X/□ LAY50-16AJ-□X/□ LAY50-16AY-22XS/□ LAY50-16AF-22XS/□ LAY50-16AJ-22XS/□	● 红 R ● 绿 G ● 黑 B	 
 圆形 Circular  方形 Square  矩形 Rectangular	 90° 二位置  45° 三位置  90° 二位置  45° 三位置  90° 二位置  45° 三位置	LAY50-16AY-□Y LAY50-16AF-□Y LAY50-16AJ-□Y LAY50-16AY-22YS LAY50-16AF-22YS LAY50-16AJ-22YS	钥匙取出位置 Key removable position 二位置钥匙，钥匙在两个位置均可拔出。三位钥匙钮有两种类型： 1. 钥匙在中间位置可拔出； 2. 钥匙在三个位置均可拔出。 Key two-position, which can be taken out in two positions Key three-position has two types: 1. Key is taken out in middle 2. Key is all taken out in three positions	 


 圆形
Circular
LAY50-15AY-B

 方形
Square
LAY50-16AF-B

 矩形
Rectangular
LAY50-16AJ-B

 蜂鸣器分长音和间断音两种
 音量:10CM/80分贝
 电压范围:AC.DC 6V-48V
 AC 110V-220V

产品简介 Introduction of product

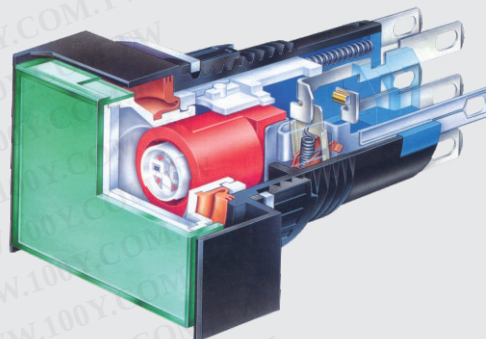
LAY50-8A、12A、16A微型按钮是上海双科电气有限公司继LAY50-22(A, B, C)系列按钮之后推出的又一系列产品。

LAY50-8A、12A、16A微型按钮以独特的精美操作机构为特点,其开关操作瞬动柔和,短体操作开关使用可靠的镀金银触点,使用寿命长。

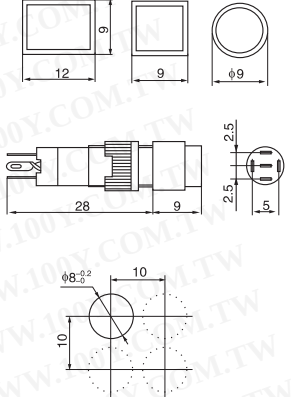
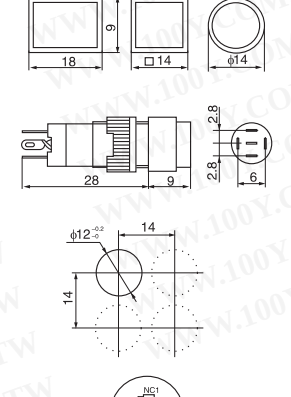
产品适用于数控机床、机械、电力、电讯、自动化设备、仪器等电气控制电路中作控制信号联锁等使用。

LAY50-8A、12A、16A mini button is a new series product succeeding series. LAY50-22(A,B,C)button pushed by Shanghai Shuangke Electric Co.,Ltd. Because the LAY50-8A、12A、16A mini button has the characteristics of the unique and fine operation mechanism, the instantaneous release of switch operation is soft, For the short-body operation switch uses reliable vermeil as contact, the service life is long.

The product is suitable for controlling the interlocking of indicating light and in the electric controlling circuit such as numerically-controlled machine tool, mechanism, power, telecommunication, automated equipment, instrument and so on.



带灯按钮、按钮、指示灯 Push button with light, Push button, pilot light(φ8、φ12)

功能 Function	型号 Model	灯电压 Light voltage	颜色 Color	
 圆形 Circular	信号灯 Pilot light LAY50-8AY-D/□ LAY50-8AY-11/□ LAY50-8AY-11T/□ LAY50-8AY-11D/□ LAY50-8AY-11TD/□	DC.AC 6V DC.AC 12V DC.AC 24V	● 红-R ● 绿-G ● 黄-Y ● 蓝-B ○ 白-W	
 方形 Square	自复位 Self-reset LAY50-8AF-D/□ LAY50-8AF-11/□ LAY50-8AF-11T/□ LAY50-8AF-11D/□ LAY50-8AF-11TD/□			
 矩形 Rectangular	自锁式 Self-locking type LAY50-8AJ-D/□ LAY50-8AJ-11/□ LAY50-8AJ-11T/□ LAY50-8AJ-11D/□ LAY50-8AJ-11TD/□			
 圆形 Circular	信号灯 Pilot light LAY50-12AY-D/□ LAY50-12AY-□/□ LAY50-12AY-□T/□ LAY50-12AY-□D/□ LAY50-12AY-□TD/□	DC.AC 24V	● 红-R ● 绿-G ● 黄-Y ● 蓝-B ○ 白-W	
 方形 Square	自复位 Self-reset LAY50-12AF-D/□ LAY50-12AF-□/□ LAY50-12AF-□T/□ LAY50-12AF-□D/□ LAY50-12AF-□TD/□			
 矩形 Rectangular	自锁式 Self-locking type LAY50-12AJ-D/□ LAY50-12AJ-□/□ LAY50-12AJ-□T/□ LAY50-12AJ-□D/□ LAY50-12AJ-□TD/□			

斜线前的□填写常开, 常闭的触点数, 斜线后的□填写颜色。

Filling in normal open and close number in front of □, color in back of □.

型号及含义 Model and implication

LAY50 -- 1 2 3 -- 4 5 6 / 7 8 9 TH

表示常闭触头数 Indicates normally closed contact quantity

表示常开触头数 Indicates normally open contact quantity

对 ϕ 22/25、30系列按钮，表示触点方式，“Q”表示弹片快动式，“P”表示平压慢动式。
 ϕ 22/25、30 series of push button indicates contact “Q” is shrapnel quick type “P” is flat crushing slow type.

分别填A、B、C、D、SKB表示LAY50系列的七种外观结构风格

A、B、C、D、SKB can be separately indicate five kinds of appearance styles of series LAY50

注：A型头部和联络件可根据不同的要求随意组合，详见安装结构图。

The head for A type and connection are in any combination ways according the special request.
Details refer installation structure block.

表示颈部尺寸，用22/25、30表示，单位mm

Indicates neck dimension, indicated by 22/25、30, unit mm.

按钮型号(由上海电器科学研究所发放，上海双科电气有限公司专用)

Type (approved by Shanghai Electrical Appliance Scientific Research Institution,
monopoly for Shanghai Shuangke Electrical CO. LTD)

按钮功能 Function of push button

字母 Letter	含义 Implication	字母 Letter	含义 Implication
	一般按钮 Push button	Z	紧急按钮 Emergency push button
D	带灯按钮 Push button with light	Y	二位置钥匙按钮 Two-position key push button
H	高位按钮 High button	YS	三位置钥匙按钮 Three-position key push button
S□	符号按钮，内填符号序号 Sign push button, is filled with symbol order number	ZY	钥匙紧急按钮 Key emergency push button
T	自锁按钮 Mushroom push button	XD	二位置带灯按钮 Two-position turn button with light
X	短柄二位置按钮 Short-handle two-position turn button	XDS	三位置带灯按钮 Three-position turn button with light
XS	短柄三位置按钮 Short-handle three-position turn button	R	双位按钮 Double position push button
CX	长柄二位置按钮 Long-handle two-position turn button	RD	双位带灯按钮 Double position push button
CXS	长柄三位置按钮 Long-handle three-position turn button	J	经济型按钮 Economize push button
M	蘑菇按钮 Self-locking mushroom push button	JX	两位经济型按钮 Two Economize turn button
MT	蘑菇自锁按钮 Self-locking mushroom push button	JXS	三位经济型按钮 Three Economize turn button

