



TJELC[®]
天 佳 电 气



公 司 简 介

>>>

乐清市天佳电气科技有限公司自成立以来，致力于低压电力工控产品的研制开发，生产出各种风格的LA137系列按钮开关，XAL、XDL系列控制盒和AD112系列信号灯。产品广泛用于工业自动化、配电自动化、电力机械、机床、纺织等领域。为客户提供一流的产品和优质的服务。

TJELC[®] 公司技术力量雄厚、质量意识严谨、设备先进、产品制造精良，并且拥有完善的检测系统，取得CCC认证及欧共体CE认证。并全面推行ISO9001质量管理体系认证，使产品的质量更有保障。公司将以优质的产品，扎根于客户心中，其成为客户首选产品，是公司发展目标。

TJELC[®] 公司产品远销中东、东南亚、西欧和北美洲等地区。

TJELC[®] 公司产品按照国际标准IEC60947国家GB 14048.5、CCC认证标准生产和检验，以安全、寿命长、可靠性高、设计新颖、颜色与功能规范的工艺在电气市场上成为客户首选配套产品。公司并将不断加大新产品开发力度，设计生产出最新最优的产品令客户满意。

TJELC 公司产品以优质、形美、诚信、服务来赢得客户。

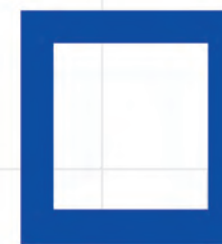
Yueqing TJELC Electrical science and technology CO.,LTD
specialized in researching、producing、developing and selling
control switch indicator.

Leading products are LA137-B(XB2-B)、LA137-E(XB2-E)、
LA137-C(XB4-B)、LA137-A(XB5-A)、LA137-D、LA137-Hseries
control switch and AD112-22、16 series indicator We offer the
first-class products and excellent service for our clients in electric
machinery machine tool equipments electric system field.To become
the clients first recommended brand is our developing aim.

Since the company has been found,we take many funds in technology innovation to meet client demand.We will establish the strong sales network in China step by step.The products have been exported to European、America and East-south Asia attached.

资质证书

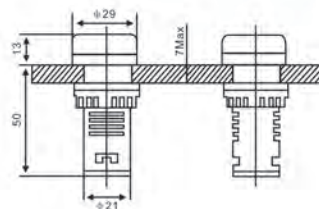
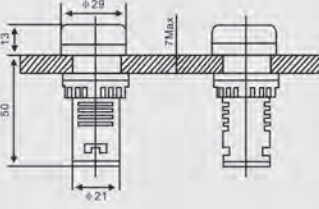
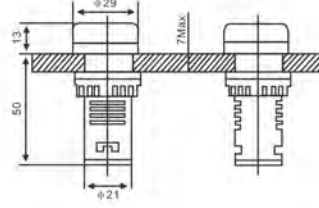
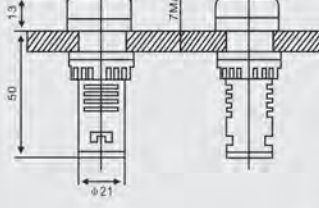
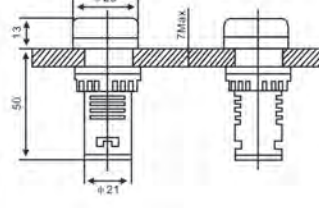
Certificate

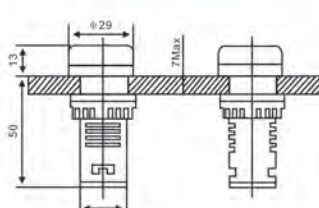
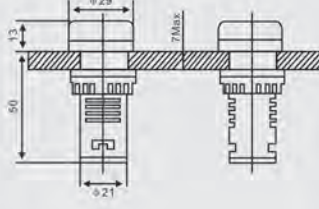
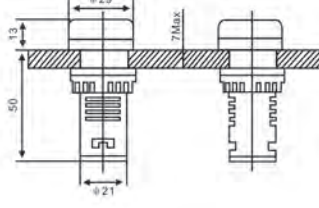
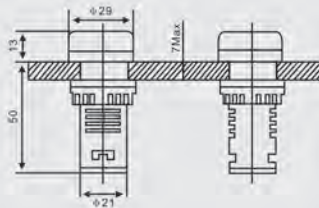
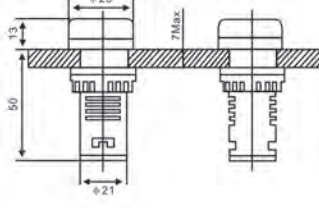


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样式 Style	名称 Name	型号 Type	颜色 Color	灯电压 Lamp voltage	外形尺寸 Outline Dimensions
	Φ22D型 信号灯 Indicator	AD112-22DS AD112-22D	- White - Green - Red - Yellow - Blue	21-DC.AC 6V 22-DC.AC 12V 23-DC.AC 24V 24-DC.AC 36V 25-DC.AC 48V 26-DC.AC 110V 27-DC.AC 127V 28-DC 220V 29-FD 380V 31-AC 220V 32-AC 380V	
	蜂鸣器 Buzzer	AD112-22M	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	
	闪光蜂鸣器 Flash Buzzer	AD112-22SM	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	
	放电灯 Indicator	AD112-22FD AD112-22F	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	
	抗干扰信号灯 Interference indicator light	AD112-22K	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	

样式 Style	名称 Name	型号 Type	颜色 Color	灯电压 Lamp voltage	外形尺寸 Outline Dimensions
	隔离刀闸位置 指示器 Isolation brake position indicator	AD112-22W/G	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	
	断路器位置 指示器 Circuit breaker position indicator	AD112-22W/D	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	
	接地位置指示器 Connect ground indicator	AD112-22W/N	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	
	双色灯 Double color indicator light	AD112-22SS	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	
	闪光灯 Flash light	AD112-22S	- White - Green - Red - Yellow - Blue	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 29-FD 380V 31-AC 220V 32-AC 380V	

◎ 型号 (MODEL)



1 按不同头部与连接方式分B、E、C、A(B: 金属头 E: 塑料头 C: 金属头 A: 塑料头)
Can be classified into B、E、C、A according to different connecting piece

3 结构分类 Textual claddification	4 派生品种 Derivation type	5 规格代号 Size number	
A: 一般按钮 A: push button P: 防污按钮 P: Even button spring return L: 高位按钮 L: high button	1: 白 white 2: 黑 black 3: 绿 green 4: 红 red 5: 黄 yellow 6: 蓝 blue	1: 常开 NO 2: 常闭 NC 3: 二常开 two NO 4: 二常闭 two NC 5: 常开+常闭 NO+NC	注: 标志按钮、带标志高位按钮 Mark button, high-order button with mark BA(L)3311 BA(L)3361 BA(L)3341 BA(L)3351 BA(L)4322 BA(L)4342
C: $\phi 40$ 蘑菇头自复位 C: $\phi 40$ mushroom self-reset button R: $\phi 60$ 蘑菇头自复位 R: $\phi 60$ mushroom self-reset button	3: 绿 green 2: 黑 black 5: 黄 yellow 6: 蓝 blue		
S: 蘑菇头自锁, 转动复位 S: Mushroom self-lock reset after turning	44: $\phi 30$ 54: $\phi 40$ 64: $\phi 60$	2: 常闭 NC	
S: 蘑菇头自锁, 钥匙瞬时转复位 S: Mushroom self-lock with key to release	14: $\phi 40$	2: 常闭 NC	
T: $\phi 40$ 推拉式紧急按钮 T: $\phi 40$ push and pull type emergency button		2: 常闭 NC 5: 常开+常闭 NO+NC	
D: 短柄旋钮 D: Short handle turn button J: 长柄旋钮 J: Long handle turn button G: 钥匙按钮 G: Key button	2: 二位锁定 Two position lock 3: 三位锁定 Three position lock 4: 二位复位 Self reset on the two position 5: 三位复位 Self reset on the three position	1: 常开 NO 2: 常闭 NC 3: 二常开 two NO 4: 二常闭 two NC 5: 常开+常闭 NO+NC	
K2: 带灯按钮二档 K2: Turn button with light K3: 带灯按钮三档 K3: Turn button with light W3: 带灯按钮 W3: Push button with light	1: 白 white 3: 绿 green 4: 红 red 5: 黄 yellow 6: 蓝 blue	6: 直接式 Flat type 7: 电阻式 Resistance type 4: 变压器式 Transformer type	1: 常开 NO 2: 常闭 NC 5: 常开+常闭 NO+NC
L8: 双位按钮 L8: Two position push button L9: 双位按钮带防护罩 L9: Two position push button	3: 一般按钮 Push button 4: 一般按钮+高钮带标志 Push button+high button	2: 双位按钮 two position push button 6: 直接式 Flat type 7: 电阻式 Resistance type 4: 变压器式 Transformer type	5: 常开+常闭 NO+NC
W8: 双位带灯按钮 W8: Two position push button with light			
V: 信号灯 V: Indicator lamp	4: 220V 变压器式 Transformer type 4: 380V 变压器式 Transformer type 6: 直接式 Flat type 7: 电阻式 Resistance type	3: 绿 green 4: 红 red 5: 黄 yellow 6: 蓝 blue 7: 白 white	
BE: 附件 (无结构分类号) BE: Annex (no structure & class)	101: 常开接触组 NO contact group 102: 常闭接触组 NC contact group		

◎ 主要技术指标 Main technological parameter

额定绝缘电压 $U_i(V)$	380				
约定发热电流 $I_{th}(A)$	10				
工频耐压 Withstand voltage	2500V Ac, 1分钟 One minute				
触点电阻 Contact resistance	$\leq 500m\Omega$ (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 AC100.000				
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				
额定工作电压 $U_e(V)$	380	220	110	48	24
额定工作电流 $I_e(A)$	AC-15	2.5	4.5	6	8
	DC-13	-	0.3	0.6	1.3

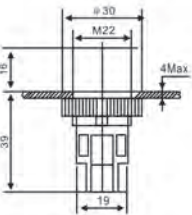
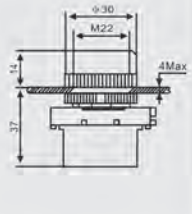
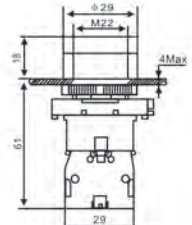
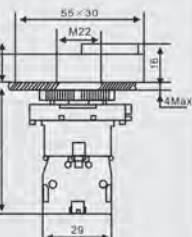
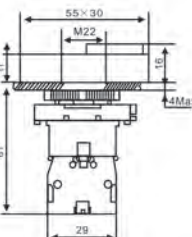
额定电压 Rated voltage(V) 电光源 Light source	直接式 Direct type							电阻式 Resistance type	变压器式 Transformer type
	6	12	24	48	110	220	380	220	220 380
LED灯 LED Light	√	√	√	-	-	-	-	-	√
氖灯 Neon lamp	-	-	-	-	√	√	√	√	-
白炽灯 Incandescence light	√	√	√	√	√	√	√	-	√

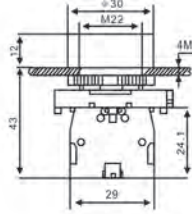
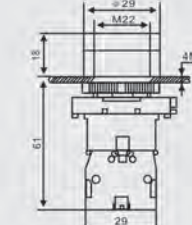
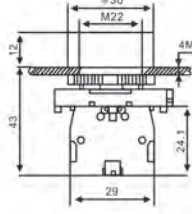
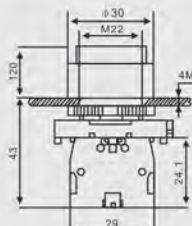
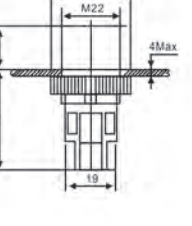
◎ 正常工作条件 Normal working condition

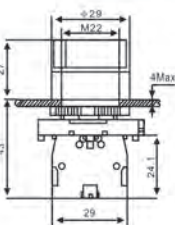
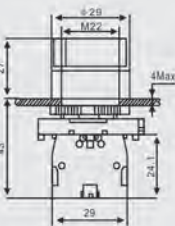
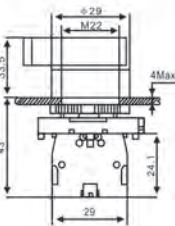
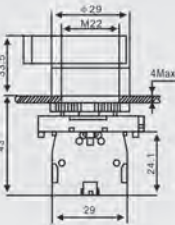
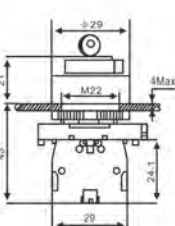
- 1、周围空气温度为 $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$, 24 小时内其平均值不超过 $+35^{\circ}\text{C}$ 。
- 2、海拔高度: 安装地点的海拔不超过 2000m。
- 3、大气条件: 最高温度为 $+40^{\circ}\text{C}$ 时, 空气的相对湿度不超过 50%, 在较低的温度下可以允许有较高的相对湿度, 例如 $+20^{\circ}\text{C}$ 时达 90%, 对于温度变化偶尔产生的凝露应采取特殊的措施。
- 4、污染等级: 3 级
- 5、安装类别: II 类

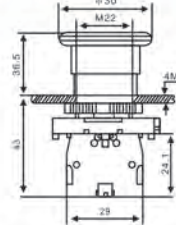
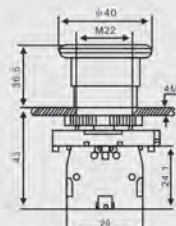
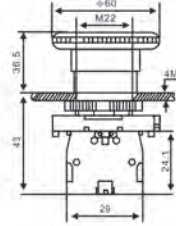
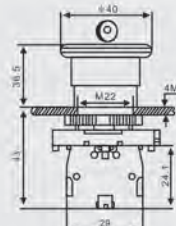
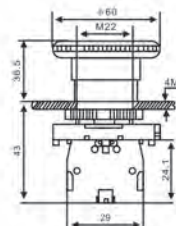
◎ 结构与性能 Structure & character

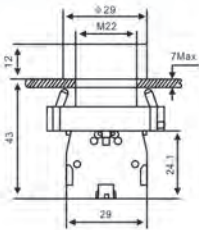
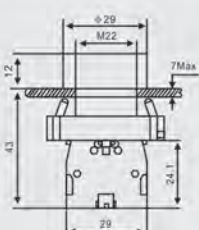
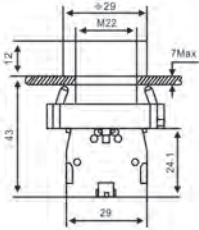
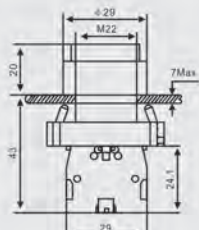
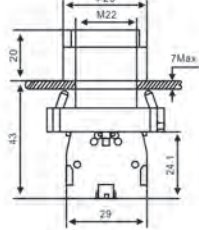
- 1、金属式按钮采用防震动操作头, 按钮不能从正面拆下;
- 2、所有触点都有切换电路和自洁的双重作用, 在低电压和小电流 (5V, 5mA) 使用中仍然能保证接触的可靠性;
- 3、常开与闭接触组互相独立, 使用时可按需要进行组合, 便于更换;
- 4、隐蔽式接线端子, 更加安全可靠。金属头式按钮操作及其基座采用压铸合金, 外型美观, 坚固;
- 5、带灯按钮及信号灯统一采用 BA9s 灯座, 可按需要选用不同灯源。

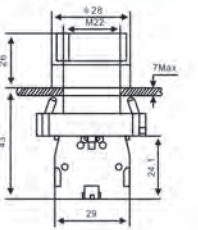
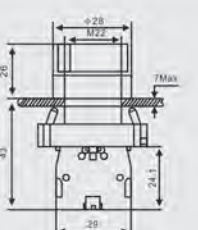
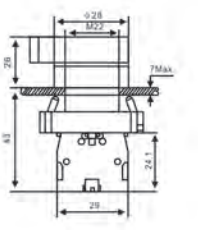
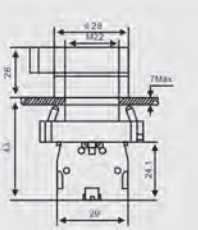
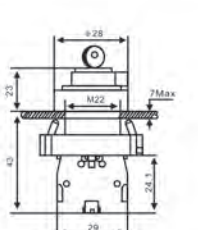
样式 Style	名称 Name	触点类型 Contact	颜色 Color	型号 Type	灯电压 Lamp voltage	外形尺寸 Outline Dimensions
	经济型指示灯 For use with Neon bulb (included) BA9s base fitting Regulator directly		○ White	LA137-EV161	130V50/60Hz 220V50/60Hz 380V50/60Hz	
			● Green	LA137-EV163		
			● Red	LA137-EV164		
			● Yellow	LA137-EV165		
			● Blue	LA137-EV166		
	指示灯 Indicator		○ White	LA137-EV61	130V50/60Hz 220V50/60Hz 380V50/60Hz	
			● Green	LA137-EV63		
			● Red	LA137-EV64		
			● Yellow	LA137-EV65		
			● Blue	LA137-EV66		
	带灯按钮 Push button with light	N/O	○ White	LA137-EW3161	130V50/60Hz 220V50/60Hz 380V50/60Hz	
		N/O	● Green	LA137-EW3361		
		N/C	● Red	LA137-EW3462		
		N/O	● Yellow	LA137-EW3561		
		N/O	● Blue	LA137-EW3661		
	双键控制按钮 绿平钮, 红平钮 带标记 1fush green 1 projecting red pushbutton marked	N/O + N/C	● Green	LA137-EL8365	自 复 Self restoration	
			● Red	LA137-EL8465		
	双键带灯控制按钮 1pilot light with Yellow lens Dire ct supply 220/240V 绿平钮, 红凸钮 带标记 1fush green 1 projecting red pushbutton marked	N/O + N/C	● Green	LA137-EW8365	130V50/60Hz 220V50/60Hz 380V50/60Hz	
			● Red	LA137-EW8465		