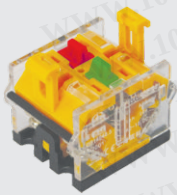
表示钮片颜色 Indicates colors of the push-button pieces

R	G	Y	O	B	W	K	T
红 Red	绿 Green	黄 Yellow	橙 Orange	蓝 Blue	白 White	黑 Black	透明 Transparent

技术性能参数 Technical performance parameter

使用条件 Serviceconditions	工作温度 Operation temperature	使用类别 Operation category		污染等级 Pollution class	安装高程 Installation Height	抗振动 Vibration Durability	
	+55℃~ - 25℃	AC15	DC13	3	2000m	10~200Hz 1mn.10g	
控制能力 Control ability	交流 AC			直流 DC			
	额定工作电压Ue Rated operation voltage	额定工作电流Ie Rated operation current		额定工作电压Ue Rated operation voltage		额定工作电流Ie Rated operation current	
		弹片式	平压式	平压式	弹片式	平压式	弹片式
	500V	2	2.3	110V		1A	1.2
	380V	4	4.5	48V		3A	3.6
	220V	5.5	6.5	24V		6A	7.2
额定值 Rated value	额定绝缘电压 Ui Rated insulation voltage AC 660V50Hz 约定发热电流 Ith Conventional heating current 10A						
使用寿命 Operation life	机械寿命 Mechanical life				电寿命 Electrical life		
	一般钮 Common push button			3 × 10 ⁶		交流电寿命 120 × 10 ⁴ 次	
	旋钮 Turn button			30 × 10 ⁴		AC electrical life 120 × 10 ⁴ times	
	钥匙钮 Key push button			5 × 10 ⁴		直流电寿命 60 × 10 ⁴ 次	
	紧急钮 Emergency push button			5 × 10 ⁴		DC electrical life 60 × 10 ⁴ times	
接触电阻 Contact resistance	≤50mΩ						
前部防护等级 Protective class	IP40 (A.B.C型 加防水罩可达IP67)				IP65 (D型)		

开关元件触点状态 Contact state of the switch element



状态 State					
触点代码 Contact code	01	10	02	20	11
	一闭 One colse	一开 One open	二闭 Two colse	二开 Two open	一开一闭 One open One close

平压式触点是我厂新推出的一种产品，相对于弹片式触点能够承受更大的电流。

Slow action contact is new product in our company, which can burden stronger current when comparing with snop action contact.

旋钮钥匙动作位置及钥匙拨出位置

Operation position of the key of turn push button and pulling out position of the key of turn push button

F	Fu	ffu	a	ao	au
左边自复位	右边自复位	左右自复位	左边拨出	中间拨出	右边拨出
Self reset on the left	Self reset on the right	Selfreset on the left and right	Pulling out on the left	Pulling out in the middle	Pulling out on the right

带灯按钮指示灯规格 Specification of Indicator push button with light



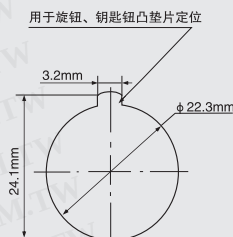
光源 Light source	发光二极管 Luminous diode LED									
代码 Code	21	22	23	24	25	26	27	28	31	32
电源 Power supply	AC/DC							DC	AC	
电压 (V) Voltage	6	12	24	36	48	110	127	220	220	380