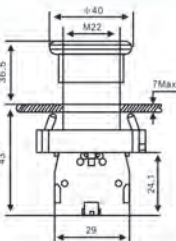
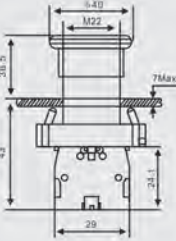
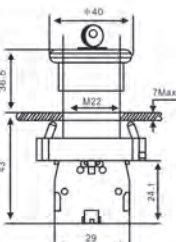
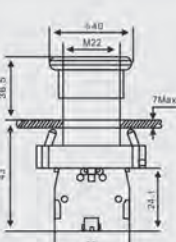
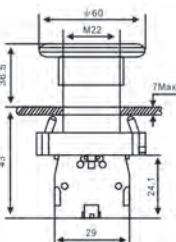
样式 Style	名称 Name	触点类型 Contact	颜色 Color	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	平头按钮 Even button spring return	N/O	○ White	LA137-EA11	自 复 Self restoration	
		N/O	● Black	LA137-EA21		
		N/O	● Green	LA137-EA31		
		N/C	● Red	LA137-EA42		
		N/O	● Yellow	LA137-EA51		
		N/O	● Blue	LA137-EA61		
	平头自锁按钮 Even button self-locked with symbol logo	N/O	○ White	LA137-EA3341T	自 锁 Maintained	
		N/O	● Black	LA137-EA3351T		
		N/O	● Green	LA137-EA3311T		
		N/C	● Red	LA137-EA4322T		
		N/C	● Yellow	LA137-EA5342T		
	带标志平头按钮 Even button spring return with symbol logo	N/O	⊙ White	LA137-EA3341	自 复 Self restoration	
		N/O	● Black	LA137-EA3351		
		N/O	● Green	LA137-EA3311		
		N/O	● Red	LA137-EA4322		
		N/O	● Red	LA137-EA5342		
	凸头按钮开关 Even button spring return	N/O	○ White	LA137-EL11	自 复 Self restoration	
		N/O	● Black	LA137-EL21		
		N/O	● Green	LA137-EL31		
		N/C	● Red	LA137-EL42		
		N/O	● Yellow	LA137-EL51		
		N/O	● Blue	LA137-EL61		
	经济型按钮开关 Pushbutton Spring return	N/O	○ White	LA137-EA111		
		N/O	● Black	LA137-EA121		
		N/O	● Green	LA137-EA131		
		N/C	● Red	LA137-EA142		
		N/O	● Yellow	LA137-EA151		
		N/O	● Blue	LA137-EA161		

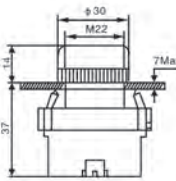
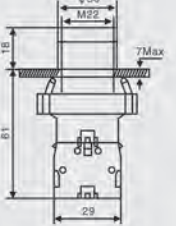
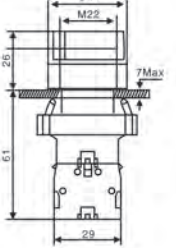
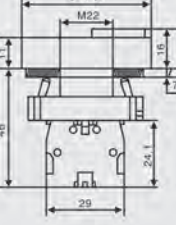
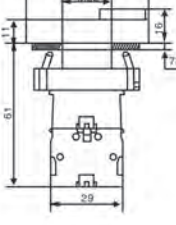
样式 Style	名称 Name	触点类型 Contact	位置 Position	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	短柄选择开关 Short handle stay put	N/O	▽	LA137-ED21	二档自锁 2position self-lock	
		N/O+N/C	▽	LA137-ED25	二档自锁 2position self-lock	
		N/O	▽	LA137-ED41	二档自复 2position Key 1 spring return to centre	
		N/O+N/C	▽	LA137-ED45	二档自复 2position Key 1 spring return to centre	
	短柄选择开关 Short handle stay put	N/O+N/C	▽	LA137-ED33	三档自锁 3position self-lock	
		N/O+N/C	▽	LA137-ED53	三档自复 3position Key 1 spring return to centre	
	长柄选择开关 Long handle stay put	N/O	▽	LA137-EJ21	二档自锁 2position self-lock	
		N/O+N/C	▽	LA137-EJ25	二档自锁 2position self-lock	
		N/O	▽	LA137-EJ41	二档自复 2position Key 1 spring return to centre	
		N/O+N/C	▽	LA137-EJ45	二档自复 2position Key 1 spring return to centre	
	长柄选择开关 Long handle stay put	N/O+N/C	▽	LA137-EJ33	三档自锁 3position self-lock	
		N/O+N/C	▽	LA137-EJ53	三档自复 3position Key 1 spring return to centre	
	钥匙选择开关 Key stay put	N/O	▽	LA137-EG21	二档自锁 2position self-lock	
		N/O	▽	LA137-EG41	二档自复 2position Key 1 spring return to centre	
		N/O+N/C	▽	LA137-EG33	三档自锁 3position self-lock	
		N/O+N/C	▽	LA137-EG53	三档自复 3position Key 1 spring return to centre	

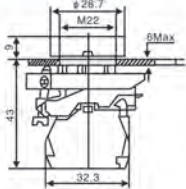
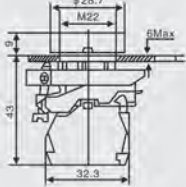
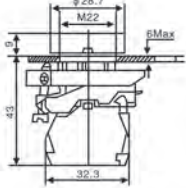
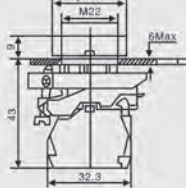
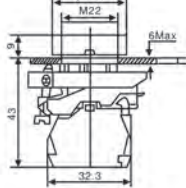
样式 Style	名称 Name	触点类型 Contact	颜色 Color	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	双键控制开关 1 flush green push button 1 flush red push button	N/O+N/C	Green Red	LA137-ES442	自锁 Maintained	
	自复蘑菇按钮 Self-reset mushroom head	N/O	Black φ 40	LA137-EC21	自复 Self restoration	
		N/O	Green φ 40	LA137-EC31		
		N/C	Red φ 40	LA137-EC42		
		N/O	Yellow φ 40	LA137-EC51		
		N/O	Blue φ 40	LA137-EA61		
		N/O	Red φ 40	LA137-ER42		
	旋转自锁蘑菇按钮 Mushroom head turn to release	N/C	Red φ 40	LA137-ES542	自锁 Maintained	
	钥匙蘑菇自锁按钮 Mushroom head Key to release	N/C	Red φ 40	LA137-ES142	自锁 Maintained	
	旋转自锁蘑菇按钮 Mushroom head turn to release	N/C	Red φ 60	LA137-ES642	自锁 Maintained	

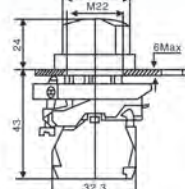
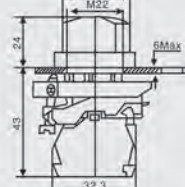
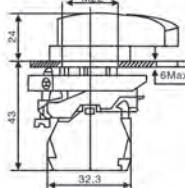
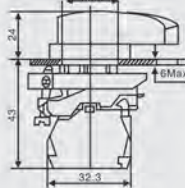
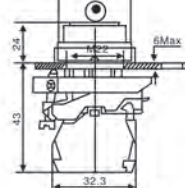
样式 Style	名称 Name	触点类型 Contact	颜色 Color	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	平头按钮 Even button spring return	N/O	○ White	LA137-BA11	自 复 Self restoration	
		N/O	● Black	LA137-BA21		
		N/O	● Green	LA137-BA31		
		N/C	● Red	LA137-BA42		
		N/O	● Yellow	LA137-BA51		
		N/O	● Blue	LA137-BA61		
LA137-BA42						
	防污按钮 Even button Atansparent Silica gel coverl	N/O	○ White	LA137-BP11	自 复 Self restoration	
		N/O	● Black	LA137-BP21		
		N/O	● Green	LA137-BP31		
		N/C	● Red	LA137-BP42		
		N/O	● Yellow	LA137-BP51		
		N/O	● Blue	LA137-BP61		
LA137-BP31						
	带标志平头按钮 Even button spring return with symbol logo	N/O	① White	LA137-BA3341	自 复 Self restoration	
		N/O	① Black	LA137-BA3351		
		N/O	① Green	LA137-BA3311		
		N/C	① Red	LA137-BA4322		
		N/C	① Red	LA137-BA5342		
LA137-BA3351						
	凸头按钮开关 Even button spring return with symbol logo	N/O	○ White	LA137-BL11	自 复 Self restoration	
		N/O	● Black	LA137-BL21		
		N/O	● Green	LA137-BL31		
		N/C	● Red	LA137-BL42		
		N/O	● Yellow	LA137-BL51		
		N/O	● Blue	LA137-BL61		
LA137-BL42						
	平头自锁按钮 Even button Self-lockod	N/O	○ White	LA137-BA11T	自 锁 Maintained	
		N/O	● Black	LA137-BA21T		
		N/O	● Green	LA137-BA31T		
		N/C	● Red	LA137-BA42T		
		N/O	● Yellow	LA137-BA51T		
		N/O	● Blue	LA137-BA61T		
LA137-BA42T						