TH 表示湿热型 Indicates tender-heat type

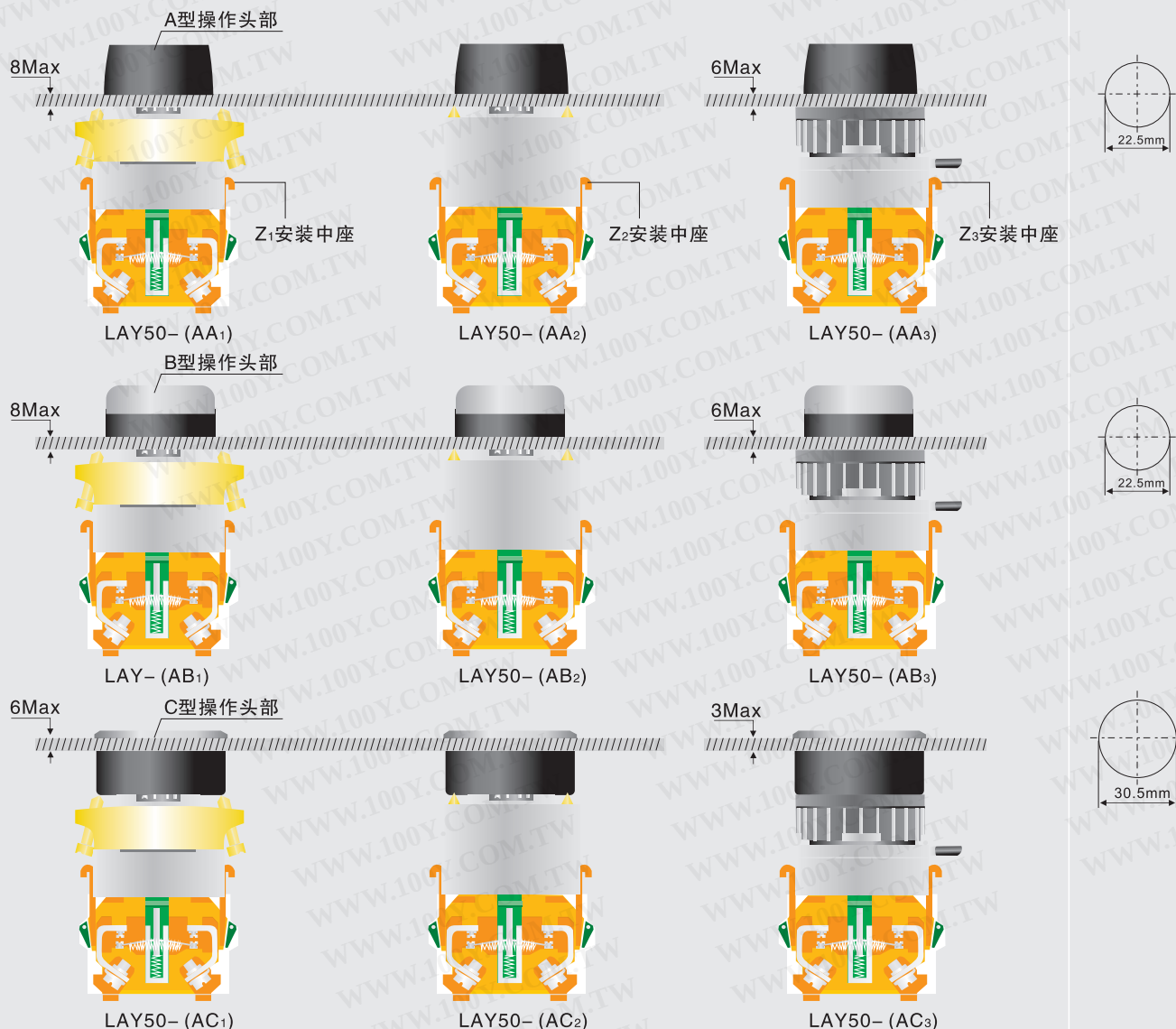
特点

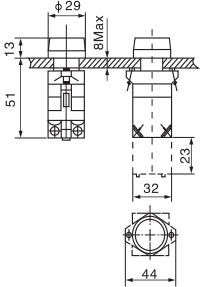
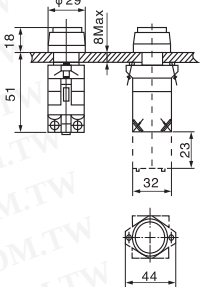
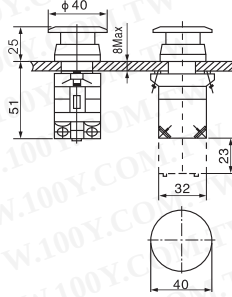
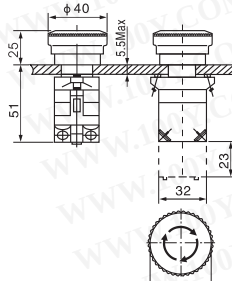
- 1.LAY50-(AA₁、AB₁、AC₁):外观轮廓鲜明,线条优美。采用斜式螺钉固定安装,继承瑞士EAO设计风格,符合欧美严谨、坚固可靠的工程设计理念。
- 2.LAY50-(AA₂、AB₂、AC₂):外观层次分明,高强度PBT塑制作与直式螺钉相组合固定,既继承了AA₁、AB₁、AC₁稳重坚固的特点,又兼顾了制造成本,是AA₁、AB₁、AC₁的简约形式,使用户又多种经济选择方案。
- 3.LAY50-(AA₃、AB₃、AC₃):采用螺帽紧固方式,朴实简洁,降低安装难度,减轻用户工作强度。受环境温度影响会降低安装可靠性,建议使用旋钮、钥匙钮等带旋转工作状态时不宜采用此安装模式。选择AC₃时不能使用旋钮,AA₃、AB₃选择使用旋钮需加挡圈,开孔形状如右图。

- 1.LAY50-(AA₁、AB₁、AC₁): Outline clear-cut appearance, graceful lines. Install and Fix by inclined-screw, Succeed to design description for EAO Switzerland, accord to occident strict and soundness of the engineering design concept.
- 2.LAY50-(AA₂、AB₂、AC₂): Well-bedded appearance, Fixed by high-strength plastic PBT production and Straight screw combination, not only inherited the AA₁, AB₁, AC₁ stable characteristics of a solid, but also take into account the cost of manufacturing, it is AA₁, AB₁, AC₁ simple form, it is a economic options for consumer.
- 3.LAY50-(AA₃、AB₃、AC₃): The use of nut fastening the way, simple and concise, reducing installation difficulty, reduce the intensity of work. But it will reduce the reliability of the installation by environmental temperature, To suggest that should not be used this install mode when the use turn button and key button of work with rotating state. it can not choice AC₃ when use turn button, To use AA₃, AB₃ turn button will be add the option of using ring, such as the right shape hole.



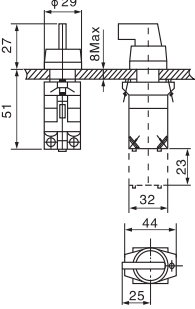
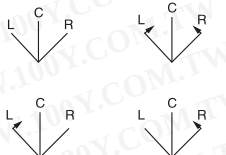
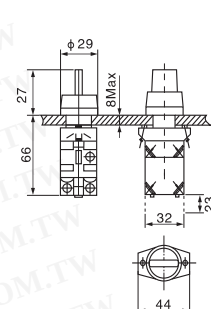
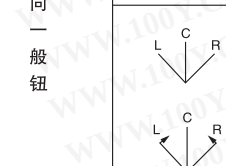
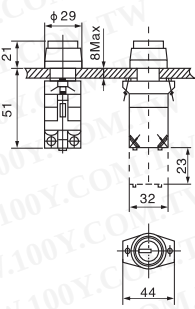
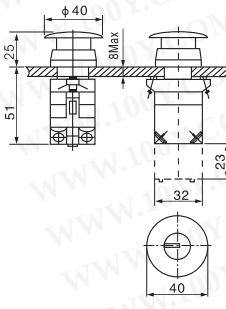
安装结构图



外形图 Overall dimension	功能 Function	型号 Model	颜色 Color	灯电压 Light voltage	外形尺寸 Overall dimension
 一般按钮 Push Button	瞬动 Instantaneous type 自锁 Self-locking type	LAY50-AA ₁ -□/□ LAY50-AA ₁ -□T/□	● 红-R ● 绿-G ● 黄-Y ○ 白-W ● 蓝-B ● 黑-K		
 高位按钮 High Button	瞬动 Instantaneous type 自锁 Self-locking type	LAY50-AA ₁ -□H/□ LAY50-AA ₁ -□HT/□	● 红-R ● 绿-G ● 黄-Y ○ 白-W ● 蓝-B ● 黑-K	有 Yes 21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
 蘑菇按钮 Mushroom push button	瞬动 Instantaneous type 自锁 Self-locking type	LAY50-AA ₁ -□M/□ LAY50-AA ₁ -□MT/□	● 红-R ● 绿-G ● 黄-Y		
 紧急按钮 Emergency push button	按压锁定， 顺时针转复位 Push locking in clockwise direction move reset	LAY50-AA ₁ -□Z	● 红-R ● 绿-G	无 No	

说明 Remarks

1. 斜线前的□填写常开常闭的触头数。
2. 斜线后的□填写颜色。
3. 带灯按钮的光源均采用高亮或纯色的LED。
4. 订货时需Z₂、Z₃中座时，即可把型号中的A₁改为A₂或A₃。选用C₃中座时安装板厚度要求变化较大，应注意。
1. Filling in normal open and close number in front of □.
2. Filling in color in back of □.
3. All with light use pure light illuminant LED light source.
4. To change A₁ to A₂ or A₃ when order if need, connection Z₂、Z₃, please note the larger changes for the thickness of installation.

外形图	功能 Function	型号 Model	颜色 Color	手柄位置 Handle position	外形尺寸 Overall dimension
 旋钮 Turn Button	二位置 Two-position	LAY50-AA ₁ -□X/ LAY50-AA ₁ -□CX LAY50-AA ₁ -□X/fu LAY50-AA ₁ -□CX/fu	● 黑-K ● 红-R ● 绿-G ● 黄-Y		
	三位置 Three-position	LAY50-AA ₁ -□XS LAY50-AA ₁ -□CXS LAY50-AA ₁ -□XS/fu LAY50-AA ₁ -□CXS/fu			
 带灯旋钮 Turn Button with Light	二位置 Two-position	LAY50-AA ₁ -□XD LAY50-AA ₁ -□XD/fu	● 红-R ● 绿-G ● 黄-Y	灯 电压 同一 般 钮	
	三位置 Three-position	LAY50-AA ₁ -□XDS LAY50-AA ₁ -□XDS/fu			
 钥匙钮 Key Push Button	二位置 Two-position	LAY50-AA ₁ -□Y			
	三位置 Three-position	LAY50-AA ₁ -□YS			
 带钥匙紧急钮 Key Emergency button	按压锁定，钥匙顺时针转复位 Push locking in clockwise direction move reset key	LAY50-AA ₁ -□ZY	● 红-R		

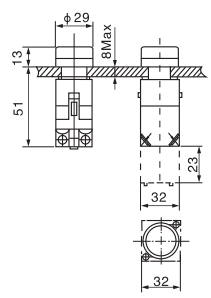
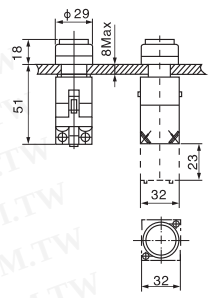
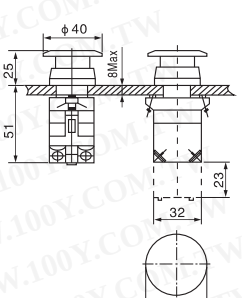
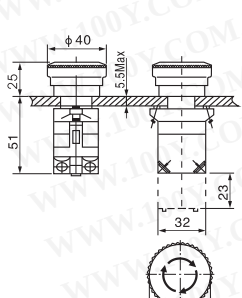
说明 Remarks

- 斜线前的□填写常开常闭的触头数。
- 无特殊说明旋钮将提供黑色，斜线后的□填写颜色。
- 带灯钮的光源均为高亮纯色的LED。
- 订货时如需B₂、C₃中座时，即可把型号中的A₁改为A₂或A₃。

注：如需φ60的蘑菇头请在型号后加“-60”，φ40的不加标注。

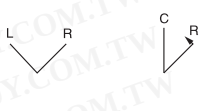
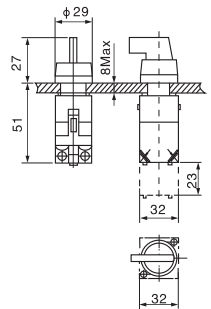
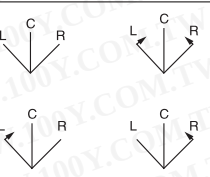
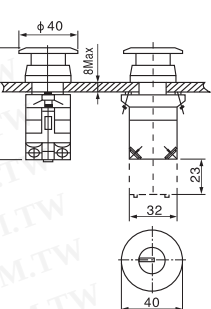
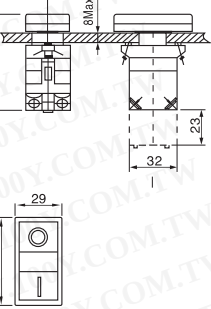
- Filling in normal open and colose number in front of □.
- Filling in color in back of ture button is black if not special request. Filling in color in back of □.
- All switch with light use pure light illuminant LED light source.
- To charge A₁ to A₂ or A₃ when order if need, connection B₂、C₃, please note the larger chornges for the thickness of installation.

Note: Please add "-60" in back of type when order φ60 mushroom push button. ● To suggest that Emergency push button use slow action contact black.

外形图	功能 Function	型号 Model	颜色 Color	灯电压 Light valtage	外形尺寸 Overall dimension
 一般按钮 Push Button	瞬动 Lntastaneous type 自锁 Self-locking type	LAY50-AB ₂ -□/□ LAY50-AB ₂ -□T/□	● 红-R ● 绿-G ● 黄-Y ○ 白-W ● 蓝-B ● 黑-K		
 高位按钮 High Button	瞬动 Lntastaneous type 自锁 Self-locking type	LAY50-AB ₂ -□H/□ LAY50-AB ₂ -□HT/□	● 红-R ● 绿-G ● 黄-Y ○ 白-W ● 蓝-B ● 黑-K	有 Yes 21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
 蘑菇按钮 Mushroom push button	瞬动 Lntastaneous type 自锁 Self-locking type	LAY50-AB ₂ -□M/□ LAY50-AB ₂ -□MT/□	● 红-R ● 绿-G ● 黄-Y		
 紧急按钮 Emergency push button	按压锁定， 顺时针转复位 Push locking in clockwise direction move reset	LAY50-AB ₂ -□Z	● 红-R ● 绿-G	无 No	

说明 Remarks

- 斜线前的□填写常开常闭的触头数。
- 斜线后的□填写颜色。
- 带灯按钮的光源均采用高亮或纯色的LED。
- 订货时如需B₁、C₁中座时，即可把型号中的B₂改为B₁或B₃。
- Filling in normal open and colose number infront of□.
- Filling in color in back of□.
- All swith with light use pure light illuminant LED light source.
- To charge B₂ to B₁ or B₃ when order if need,connection A₁、C₁, please note the larger chornges for the thickness of installation.

外形图 Appearance	功能 Function	型号 Model	颜色 Color	手柄位置 Handle position	外形尺寸 Overall dimension
 旋钮 Turn Button	二位置 Two-position	LAY50-AB ₂ -□X/ LAY50-AB ₂ -□CX LAY50-AB ₂ -□X/fu LAY50-AB ₂ -□CX/fu	● 黑-K ● 红-R ● 绿-G ● 黄-Y		
	三位置 Three-position	LAY50-AB ₂ -□XS LAY50-AB ₂ -□CXS LAY50-AB ₂ -□XS/fu LAY50-AB ₂ -□CXS/fu			
 带钥匙紧急钮 Key Emergency button	按压锁定，钥匙顺时针转复位 Push locking in clockwise direction move reset key	LAY50-AB ₂ -□ZY	● 红-R	 ao 特殊要求可订制 每个位置拔出	
 双位钮 Double push button	不带灯 双位钮 Double push button without light	LAY50-AB ₂ -□R	红/绿 R/G ● ●	灯电压 light valtage LED光源 light source 21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
	带灯双位钮 (灯珠为黄色或纯白色) Double push button with light (light ball is yellow or pure white)	LAY50-AB ₂ -□RD			

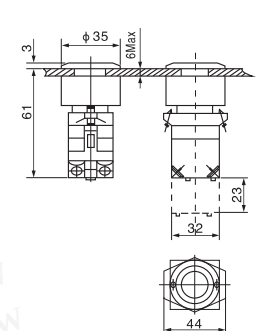
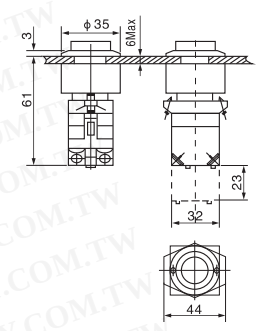
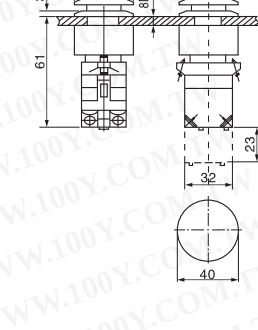
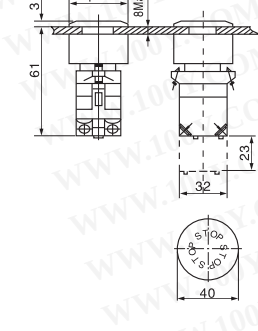
说明 Remarks

1. 斜线前的□填写常开常闭的触头数。 2. 斜线后的□填写颜色。
3. 带灯钮的光源均为高亮纯色的LED。 4. 订货时如需A₁、C₃中座时，即可把型号中的B₂改为B₁或B₃。

注：如需φ60的蘑菇头请在型号后加“-60”，φ40的不加标注。

1. Filling in normal open and colose number in front of □. 2. Filling in color in back of ture button is black if not special request. Filling in color in back of □.
3. All swith with light use pure light illuminant LED light source.
4. To charge B₂ to B₁ or B₃ when orider if need, connection A₁、C₃, please note the larger chornages for the thickness of installation.

Note: Please add "-60" in back of type when orider φ60 mushroom push bottom. ● To suggest that Emergency push button use slow action contact black.

外形图	功能 Function	型号 Model	颜色 Color	灯电压 Light voltage	外形尺寸 Overall dimension
 一般按钮 Push Button	瞬动 Instantaneous type 自锁 Self-locking type	LAY50-AC ₃ -□/□ LAY50-AC ₃ -□T/□	● 红-R ● 绿-G ● 黄-Y ○ 白-W ● 蓝-B ● 黑-K		
 高位按钮 High Button	瞬动 Instantaneous type 自锁 Self-locking type	LAY50-AC ₃ -□H/□ LAY50-AC ₃ -□HT/□	● 红-R ● 绿-G ● 黄-Y ○ 白-W ● 蓝-B ● 黑-K	有 Yes 21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
 蘑菇按钮 Mushroom push button	瞬动 Instantaneous type 自锁 Self-locking type	LAY50-AC ₃ -□M/□ LAY50-AC ₃ -□MT/□	不透明 ● 红-R ● 绿-G ● 黄-Y		
 紧急按钮 Emergency push button	按压锁定， 顺时针转复位 Push locking in clockwise direction move reset	LAY50-AC ₃ -□Z	不透明 ● 红-R ● 绿-G	无 No	