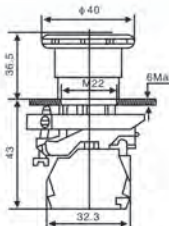
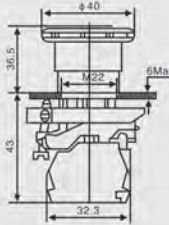
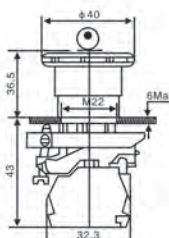
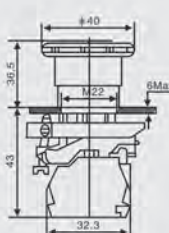
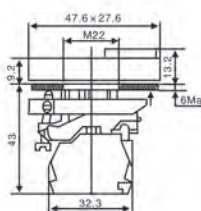
样式 Style	名称 Name	触点类型 Contact	位置 Position	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	短柄选择开关 Short handle stay put	N/O	∨	LA137-BD21	二档自锁 2position self-lock	
		N/O+N/C	∨	LA137-BD25	二档自锁 2position self-lock	
		N/O	∨	LA137-BD41	二档自复 2position Key 1 spring return to centre	
		N/O+N/C	∨	LA137-BD45	二档自复 2position Key 1 spring return to centre	
LA137-BD21						
	短柄选择开关 Short handle stay put	N/O+N/C	∨	LA137-BD33	三档自锁 3position self-lock	
		N/O+N/C	∨	LA137-BD53	三档自复 3position Key 1 spring return to centre	
LA137-BD33						
	长柄选择开关 Long handle stay put	N/O	∨	LA137-BJ21	二档自锁 2position self-lock	
		N/O+N/C	∨	LA137-BJ25	二档自锁 2position self-lock	
		N/O	∨	LA137-BJ41	二档自复 2position Key 1 spring return to centre	
		N/O+N/C	∨	LA137-BJ45	二档自复 2position Key 1 spring return to centre	
LA137-BJ21						
	长柄选择开关 Long handle stay put	N/O+N/C	∨	LA137-BJ33	三档自锁 3position self-lock	
		N/O+N/C	∨	LA137-BJ53	三档自复 3position Key 1 spring return to centre	
LA137-BJ33						
	钥匙选择开关 Key stay put	N/O	∨	LA137-BG21	二档自锁 2position self-lock	
		N/O	∨	LA137-BG41	二档自复 2position Key 1 spring return to centre	
		N/O+N/C	∨	LA137-BG33	三档自锁 3position self-lock	
		N/O+N/C	∨	LA137-BG53	三档自复 3position Key 1 spring return to centre	
LA137-BG21						

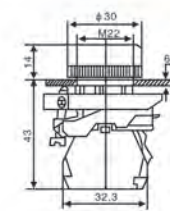
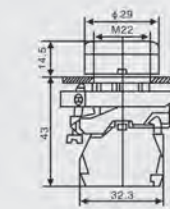
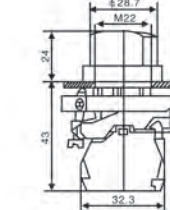
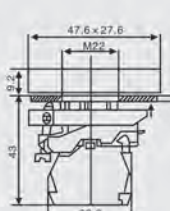
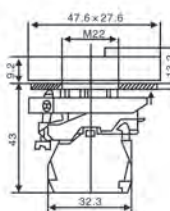
样式 Style	名称 Name	触点类型 Contact	颜色 Color	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	自复蘑菇钮 Self-reset mushroom head	N/O	● Black φ40	LA137-BC21	自 复 Self restoration	
		N/O	● Green φ40	LA137-BC31		
		N/C	● Red φ40	LA137-BC42		
		N/C	● Yellow φ40	LA137-BC51		
		N/O	● Blue φ40	LA137-BC61		
		N/C	● Red φ40	LA137-BR42		
LA137-BC42						
	旋转自锁 蘑菇钮 Mushroom head turn to release	N/C	● Red φ30	LA137-BS442	自 锁 Maintained	
		N/C	● Red φ40	LA137-BS542		
LA137-BS542						
	钥匙蘑菇自锁钮 Mushroom head Key to release	N/C	● Red φ40	LA137-BS142	自 锁 Maintained	
LA137-BS142						
	推-拉蘑菇钮 Push-pull Mushroom head	N/O	● Black φ40	LA137-BT21	自 锁 Maintained	
		N/C	● Red φ40	LA137-BT42		
LA137-BT42						
	旋转自锁 蘑菇钮 Mushroom head turn to release	N/C	● Red φ60	LA137-BS642	自 锁 Maintained	
LA137-BS642						

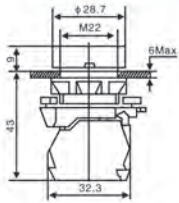
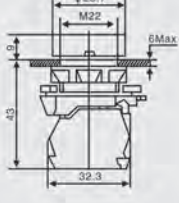
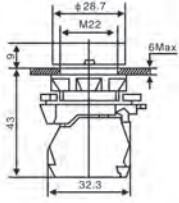
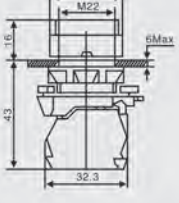
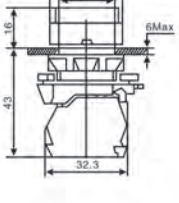
样式 Style	名称 Name	触点类型 Contact	颜色 Color	型号 Type	灯电压 Lamp voltage	外形尺寸 Outline Dimensions
	指示灯 Indicato		○ White	LA137-BV61	130V50/60Hz 220V50/60Hz 380V50/60Hz	
			● Green	LA137-BV63		
			● Red	LA137-BV64		
			● Yellow	LA137-BV65		
			● Blue	LA137-BV66		
LA137-BV64						
	直接式带灯按钮 Direct Bulb supplied	N/O	○ White	LA137-BW3161	130V50/60Hz 220V50/60Hz 380V50/60Hz	
		N/O	● Green	LA137-BW3361		
		N/C	● Red	LA137-BW3462		
		N/O	● Yellow	LA137-BW3561		
		N/O	● Blue	LA137-BW3661		
LA137-BW3361						
	带灯按钮 Trun button with light	N/O+N/C	○ White	LA137-BK2165	130V50/60Hz 220V50/60Hz 380V50/60Hz	
		N/O+N/C	● Green	LA137-BK2365		
		N/O+N/C	● Red	LA137-BK2465		
		N/O+N/C	● Yellow	LA137-BK2565		
		N/O+N/C	● Blue	LA137-BK2665		
		N/O+N/C	● Green	LA137-BK3365		
LA137-BK3465						
	绿平钮、红凸钮 带标记 双键控制开关 1 flush green push button 1 flush red push button	N/O+N/C	● Green	LA137-BL8325	自 复 Self restoration	
		N/O+N/C	● Red	LA137-BL8425		
LA137-BL8425						
	双键带灯控制按钮 1 pilot light with Yellow lens Direct supply 220/240V 绿平钮，红凸钮 带标记 1 flush green 1 Projecting red pushbutton marked	N/O+N/C	● Green	LA137-BW8365	130V50/60Hz 220V50/60Hz 380V50/60Hz	
		N/O+N/C	● Yellow	LA137-BW8465		
LA137-BW8465						

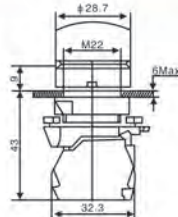
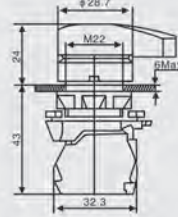
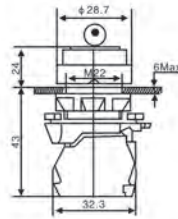
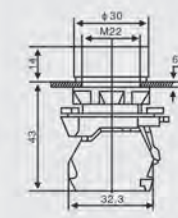
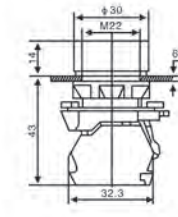
样式 Style	名称 Name	触点类型 Contact	位置 Position	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	平头按钮 Even button spring return	N/O	○ White	LA137-CA11	自复 Self restoration	
		N/O	● Black	LA137-CA21		
		N/O	● Green	LA137-CA31		
		N/C	● Red	LA137-CA42		
		N/O	● Yellow	LA137-CA51		
		N/O	● Blue	LA137-CA61		
	防污按钮 Even button spring return At transparent silica gel cover	N/O	○ White	LA137-CP11	自复 Self restoration	
		N/O	● Black	LA137-CP21		
		N/O	● Green	LA137-CP31		
		N/C	● Red	LA137-CP42		
		N/O	● Yellow	LA137-CP51		
		N/O	● Blue	LA137-CP61		
	带标志平头按钮 Even button spring return with symbol logo	N/O	① White	LA137-CA3341	自复 Self restoration	
		N/O	● Black	LA137-CA3351		
		N/O	● Green	LA137-CA3311		
		N/C	● Red	LA137-CA4322		
		N/C	● Red	LA137-CA5342		
	凸头按钮开关 Even button spring return	N/O	○ White	LA137-CP11	自复 Self restoration	
		N/O	● Black	LA137-CP21		
		N/O	● Green	LA137-CP31		
		N/C	● Red	LA137-CP42		
		N/O	● Yellow	LA137-CP51		
		N/O	● Blue	LA137-CP61		
	带标志凸头按钮 Even button spring return with symbol logo	N/O	① White	LA137-CA3341	自复 Self restoration	
		N/O	● Black	LA137-CA3351		
		N/O	● Green	LA137-CA3311		
		N/C	● Red	LA137-CA4322		
		N/C	● Red	LA137-CA5342		