说明 Remarks

1.斜线前的□填写常开常闭的触头数。

2.斜线后的□填写颜色。

3.带灯按钮的光源均采用高亮或纯色的LED。

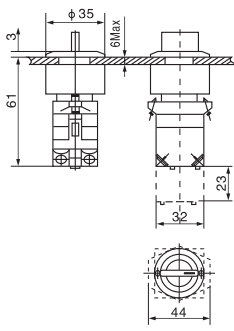
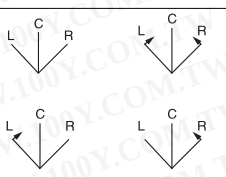
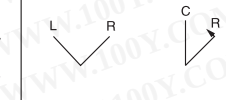
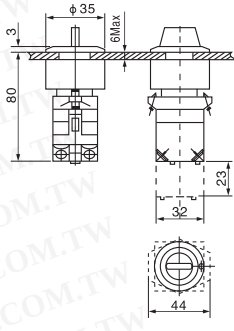
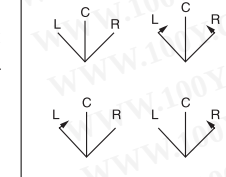
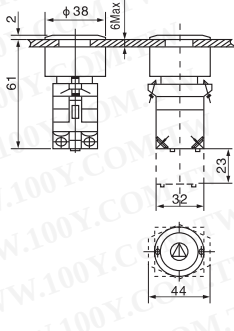
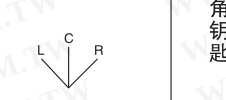
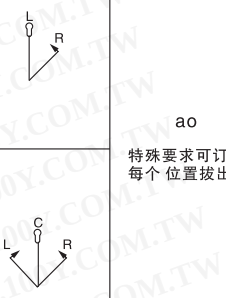
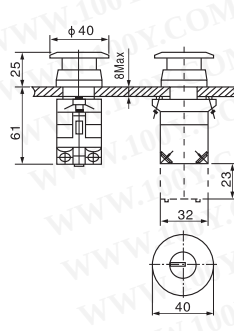
4.订货时如需A1、B2中座时，即可把型号中的C3改为C1或C2。

1.Filling in normal open and colose number in front of□.

2.Filling in color in back of□.

3.All swith with light use pure light illuminant LED light source.

4.To charge C₃ to C₁ or C₂ when order if need,connection A₁、B₂, please note the larger chornages for the thickness of installation.

外形图	功能 Function	型号 Model	颜色 Color	手柄位置 Handle position	外形尺寸 Overall dimension
 旋钮 Turn Button	二位置 Two-position	LAY50-AC ₃ -□X/ LAY50-AC ₃ -□CX LAY50-AC ₃ -□X/fu LAY50-AC ₃ -□CX/fu	● 黑-K ● 红-R ● 绿-G ● 黄-Y		
	三位置 Three-position	LAY50-AC ₃ -□XS LAY50-AC ₃ -□CXS LAY50-AC ₃ -□XS/fu LAY50-AC ₃ -□CXS/fu			
 带灯旋钮 Turn Button with Light	二位置 Two-position	LAY50-AC ₃ -□XD LAY50-AC ₃ -□XD/fu	● 红-R ● 绿-G ● 黄-Y	灯电压同一般按钮 	
	三位置 Three-position	LAY50-AC ₃ -□XDS LAY50-AC ₃ -□XDS/fu			
 钥匙钮 Key Push Button	二位置 Two-position	LAY50-AC ₃ -□Y LAY50-AC ₃ -□Y/fu			
	三位置 Three-position	LAY50-AC ₃ -□YS			
 带钥匙紧急钮 Key Emergency button	按压锁定，钥匙顺时针转复位 Push locking in clockwise direction move reset key	LAY50-AC ₃ -□ZY	● 红-R		

说明 Remarks

1. 斜线前的□填写常开闭的触头数。 2. 斜线后的□填写颜色，□填写带灯的电压等级。
3. 带灯钮的光源均为高亮白色的LED。 4. 订货时如需A1、B2中座时，即可把型号中的C3改为C1或C2。
注：如需φ60的蘑菇头请在型号后加“60”，φ40的不加标注。 ● 紧急停止按钮建议采用慢动型底座。

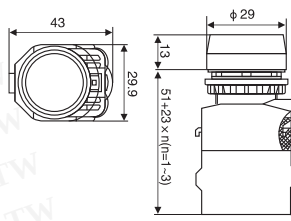
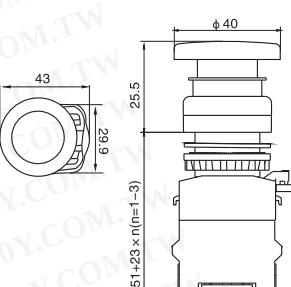
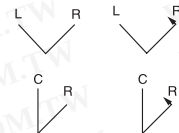
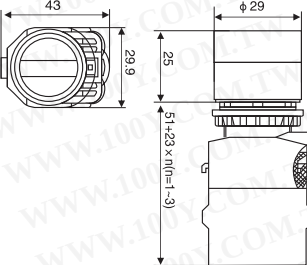
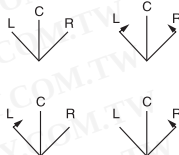
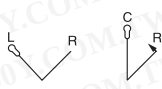
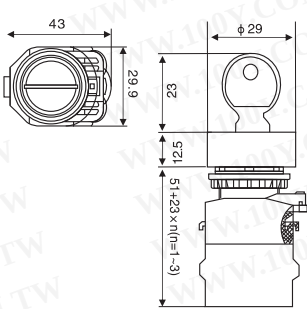
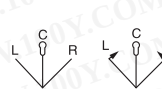
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3. All switch with light use pure light illuminant LED light source.
4. To charge C₃ to C₁ or C₂ when order if need, connection A₁、B₂, please note the larger changes for the thickness of installation.

Note: Please add "φ60" in back of type when order φ60 mushroom push button. ● To suggest that Emergency push button use slow action contact black.

LAY50-22B 系列

series

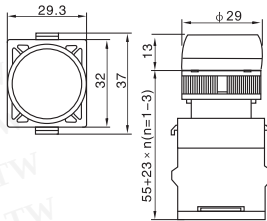
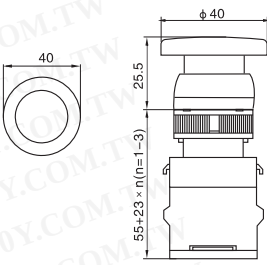
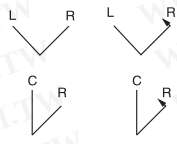
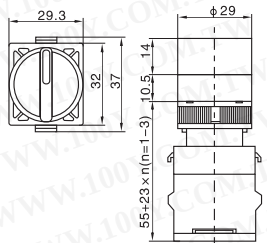
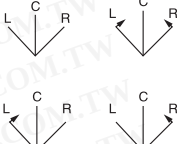
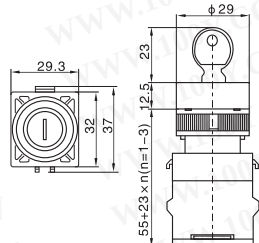
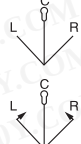
一般钮、蘑菇钮、旋钮、钥匙钮
Push button、Mushroom push button、Turn button、Key push button

外形图	功能 Function	型号 Model	颜色 Color	灯电压 Light valtage	外形尺寸 Overall dimension
 一般钮 Push button	瞬时型 Instantaneous type 自锁型 Self-locking type	LAY50-22B-□/□ LAY50-22B-□T/□	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K	有 Yes 21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
 蘑菇钮 Mushroom push button	瞬时型 Instantaneous type 自锁型 Self-locking type	LAY50-22B-□M/□ LAY50-22B-□MT/□	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W		
 旋钮 Turn button	二位置 Two-position	LAY50-22B-□X/ LAY50-22B-□X/ffu LAY50-22B-□CX/ LAY50-22B-□CX/ffu			
	三位置 Three-position	LAY50-22B-□XS/ LAY50-22B-□XS/ffu LAY50-22B-□CXS/ LAY50-22B-□CXS/ffu			
 钥匙钮 Key push button	二位置 Two-position	LAY50-22B-□Y/			
	三位置 Three-position	LAY50-22B-□YS/			

说明 Remarks

- 1、B型按钮安装采用螺帽紧固方式，使安装更方便快捷，大幅减轻用户工作强度；
- 2、B、C两种型号的面板风格相同，主要是安装，结构方式不同；
- 3、旋钮二位置自锁有90°和45°二种，订货时请注明。
- 1、B type pushbutton uses screw fixture way in order to be more convenient and quick for installation and reduce user's working strength largely.
- 2、B、C model's panel style is same, whose main installation and structure way are different.
- 3、Two-position self-locking turn push button have types of 90° and 45° .It should be marked out when ordering.