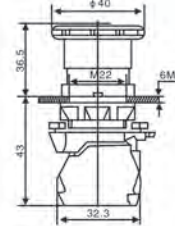
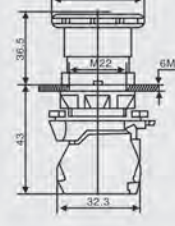
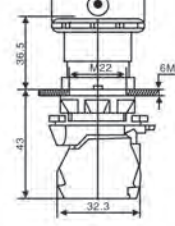
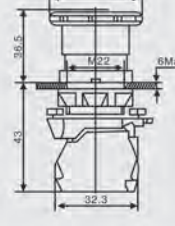
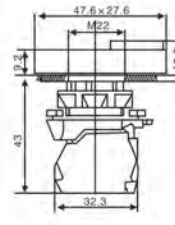
样式 Style	名称 Name	触点类型 Contact	位置 Position	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	短柄选择开关 Short handle stay put	N/O	∇	LA137-CD21	二档自锁 2 position self-lock	
		N/O+N/C	∇	LA137-CD25	二档自锁 2 position self-lock	
		N/O	∇	LA137-CD41	二档自复 2 position key 1 spring return to centre	
		N/O+N/C	∇	LA137-CD45	二档自复 2 position key 1 spring return to centre	
	短柄选择开关 Short handle stay put	N/O+N/O	∇	LA137-CD33	三档自锁 3 position self-lock	
		N/O+N/O	∇	LA137-CD53	三档自复 3 position key 1 spring return to centre	
	长柄选择开关 Long handle stay put	N/O	∇	LA137-CJ21	二档自锁 2 position self-lock	
		N/O+N/C	∇	LA137-CJ25	二档自锁 2 position self-lock	
		N/O	∇	LA137-CJ41	二档自复 2 position key 1 spring return to centre	
		N/O+N/C	∇	LA137-CJ45	二档自复 2 position key 1 spring return to centre	
	长柄选择开关 Long handle stay put	N/O+N/O	∇	LA137-CJ33	三档自锁 3 position self-lock	
		N/O+N/O	∇	LA137-CJ53	三档自复 3 position key 1 spring return to centre	
	钥匙选择开关 Key stay put	N/O	∇	LA137-CG21	二档自锁 2 position self-lock	
		N/O	∇	LA137-CG41	二档自复 2 position key 1 spring return to centre	
		N/O+N/O	∇	LA137-CG33	三档自锁 3 position self-lock	
		N/O+N/O	∇	LA137-CG53	三档自复 3 position key 2 spring return to centre	

样式 Style	名称 Name	触点类型 Contact	位置 Position	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	自复蘑菇钮 Self-reset mushroom head	N/O	● Black $\phi 40$	LA137-CC21	自 复 Self restoration	
		N/O	● Green $\phi 40$	LA137-CC31		
		N/C	● Red $\phi 40$	LA137-CC42		
		N/O	● Yellow $\phi 40$	LA137-CC51		
		N/O	● Blue $\phi 40$	LA137-CC61		
	旋转自锁 蘑菇钮 Mushroom head turn to release	N/C	● Red $\phi 40$	LA137-CS542	自 锁 Maintained	
	钥匙蘑菇自锁钮 Mushroom head key to release	N/C	● Red $\phi 40$	LA137-CS142	自 锁 Maintained	
	推-拉蘑菇钮 Push-pull Mushroom head	N/C	● Red $\phi 40$	LA137-CT42	自 锁 Maintained	
	双键控制开关 1 flush green push button 1 flush red push button	N/O+N/C	● Green ● Red	LA137-CL8325 LA137-CL8425	自 复 Self restoration	

样式 Style	名称 Name	触点类型 Contact	颜色 Color	型号 Type	灯电压 Lamp voltage	外形尺寸 Outline Dimensions
	指示灯 Indicato		● Green ● Red ● Yellow ○ White ● Green ● Red ● Yellow ● Blue	LA137-CVG3 LA137-CVG4 LA137-CVG5 LA137-CVM1 LA137-CVM3 LA137-CVM4 LA137-CVM5 LA137-CVM6	LED110V LED220V	
	带灯按钮 Push button with light	N/O N/C N/O N/O N/O N/C N/O N/O	● Green ● Red ● Yellow ○ White ● Green ● Red ● Yellow ● Blue	LA137-CW33G1 LA137-CW34G2 LA137-CW35G1 LA137-CW31M1 LA137-CW33M1 LA137-CW34M2 LA137-CW35M1 LA137-CW36M1	LED110V LED220V	
	带灯旋钮 Trun button with light	N/O+N/C N/O+N/C N/O+N/C	● Green ● Red ● Yellow	LA137-CK12B35 LA137-CK12G45 LA137-CK12M55	LED24V LED110V LED220V	
	双键带灯控制按钮 1pilot light with Yellow lens Direct supply 220/240V 绿平钮, 红平钮 不带标记 1flush green 1Projecting red pushbutton marked	N/O + N/C	● Green ● Yellow ● Red ● Green ● Yellow ● Red ● Green ● Yellow ● Red	LA137-CW83B5 LA137-CW83G5 LA137-CW83M5	LED24V LED110V LED220V	
	双键带灯控制按钮 1pilot light with Yellow lens Direct supply 220/240V 绿平钮, 红凸钮 带标记 1flush green 1Projecting red pushbutton marked	N/O + N/C	● Green ● Yellow ● Red ● Green ● Yellow ● Red ● Green ● Yellow ● Red	LA137-CW84B5 LA137-CW84G5 LA137-CW84M5	LED24V LED110V LED220V	

样式 Style	名称 Name	触点类型 Contact	位置 Position	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	平头按钮 Even button spring return	N/O	○ White	LA137-AA11	自复 Self restoration	
		N/O	● Black	LA137-AA21		
		N/O	● Green	LA137-AA31		
		N/C	● Red	LA137-AA42		
		N/O	● Yellow	LA137-AA51		
		N/O	● Blue	LA137-AA61		
	防污按钮 Even button spring return	N/O	○ White	LA137-AP11	自复 Self restoration	
		N/O	● Black	LA137-AP21		
		N/O	● Green	LA137-AP31		
		N/C	● Red	LA137-AP42		
		N/O	● Yellow	LA137-AP51		
		N/O	● Blue	LA137-AP61		
	带标志平头按钮 Even button spring return with symbol logo	N/O	① White	LA137-AA3341	自复 Self restoration	
		N/O	● Black	LA137-AA3351		
		N/O	● Green	LA137-AA3311		
		N/C	● Red	LA137-AA4322		
		N/C	● Red	LA137-AA5342		
	凸头按钮开关 Even button spring return	N/O	○ White	LA137-AL11	自复 Self restoration	
		N/O	● Black	LA137-AL21		
		N/O	● Green	LA137-AL31		
		N/C	● Red	LA137-AL42		
		N/O	● Yellow	LA137-AL51		
		N/O	● Blue	LA137-AL61		
	带标志凸头按钮 Even button spring return with symbol logo	N/O	① White	LA137-AL3341	自复 Self restoration	
		N/O	● Black	LA137-AL3351		
		N/O	● Green	LA137-AL3311		
		N/C	● Red	LA137-AL4322		
		N/C	● Red	LA137-AL5342		

样式 Style	名称 Name	触点类型 Contact	位置 Position	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions		
 LA137-AD33	短柄选择开关 Short handle stay put	N/O+N/O		LA137-AD33	三档自锁 3 position self-lock			
		N/O+N/O		LA137-AD53	三档自复 3 position key 1 spring return to centre			
 LA137-AJ21	长柄选择开关 Long handle stay put	N/O		LA137-AJ21	二档自锁 2 position self-lock			
		N/O+N/C		LA137-AJ25	二档自锁 2 position self-lock			
		N/O		LA137-AJ41	二档自复 2 position key 1 spring return to centre			
		N/O+N/C		LA137-AJ45	二档自复 2 position key 1 spring return to centre			
 LA137-AG21	钥匙选择开关 Key stay put	N/O		LA137-AG21	二档自锁 2 position self-lock			
		N/O		LA137-AG41	二档自复 2 position key 1 spring return to centre			
		N/O+N/O		LA137-AG33	三档自锁 3 position self-lock			
		N/O+N/O		LA137-AG53	三档自复 3 position key 2 spring return to centre			
 LA137-AVM5	指示灯 Indicato		 Green	LA137-AVG3	LED110V			
			 Red	LA137-AVG4				
			 Yellow	LA137-AVG5				
			 White	LA137-AVM1	LED220V			
			 Green	LA137-AVM3				
			 Red	LA137-AVM4				
 LA137-AW34M5	带灯按钮 Push button with light		 Yellow	LA137-AVM5	LED220V			
			 Blue	LA137-AVM6				
			N/O	 Green			LA137-CW33G1	LED110V
			N/C	 Red			LA137-CW34G2	
			N/O	 Yellow			LA137-CW35G1	
			N/O	 White			LA137-CW31M1	LED220V
N/O	 Green	LA137-CW33M1						
N/C	 Red	LA137-CW34M2						
		N/O	 Yellow	LA137-CW35M1				
		N/O	 Blue	LA137-CW36M1				