旋钮、钥匙钮
Turn button、Key push button

外形图	功能 Function	型号 Model	颜色 Color	灯电压 Light voltage	外形尺寸 Overall dimension
 一般钮 Push button	瞬动型 Instantaneous type	LAY50-22C-□/□	红 R 绿 G 黄 Y 蓝 B 白 W 黑 K	有 Yes	
	自锁型 Self-locking type	LAY50-22C-□T/□		21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
 蘑菇钮 Mushroom push button	瞬动型 Instantaneous type	LAY50-22C-□M/□	红 R 绿 G 黄 Y 蓝 B 白 W		
	自锁型 Self-locking type	LAY50-22C-□MT/□			
 旋钮 Turn button	二位置 Two-position	LAY50-22C-□X/ LAY50-22C-□X/ffu LAY50-22C-□CX/ LAY50-22C-□CX/ffu			
	三位置 Three-position	LAY50-22C-□XS/ LAY50-22C-□XS/ffu LAY50-22C-□CXS/ LAY50-22C-□CXS/ffu			
 钥匙钮 Key push button	二位置 Two-position	LAY50-22C-□Y/			
	三位置 Three-position	LAY50-22C-□YS/			

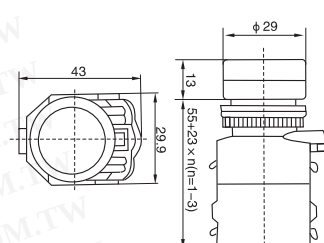
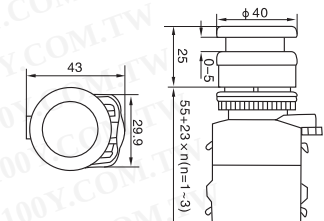
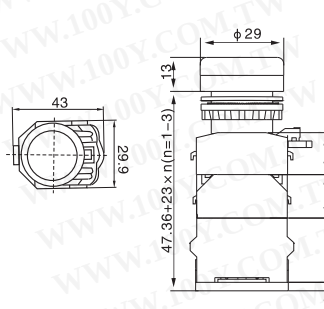
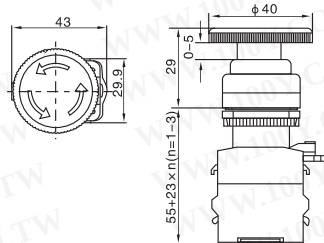
说明 Remarks

- 1、B型按钮安装采用螺帽紧固方式，使安装更方便快捷，大幅减轻用户工作强度；
- 2、A、B、C三种型号的面板风格相同，主要是安装、结构方式不同；
- 3、旋钮二位置自锁有90°和45°二种，定货时请注明。
- 1、B type pushbutton uses screw ACp fixture way in order to be more convenient and quick for installation and reduce user's working strength largely.
- 2、A、B、C model's panel style is same, whose main installation and structure way are different.
- 3、Two-position self-locking turn push button have types of 90° and 45° .It should be marked out when ordering.

一般钮、蘑菇钮、紧急钮

Common push button、Mushroom push button、Emergency push button

推荐

外形图	功能 Function	型号 Model	颜色 Color	灯电压 light valtage	外形尺寸 Overall dimension
 一般钮 Push button	瞬动型 Instantaneous type 自锁型 Self-locking type	LAY50-22D-□/□ LAY50-22D-□T/□	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W ● 黑 K		
 蘑菇钮 Mushroom pushbutton	瞬动型 Instantaneous type 自锁型 Self-locking type	LAY50-22D-□M/□ LAY50-22D-□MT/□	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W	有 Yes 21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
 带灯按钮 push button with light	瞬动型 Instantaneous type 自锁型 Self-locking type	LAY50-22D-□D/□ LAY50-22D-□TD/□	● 红 R ● 绿 G ● 黄 Y ● 蓝 B ○ 白 W		
 紧急钮 Emergency push button	按锁定, 顺时针, 转复位 Push locking, in clockwise direction, move reset	LAY50-22D-□Z/□	● 红 R		

说明 Remarks

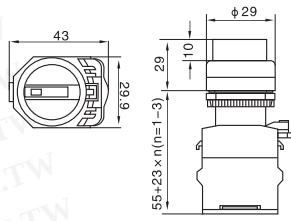
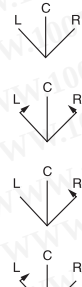
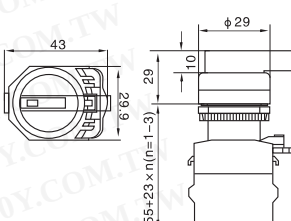
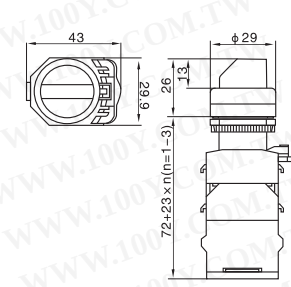
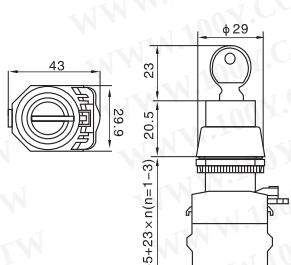
1、斜线前的□填写常开，常闭的触点数，斜线后的□填写颜色；

2、蘑菇钮头部有φ36、φ40二种尺寸，订货时请注明。

1、Filling in normal open and close number in front of □, color in back of □.

2、There are two dimensions of φ36、φ40 on the head of mushroom pushbutton. It should be marked out when ordering.

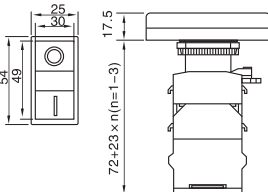
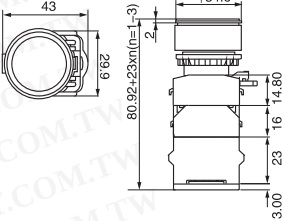
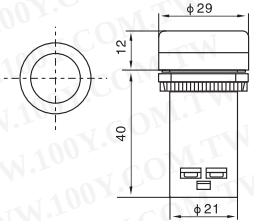
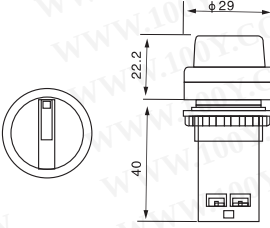
旋钮、带灯旋钮、钥匙钮
Turn button、Key push button

外形图	功能 Function	型号 Model	颜色 Color	手柄位置 Handle position	外形尺寸 Overall dimension
 旋钮 Turn button	自锁 Self-locking 右边自复位 Self reset on the right	LAY50-22D-□X/ LAY50-22D-□X/ffu LAY50-22D-□XS/ LAY50-22D-□XS/ffu	● 黑 K ● 红 R ● 绿 G ● 黄 Y		
 旋钮 Turn button	自锁 Self-locking 左右边自复位 Self reset on the left and right	LAY50-22D-□CX/ LAY50-22D-□CX/ffu LAY50-22D-□CXS/ LAY50-22D-□CXS/ffu	● 黑 K ● 红 R ● 绿 G ● 黄 Y		
 带灯旋钮 Turn button with light	二位置 Two-position 自锁 Self-locking 三位置 Three-position 自复位 Self reset	LAY50-22D-□XD/ LAY50-22D-□XD/fu LAY50-22D-□XDS/ LAY50-22D-□XDS/ffu LAY50-22D-□XDS/fu LAY50-22D-□XDS/f	● 红 R ● 绿 G ● 黄 Y		
 钥匙钮 Key push button	二位置 Two-position 三位置 Three-position	LAY50-22D-□Y/ LAY50-22D-□Y/fu LAY50-22D-□YS/ LAY50-22D-□YS/ffu			

说明 Remarks

- 带灯旋钮没有长柄规格，全部采用纯色高亮度LED光源；
- 旋钮没有特殊说明将提供黑色手柄。
- Turn pushbutton with light don't have long-handle specification, all use pure high illuminant LED light source.
- Turn push button without special instruction will be offered black handle.