样式 Style	名称 Name	触点类型 Contact	颜色 Color	型号 Type	工作状态 Self restoration	外形尺寸 Outline Dimensions
	自复蘑菇钮 Self-reset mushroom head	N/O	● Black φ40	LA137-AC21	自 复 Self restoration	
		N/O	● Green φ40	LA137-AC31		
		N/C	● Red φ40	LA137-AC42		
		N/O	● Yellow φ40	LA137-AC51		
		N/O	● Blue φ40	LA137-AC61		
LA137-AC42						
	旋转自锁 蘑菇钮 Mushroom head turn to release	N/C	● Red φ40	LA137-AS542	自 锁 Maintained	
LA137-AS542						
	钥匙蘑菇自锁钮 Mushroom head key to release	N/C	● Red φ40	LA137-AS142	自 锁 Maintained	
LA137-AS142						
	推-拉蘑菇钮 Push-pull Mushroom head	N/C	● Red φ40	LA137-AT42	自 锁 Maintained	
LA137-AT42						
	双键控制开关 1 flush green push button 1 flush red push button	N/O+N/C	● Green ● Red	LA137-AL8325 LA137-AL8425	自 复 Self restoration	
LA137-AL8425						

◎ 型号及含义 (MODEL AND EXPLANATION)

LA137 1 2 -- 3 4 5 / 6 7 8 TH

- 按钮功能
Function of push button
- 表示常闭触头数
Indicates normally closed contact quantity
- 表示常开触头数
Indicates normally open contact quantity
- 分别填D、F表示LA137系列的两种外观结构风格
D、F showed the two different external structure styles of LA137 series.
- Indicates normally open contact quantity
- 按钮型号(由上海电器科学研究所开发, 天佳电气科技有限公司专用)
Type (approved by Shanghai electrical appliance scientific research institution, monopoly for TJELC 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	Y	二位钥匙按钮 Two-position key push button
D	带灯按钮 Push button with light	X	短柄二位旋钮 Short-handle two-position turn button
S□	符号按钮, 内填符号 Sign push button, is filled with symbol	CX	长柄二位旋钮 Long-handle two-position turn button
T	自锁按钮 Mushroom push button	ZY	钥匙紧急按钮 Key emergency push button
M	蘑菇按钮 Self-locking mushroom push button	R	双键按钮 Two position turn button
MT	蘑菇自锁按钮 Self-locking mushroom push button	RD	双键带灯按钮 Two position turn button with light
Z	紧急按钮 Emergency push button		

5 表示按钮片颜色 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

6 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

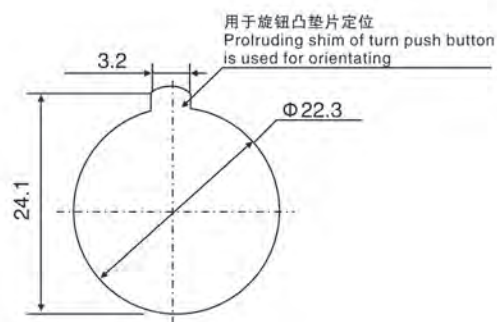
◎ 技术性能参数 Technical performance parameter

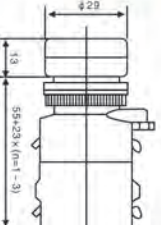
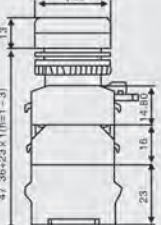
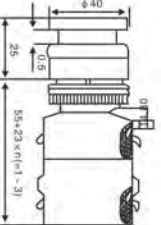
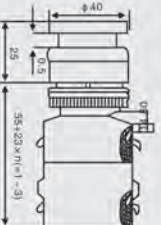
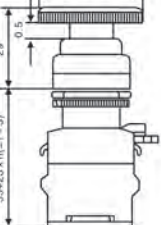
使用条件 Serviceconditions	工作温度 Opeation temperature	使用类别 Opeation category	污染等级 Pollution class	安装高程 Installation Height	抗振动 Vibration Durability		
	+55℃~-25℃	AC15 DC13	3	2000m	10~200Hz 1mn.10g		
控制能力 Control ability	交流 AC			直流 DC			
	额定工作电压Ue Rated operation voltage	额定工作电流Ie Rated operation current		额定工作电压Ue Rated operation voltage		额定工作电流Ie Rated operation current	
		弹片式	平压式	弹片式	平压式	弹片式	平压式
	500V	2	2.3	110V		12	1A
	380V	4	4.5	48V		3.6	3A
	220V	5.5	6.5	24V		7.2	6A
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 heation 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 AC electrical life 120 × 10 ⁴ times		
	旋钮 Turn button		30 × 10 ⁴				
	钥匙钮 Key push button		5 × 10 ⁴		直流电寿命 60 × 10 ⁴ 次 DC electrical life 60 × 10 ⁴ times.		
	紧急钮 Emergency push button		5 × 10 ⁴				
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)			



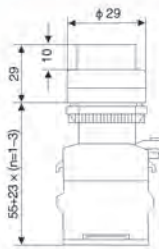
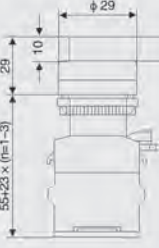
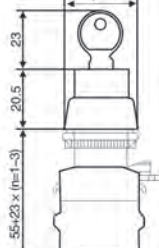
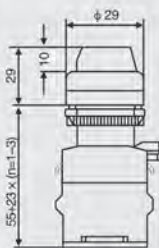
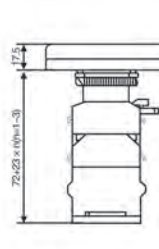
开关元件触点状态 Contact state of the switch element					
状态 State	01	10	02	20	11
触点代码 Contact code	01	10	02	20	11
	一闭 One close	一开 One open	二闭 Two close	二开 Two open	一开一闭 One open One close

◎ 技术开孔尺寸图 Dimension diagram of the installation hole

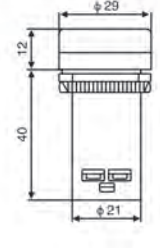
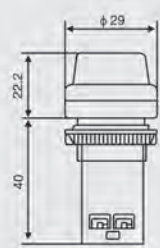
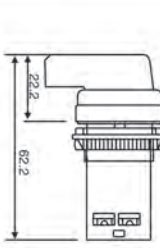
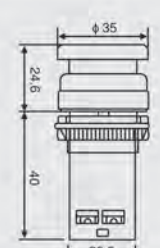
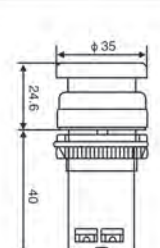


样式 Style	名称 Name	触点类型 Contact	型号 Type	颜色 Color	工作状态 Self restoration	外形尺寸 Outline Dimensions
	平头按钮 Even button spring return	N/C	LA137-D-01/■	○ White	自复 Self restoration	
		N/O	LA137-D-10/■	● Black		
		N/C+N/C	LA137-D-02/■	● Green		
		N/O+N/O	LA137-D-20/■	● Red		
		N/O+N/C	LA137-D-11/■	● Yellow		
LA137-D-11				● Blue		
	带灯按钮 Push button with light	N/C	LA137-D-01D/□■	○ White	自复 Self restoration	
		N/O	LA137-D-10D/□■	● Green		
		N/C+N/C	LA137-D-02D/□■	● Red		
		N/O+N/O	LA137-D-20D/□■	● Yellow		
		N/O+N/C	LA137-D-11D/□■	● Blue		
LA137-D-11D						
	带灯自复蘑菇按钮 Self-reset mushroom head with light	N/C	LA137-D-01MD/□■	○ White	自复 Self restoration	
		N/O	LA137-D-10MD/□■	● Green		
		N/C+N/C	LA137-D-02MD/□■	● Red		
		N/O+N/O	LA137-D-20MD/□■	● Yellow		
		N/O+N/C	LA137-D-11MD/□■	● Blue		
LA137-D-11MD						
	自复蘑菇按钮 Self-reset mushroom head	N/C	LA137-D-01M/■	○ White	自复 Self restoration	
		N/O	LA137-D-10M/■	● Black		
		N/C+N/C	LA137-D-02M/■	● Green		
		N/O+N/O	LA137-D-20M/■	● Red		
		N/O+N/C	LA137-D-11M/■	● Yellow		
LA137-D-11M				● Blue		
	旋转自锁 蘑菇按钮 Mushroom head turn to release	N/C	LA137-D-01ZS/■	● Green	自锁 Maintained	
		N/O	LA137-D-10ZS/■	● Red		
		N/C+N/C	LA137-D-02ZS/■			
		N/O+N/O	LA137-D-20ZS/■			
		N/O+N/C	LA137-D-11ZS/■			
LA137-D-11ZS						