双位钮、经济型按钮
Double push button、Economize push button

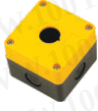
外形图	功能 Function	型号 Model	颜色 Color	灯电压 light valtage	外形尺寸 Overall dimension
 双位钮 Double position push button	不带灯双位钮 Double push button without light 带灯双位钮 (灯珠为黄色或纯白色) Double push button with light (light ball is yellow or pure white)	LAY50-22D-□□R LAY50-22D-□□RD	红/绿 R/G 	21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
 φ 30带灯按钮 φ 30 push button with light	瞬时型 Instantaneous type 自锁型 Self-locking type	LAY50-30D-□D /□ LAY50-30D-□TD/□		21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 31-AC 220V 32-AC 380V	
 经济型按钮 Economize push button	经济型按钮 Economize push button 经济型自锁按钮 Economize Self-locking push button	LAY50-22D-□J□ LAY50-22D-□JT□	不透明 Opacity 		
 经济型旋钮 Economize Turn button	二位置 Two-position 三位置 Three-position	LAY50-22D-□JX/ LAY50-22D-□JX/fu LAY50-22D-□JXS/ LAY50-22D-□JXS/ffu			

说明 Remarks

- 带灯按钮有普通和超短型之分订货时请注明，如无说明按普通型发货；
- 带灯按钮全部采用纯色高亮度LED光源。
- There are two types of common and super short type in push button with light, which should be marked out when ordering. If we will supply common type without marking out.
- Push button with light all use pure high illuminant LED light source.

图 样 Picture	名 称 Name	说 明 Remarks	图 样 Picture	名 称 Name	说 明 Remarks
 F-1	F-1/ ϕ 25 F-1/ ϕ 30 变径圈 Varying diameter ring	当面板开孔为 ϕ 25、 ϕ 30 时，应加装该安装板 When panel hole is ϕ 25、 ϕ 30, should add installation plate	 F-11	安装扳手 Sleeve spanner	适用于安装 ϕ 16 指示灯、按钮，可提高安装效率，降低安装工人劳动强度 Suitable For install ϕ 16 pilot light and push button to improve installation effect and to decrease working strength
 F-2	ϕ 30 变径螺母 ϕ 30 Varying diameter nut	用于开孔 ϕ 30 面板并产生超薄型按钮效果 For ϕ 30 installation and creating ultra-thin button effect	 F-12	BA9S 安装手柄 Sleere handle	适用于组合式信号灯灯珠的安装 Suitable for install the combined led lamp
 F-3	防护罩 Switch cover 适用于 ϕ 22 圆形按钮 For ϕ 22 circular button	安装在按钮头部可防撞、防误动，可封锁。 Always on the operators prevent striking, knocking and mistaking operation, lockable.	 F-13	铝花帽 Aluminium cap	适用 A、B、C ϕ 22 按钮(黑/白) For A、B、C ϕ 22 psh button(K/W)
 F-4	F-4/J F-4/F ϕ 16 防护罩 Switch cover	安装在按钮头部可防撞、防误动，可封锁。 Always on the operators prevent striking, knocking and mistaking operation, lockable.	 F-14	铝花帽 Aluminium cap	适用 D 型 ϕ 22 按钮 For D ϕ 22 push button
 F-5	F-5/J F-5/F ϕ 16 防水罩 water proof	方型 矩形 Square rectangular 适用于 ϕ 16 按钮 Suitable for push button 硅橡胶 Silastic 适用于 A、B、C、D 型一般按钮 Suitable for A,B,C,D type push button	 F-15	插座适用于 ϕ 16 按钮更改接线方式 For ϕ 16 button, way of changing connector is welding type	套在按钮的后部，便于按钮的安装、维护 Fixing in back of push button in order to be convenient to install concerning push button and protect.
 F-6	ϕ 22 防水罩 water proof	ϕ 22 按钮防水罩 防护等级:IP67 ϕ 22 Water proof protation degree:IP67	 F-16	ϕ 60 蘑菇头部、 ϕ 60 紧急按钮头部 ϕ 60 mushroom head、 ϕ 60 emergency push button head	蘑菇型没有箭头标志 Mushroom model has not signal of arrowhead
 F-7	F-7/ ϕ 40 F-7/ ϕ 60 F-7/ ϕ 90 警告圈 Warning ring	适用 ϕ 22 紧急按钮增加警示功能 Suitable for ϕ 22 emergency stop button to increase warning ability	 F-17	防尘后盖 Dust proof back corer	适用于 A、B、C、D 按钮 ϕ 22 防尘后盖 Suitable for A,B,C,D type push button ϕ 22 Dustproof
 F-8	ϕ 60 保护圈 ϕ 60 Protecting ring	安装在按钮头部可防撞、防误动。 Always on the operators prevent strike, knocking and mistaking operation.	 F-18	F-18/25 $\times$ 11 F-18/25 $\times$ 15 标牌框 Brand frame	按装在 ϕ 22 的指示灯、按钮上作符号指示或文字说明用。 抽出式结构，可更换标志纸。 Hang it on the push button or ϕ 22 pilot light, for symbol or text explanation. Structure of putting out, which can change signed paper
 F-9	F-9/ ϕ 22 F-9/ ϕ 25 安装板 Mounting plate	适用于 A 型按钮 Suitable for type push button	 F-19	面板塞(ϕ 22) Panel plug (ϕ 22)	用于装饰预留孔或多余孔 For blocking up prepared or useless holes on the panel
 F-10	安装扳手 Sleeve spanner	适用于安装 ϕ 22 指示灯、按钮，可提高安装效率，降低安装工人劳动强度 Always on the ϕ 22 pilot light and push button to improve installation effect and to decrease working strength	 F-20	F-20/Y F-20/F F-20/J 面板塞(ϕ 16) Panel plug(ϕ 16)	

图 样 Picture	名 称 Name	说 明 Remarks	图 样 Picture	名 称 Name	说 明 Remarks
 D-1	D-1/01 D-1/10 D-1/11 D-1/20 D-1/02 开关触点 Switch contact	适用于A、B、C、D型按钮 Suitable for A,B,C,D type push button	 Z-3	AC型连接件 AC type connection	固定按钮用 For fix push button
 D-2	D-2/NO 常开 D-2/NC 常闭 开关触点 Switch contact	适用于SKB、SKB4型按钮 Suitable for SKB,SKB4 type push button	 Z-4	B、D型连接件 B、D type connection	适用于B、D型按钮 Suitable for B、D type push button
 D-3	D-3/NO 常开 D-3/NC 常闭 开关触点 Switch contact	适用于SKB2型按钮 Suitable for SKB2 type push button	 Z-5	C型连接件 C type connection	适用于C型按钮 Suitable for C type push button
 D-4	带灯机构 Mechanism with light	适用于A、B、C、D型所有带灯按钮 Suitable for A,B,C,D push button with light	 Z-6	SKB连接件 SKB connection	适用于SKB型按钮 Suitable for SKB type push button
 D-5	带灯机构 Mechanism with light	适用于SKB2型所有带灯按钮 Suitable for SKB2 push button with light	 Z-7	SKB2型连接件 SKB2 type connection	适用于SKB2型按钮 Suitable for SKB2 type push button
 D-6	带灯机构 Mechanism with light	适用于SKB、SKB4型所有带灯按钮 Suitable for SKB,SKB4 push button with light	 Z-8	SKB4型连接件 SKB4 type connection	适用于SKB4型按钮 Suitable for SKB4 type push button
 Z-1	AA型连接件 AA type connection	固定按钮用 For fix push button			
 Z-2	AB型连接件 AB type connection	固定按钮用 For fix push button			