斜线后的“□”内填写电压，“■”内填写颜色 Filling the volt of “□”，color in back of “■”。

样式 Style	名称 Name	触点类型 Contact	型号 Type	颜色 Color	工作状态 Self restoration	外形尺寸 Outline Dimensions
	短柄选择开关 Short handle stay put	N/C	LA137-D-01X/2	● Black ● Green ● Red	自锁 Maintained	
		N/O	LA137-D-10X/2			
		N/C+N/C	LA137-D-02X/2			
		N/O+N/O	LA137-D-20X/2			
		N/O+N/C	LA137-D-11X/2			
		N/O+N/O	LA137-D-20X/3			
		N/O+N/C	LA137-D-11X/3			
	长柄选择开关 Long handle stay put	N/C	LA137-D-01CX/2	● Black ● Green ● Red	自锁 Maintained	
		N/O	LA137-D-10CX/2			
		N/C+N/C	LA137-D-02CX/2			
		N/O+N/O	LA137-D-20CX/2			
		N/O+N/C	LA137-D-11CX/2			
		N/O+N/O	LA137-D-20CX/3			
		N/O+N/C	LA137-D-11CX/3			
	钥匙选择开关 Keystay put	N/C	LA137-D-01Y/2		自锁 Maintained	
		N/O	LA137-D-10Y/2			
		N/C+N/C	LA137-D-02Y/2			
		N/O+N/O	LA137-D-20Y/2			
		N/O+N/C	LA137-D-11Y/2			
		N/O+N/O	LA137-D-20Y/3			
		N/O+N/C	LA137-D-11Y/3			
	带灯旋钮 Trun button with light	N/C	LA137-D-01XD/2□	○ White ● Black ● Green ● Red ● Yellow ● Blue	自锁 Maintained	
		N/O	LA137-D-10XD/2□			
		N/C+N/C	LA137-D-02XD/2□			
		N/O+N/O	LA137-D-20XD/2□			
		N/O+N/C	LA137-D-11XD/2□			
		N/O+N/O	LA137-D-20XD/3□			
		N/O+N/C	LA137-D-11XD/3□			
	双键控制开关 1 flush green push button 1 flush red push button	N/C	LA137-D-01R/□	● Green ● Red	自复 Self restoration	
		N/O	LA137-D-10R/□			
		N/C+N/C	LA137-D-02R/□			
		N/O+N/O	LA137-D-20R/□			
		N/O+N/C	LA137-D-11R/□			
		N/O+N/O	LA137-D-11RD/□			
		N/O+N/C	LA137-D-20RD/□			

斜线后的“□”内填写电压，“■”内填写颜色 Filling the volt of “□”，color in back of “■”。

样式 Style	名称 Name	触点类型 Contact	型号 Type	颜色 Color	工作状态 Self restoration	外形尺寸 Outline Dimensions
	平头按钮 Even button spring return	N/C	LA137-F-01/■	○ White ● Black ● Green ● Red ● Yellow ● Blue	自复 Self restoration	
		N/O	LA137-F-10/■			
		N/C+N/C	LA137-F-02/■			
		N/O+N/O	LA137-F-20/■			
		N/O+N/C	LA137-F-11/■			
	短柄选择开关 Short handle stay put	N/C	LA137-F-01X/2	● Black ● Green ● Red	自锁 Maintained	
		N/O	LA137-F-10X/2			
		N/C+N/C	LA137-F-02X/2			
		N/O+N/O	LA137-F-20X/2			
		N/O+N/C	LA137-F-11X/2			
		N/O+N/O	LA137-F-20X/3			
		N/O+N/C	LA137-F-11X/3			
	长柄选择开关 Long handle stay put	N/C	LA137-F-01CX/2	● Black ● Green ● Red	自锁 Maintained	
		N/O	LA137-F-10CX/2			
		N/C+N/C	LA137-F-02CX/2			
		N/O+N/O	LA137-F-20CX/2			
		N/O+N/C	LA137-F-11CX/2			
		N/O+N/O	LA137-F-20CX/3			
		N/O+N/C	LA137-F-11CX/3			
	自复蘑菇钮 Self-reset mushroom head	N/C	LA137-F-01M/■	● Black ● Green ● Red ● Yellow ● Blue	自复 Self restoration	
		N/O	LA137-F-10M/■			
		N/C+N/C	LA137-F-02M/■			
		N/O+N/O	LA137-F-20M/■			
		N/O+N/C	LA137-F-11M/■			
	旋转自锁 蘑菇钮 Mushroom head turn to release	N/C	LA137-F-01ZS/■	● Green ● Red	自锁 Maintained	
		N/O	LA137-F-10ZS/■			
		N/C+N/C	LA137-F-02ZS/■			
		N/O+N/O	LA137-F-20ZS/■			
		N/O+N/C	LA137-F-11ZS/■			

斜线后的“□”内填写电压，“■”内填写颜色 Filling the volt of “□”，color in back of “■”。

◎ 型号及含义 (MODEL AND EXPLANTILN)

LA137 1 2 3 4 5 / 6 7 8 TH

按钮功能
Function of push button

表示常闭触头数
Indicates normally closed contact quantity

表示常开触头数
Indicates normally open contact quantity

H表示LA137系列按钮指示灯风格

H show the style of LA137 series push button and indicator type lapp

按钮型号(由上海电器科学研究所发放, 天佳电气科技有限公司专用)

Type (approved by Shanghai electrical appliance scientific resrarch institution, monopoly for TJELC electrical CO.,LTO)



◎ 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: 40~85%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/S2(10G)
机械寿命	瞬动型按钮20万次, 其它10万次
电气寿命	瞬动型按钮10万次, 其它5万次
接线	焊接线直径: 20 × 0.8mm最大, 铜线面积: 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)

◎ 性能特征 Performance feature (Φ8、Φ12)

工作环境温度	-15~+55℃
操作湿度	45~85%RH(无凝结)
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 16)

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(2200V)
直流	1A	0.2A	0.1A
交流	P.F=1	1A	0.5A
	P.F=0.7	0.7A	0.5A

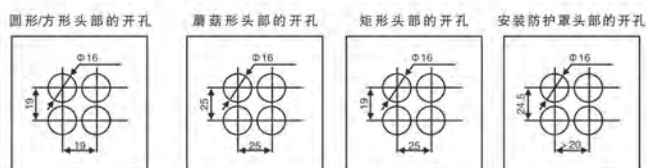
◎ 触头额定值 Contact ratings(φ 16)

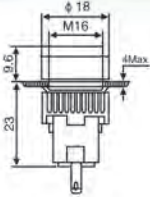
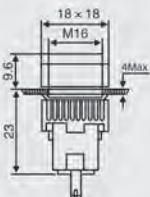
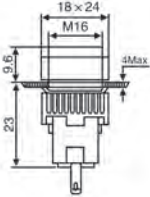
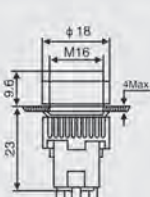
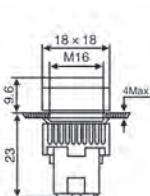
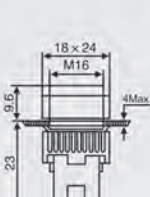
最大电压			AC/DC		
发热电流			3A		
工作电源			24V	110V	220V
额定	AC	阻性	2A	1.5A	1A
		感性	2A	1A	0.7A
	DC	阻性	1.0A	0.5A	0.2A
		感性	0.7A	0.2A	0.1A
触点材料			镀金银触点		

◎ LED性能特点
LED performance characteristics(φ 16)

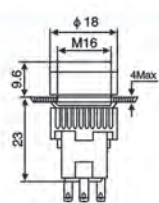
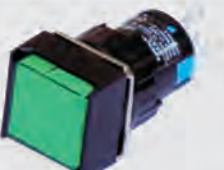
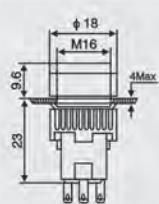
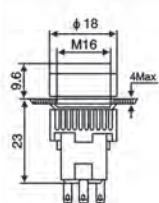
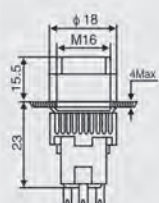
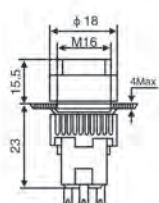
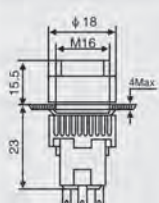
工作电压	6V	12V	24V	110V	220V
允许电压波动	± 5%	± 5%	± 10%	± 20%	± 20%
光源	LED	LED	LED	LED	LED
颜色	R、G、Y、B、W、FW、PG	R、G	R、G	R、G	R、G
工作电流	20mA	15mA	13mA	1.4mA	0.8mA
工作寿命	3万小时	3万小时	3万小时	3万小时	3万小时

◎ 安装开孔尺寸

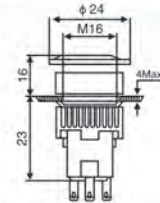
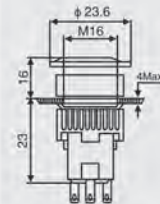
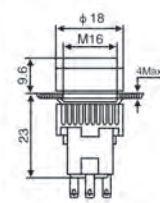
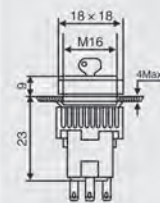
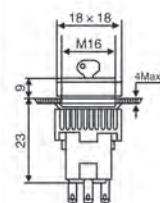
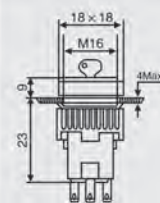