图 样 Picture	名 称 Name	说 明 Remarks	图 样 Picture	名 称 Name	说 明 Remarks
 开关触点 Switch contact	SKB0-1	适用于SKB0系列 翘板式 Suitable for SKB0 Series snap action contact	 H-1	按钮盒 1孔 颜色 黄/白 Push button box 1 hole Color:Y/W	选配灯、钮, 可制 造防护等级为IP65的 控制单元 Matching light, button, making IP65 of contrd unit
 开关触点 Switch contact	SKB0-2	适用于SKB0系列 平压式 Suitable for SKB0 Series Slow action contact	 H-2	按钮盒 2孔 颜色 黄/白 Push button box 2 holes Color:Y/W	选配灯、钮, 可制 造防护等级为IP65的 控制单元 Matching light, button, making IP65 of contrd unit
 连接件 Connection	SKB0-3	适用于SKB0系列 Suitable for SKB0 Series	 H-3	按钮盒 3孔 颜色 黄/白 Push button box 3 holes Color:Y/W	选配灯、钮, 可制 造防护等级为IP65的 控制单元 Matching light, button, making IP65 of contrd unit
 带灯机构 Mechanism with light	SKB0-4	适用于SKB0系列 Suitable for SKB0 Series	 H-4	按钮盒 4孔 颜色 黄/白 Push button box 4 holes Color:Y/W	选配灯、钮, 可制 造防护等级为IP65的 控制单元 Matching light, button, making IP65 of contrd unit
 铝花帽 Aluminium cap	SKB0-5	适用于SKB0系列 Suitable for SKB0 Series	 H-5	按钮盒 5孔 颜色 黄/白 Push button box 5 holes Color:Y/W	选配灯、钮, 可制 造防护等级为IP65的 控制单元 Matching light, button, making IP65 of contrd unit
 告警圈 Warning ring	SKB0-6	适用于SKB0系列 Suitable for SKB0 Series	 F-21	防护罩 Switch cover 适用于 φ 22圆形按钮 For φ 22 circular button	安装在按钮头部可防 撞、防误动, 可封锁。 Always on the operators prevent striking, knocking and mistaking operation, lockable.
 告警圈 Warning ring	SKB0-7	适用于SKB0系列 Suitable for SKB0 Series			

中文符号 Chinese signal

								
1	2	3	4	5	6	7	8	9
								
10	11	12	13	14	15	16	17	

标准符号 Standard signal

								
18	19	20	21	22	23	24	25	26
								
27	28	29	30	31	32			

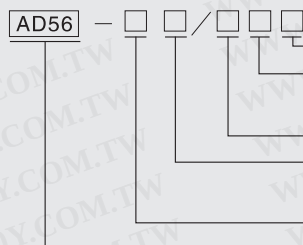
ISO符号 ISOsignal

								
33 直线移动 Straight moving	34 转动 Turn	35 启动 Start	36 停止 Stop	37 启动·停止 Start · Stop	38 点动 Inch			
								
39 泵 Pump	40 冷却泵 Cooling pump	41 润滑泵 Lubricating pump	42 液压泵 Hydraulic pressure pump	43 自动或自动循环 Auto or auto circle	44 限位直线移动 Limited straight moving			

旋钮标牌板或标牌框印字 Typing

停止 启动 Stop start	分闸 合闸 Off on	手动 自动 Manual auto	关闭 打开 Close open	关 开 Close open	检验 复位 Test reset
X1	X2	X3	X4	X5	X6
I O	O I	I O II	II O I	1 O 2	2 O 1
X7	X8	X9	X10	X11	X12
OFF-ON	STOP-START	HAND-AUTO	REV-FOR		
X13	X14	X15	X16		

型号及含义 Model and implication



灯电压代码 Light voltage code

信号灯颜色: 红、绿、黄、白、蓝、橙 Color of pilot light: red, green, yellow, white, blue, orange

详见下表格 Details refers to below table

辅助规格代号表示同一颈部尺寸的不同外型。加“S”时为超短型, 不加“S”时为标准型。

Aux code indicate same top, different shape. No letter for standard type, "S" for short type

基本规格代号(表示颈部尺寸) Basis code (for top dimension), $\Phi 16$, $\Phi 22$, $\Phi 25$, $\Phi 30$

信号灯型号(由上海电器科学研究所发放上海双科电气有限公司专用)

Type (approved by Shanghai Electrical Appliance Scientific Research institution, monopoly for Shanghai Shuangke Electrical CO.LTD.)

型号含义

Model and implication

“ZH”为组合式信号灯	Marking out "ZH" when combined indicator lamp
“K”为抗干扰信号灯	Marking out "K" when indicator need anti-interfere
“F”为放电灯	Marking out "F" when indicator need discharge
“T”为测试信号灯	Marking out "T" when indicator need test
“S”为闪光灯	Marking out "S" when flashing light
“SS”为双色灯	Marking out "SS" when double color light
“S/S”双色闪光灯	Marking out "S/S" when bi-color flashing light
“FM”蜂鸣器	Marking out "FM" when buzzer
“SM”闪光蜂鸣器	Marking out "SM" when flash buzzer
“W/N”接地位置指示器	Marking out "W/N" when connect ground indicator
“W/G”隔离刀闸位置指示器	Marking out "W/G" when Isolation brake position indicator
“W/D”断路器位置指示器	Marking out "W/D" when circuit breaker position indicator
“WY/N”接地位置指示器	Marking out "WY/N" when connect ground indicator
“WY/G”隔离刀闸位置指示器	Marking out "WY/G" when Isolation brake position indicator
“WY/D”断路器位置指示器	Marking out "WY/D" when circuit breaker position indicator
“WF/N”接地位置指示器	Marking out "WF/N" when connect ground indicator
“WF/G”隔离刀闸位置指示器	Marking out "WF/G" when Isolation brake position indicator
“WF/D”断路器位置指示器	Marking out "WF/D" when circuit breaker position indicator

主要技术指标

TECHNICAL DATA

- | | |
|-----------------------------|---|
| 1、工频耐压: 2.5KV(交流有效值), 1min。 | 1、Power frequency withstand voltage: 2.5kv/1 min (effective AC value) |
| 2、绝缘电阻 $\geq 2M\Omega$ | 2、Insulation resistance: $\geq 2M\Omega$ |
| 3、交流指示灯允许电压波动 $\pm 20\%$ | 3、Allowable voltage fluctuation: $\pm 20\%$ |
| 4、连续工作寿命 ≥ 30000 小时 | 4、Continuous operating life: $\geq 30000h$ |
| 5、光亮度 $\geq 100cd/m^2$ | 5、Brightness: $\geq 100cd/m^2$ |
| 6、相比漏电起痕指数CTI $\geq 600V$ | 6、CTI ≥ 100 |
| 7、头部防护等级IP40, IP65, 可定制IP67 | 7、Protection degree of the head IP 65, IP67 is available on request. |
| 8、使用频率AC50~60Hz | 8、Applying frequency: AC50~60Hz |

适用环境

WORKING CONDITION

- | | |
|--|---|
| 1、环境温度: $-25^{\circ}C \sim +55^{\circ}C$; | 1、Ambient temperature: $-25^{\circ}C \sim +55^{\circ}C$; |
| 2、空气相对湿度 $\leq 98\%$; | 2、Relative humidity: $\leq 98\%$; |
| 3、在振动频率为2~80Hz加速度为0.7g下能正常工作; | 3、Normally workable when vibration frequency is 2~80Hz with acceleration of 0.7g; |
| 4、污染等级为3级, 安装类别为Ⅲ类; | 4、Pollution degree is 3, installation group is Ⅲ; |
| 5、有“TH”标志的能在湿热环境下工作。 | 5、“TH” marked can work at damp-heat environment. |