样式 Style	名称 Name	工作状态 Self restoration	型号 Type	颜色 Color	灯电压 Lamp voltage	外形尺寸 Outline Dimensions
 LA137-H-16C	指示灯 (圆形) Pilot light (round)		LA137-H-16C/□	○ White ● Green ● Red ● Yellow ● Blue	21-AC.DC6V 22-AC.DC12V 23-AC.DC24V 24-AC.DC36V 25-AC.DC48V 26-AC.DC110V 28-DC220V 31-AC220V	
 LA137-H-16F	指示灯 (方形) Pilot light (square)		LA137-H-16F/□	○ White ● Green ● Red ● Yellow ● Blue	21-AC.DC6V 22-AC.DC12V 23-AC.DC24V 24-AC.DC36V 25-AC.DC48V 26-AC.DC110V 28-DC220V 31-AC220V	
 LA137-H-16J	指示灯 (矩形) Pilot light (rectangle)		LA137-H-16J/□	○ White ● Green ● Red ● Yellow ● Blue	21-AC.DC6V 22-AC.DC12V 23-AC.DC24V 24-AC.DC36V 25-AC.DC48V 26-AC.DC110V 28-DC220V 31-AC220V	
 LA137-H-11	按钮 (圆形) Pilot light (round)	瞬动 Momentary	LA137-H-11/□ LA137-H-22/□	○ White ● Green ● Red ● Yellow ● Blue		
		自锁 Maintained	LA137-H-11T/□ LA137-H-22T/□			
 LA137-H-11F	按钮 (方形) Pilot light (square)	瞬动 Momentary	LA137-H-11F/□ LA137-H-22F/□	○ White ● Green ● Red ● Yellow ● Blue		
		自锁 Maintained	LA137-H-11TF/□ LA137-H-22TF/□			
 LA137-H-11J	按钮 (矩形) Pilot light (rectangle)	瞬动 Momentary	LA137-H-11J/□ LA137-H-22J/□	○ White ● Green ● Red ● Yellow ● Blue		
		自锁 Maintained	LA137-H-11TJ/□ LA137-H-22TJ/□			

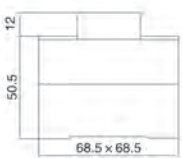
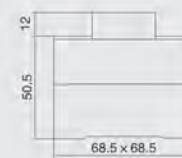
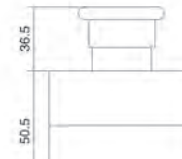
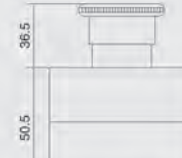
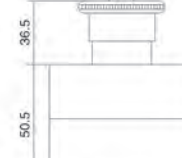
斜线后的“□”内填写电压, “■”内填写颜色 Filling the volt of “□”, color in back of “■”。

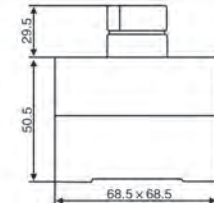
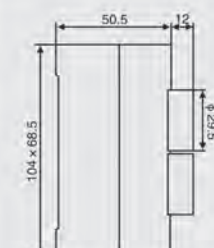
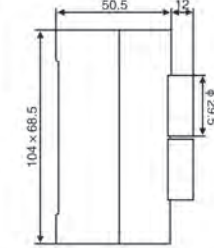
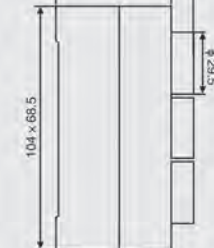
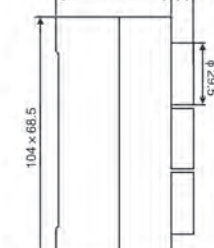
样式 Style	名称 Name	工作状态 Self restoration	型号 Type	颜色 Color	灯电压 Lamp voltage	外形尺寸 Outline Dimensions
 LA137-H-11D	带灯按钮 (圆形) Illuminated Pushbuttons (round)	瞬动 Momentary	LA137-H-11D/□	○ White	21-AC.DC6V 22-AC.DC12V 23-AC.DC24V 24-AC.DC36V 25-AC.DC48V 26-AC.DC110V 28-DC220V 31-AC220V	
		自锁 Maintained	LA137-H-22D/□	● Green ● Red ● Yellow ● Blue		
 LA137-H-11DF	带灯按钮 (方形) Illuminated Pushbuttons (square)	瞬动 Momentary	LA137-H-11DF/□	○ White	21-AC.DC6V 22-AC.DC12V 23-AC.DC24V 24-AC.DC36V 25-AC.DC48V 26-AC.DC110V 28-DC220V 31-AC220V	
		自锁 Maintained	LA137-H-22DF/□	● Green ● Red ● Yellow ● Blue		
 LA137-H-11DJ	带灯按钮 (矩形) Illuminated Pushbuttons (rectangle)	瞬动 Momentary	LA137-H-11DJ/□	○ White	21-AC.DC6V 22-AC.DC12V 23-AC.DC24V 24-AC.DC36V 25-AC.DC48V 26-AC.DC110V 28-DC220V 31-AC220V	
		自锁 Maintained	LA137-H-22DJ/□	● Green ● Red ● Yellow ● Blue		
 LA137-H-11X/2	旋钮 (圆形) Round Turn button	L R 90° 二位保持 2-position	LA137-H-11X/2	● Green ● Red ● Yellow		
		L C R 45° 45° 三位保持 3-position	LA137-H-22X/3			
 LA137-H-22XF/2	旋钮 (方形) square Turn button	L R 90° 二位保持 2-position	LA137-H-11XF/2	● Green ● Red ● Yellow		
		L C R 45° 45° 三位保持 3-position	LA137-H-22XF/3			
 LA137-H-11XJ/2	旋钮 (矩形) rectangle Turn button	L R 90° 二位保持 2-position	LA137-H-11XJ/2	● Green ● Red ● Yellow		
		L C R 45° 45° 三位保持 3-position	LA137-H-22XJ/3			

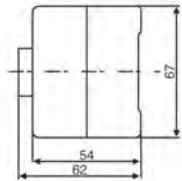
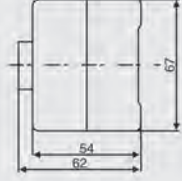
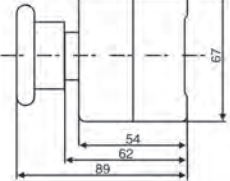
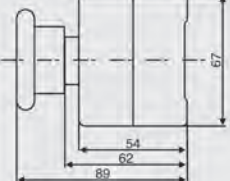
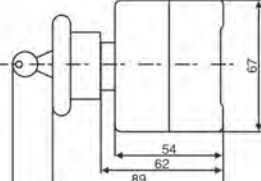
斜线后的“□”内填写电压，“■”内填写颜色 Filling the volt of “□”，color in back of “■”。

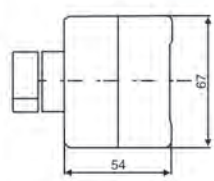
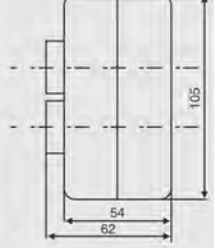
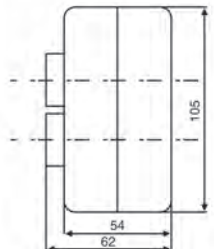
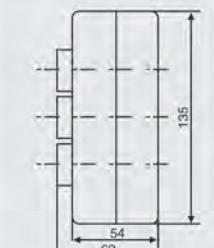
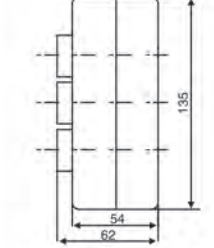
样式 Style	名称 Name	工作状态 Self restoration	型号 Type	颜色 Color	灯电压 Lamp voltage	外形尺寸 Outline Dimensions
 LA137-H-11ZS	紧急按钮 Emergency stop pushbuttons	自锁 Maintained	LA137-H-11ZS/■	○ White		
			LA137-H-22ZS/■	● Green ● Red ● Yellow ● Blue		
 LA137-H-11M	蘑菇按钮 Mushroom pushbuttons	瞬动 Momentary	LA137-H-11M/■	○ White		
		自锁 Maintained	LA137-H-11MT/■	● Green ● Red ● Yellow ● Blue		
 LA137-H-11MD	带灯蘑菇按钮 Illuminated mushroom pushbuttons	瞬动 Momentary	LA137-H-11MD/□	○ White	21-AC.DC6V 22-AC.DC12V 23-AC.DC24V 24-AC.DC36V 25-AC.DC48V 26-AC.DC110V 28-DC220V 31-AC220V	
		自锁 Maintained	LA137-H-22MD/□	● Green ● Red ● Yellow ● Blue		
 LA137-H-11Y/2	钥匙按钮 (圆形) Key Selectors (round)	L R 90° 二位保持 2-position	LA137-H-11Y/2			
		L C R 45° 45° 三位保持 3-position	LA137-H-22Y/3			
 LA137-H-11YF/2	钥匙按钮 (方形) Key Selectors (square)	L R 90° 二位保持 2-position	LA137-H-11YF/2			
		L C R 45° 45° 三位保持 3-position	LA137-H-22YF/3			
 LA137-H-11YJ/2	钥匙按钮 (矩形) Key Selectors (rectangle)	L R 90° 二位保持 2-position	LA137-H-11YJ/2			
		L C R 45° 45° 三位保持 3-position	LA137-H-22YJ/3			

斜线后的“□”内填写电压，“■”内填写颜色 Filling the volt of “□”，color in back of “■”。

样式 Style	名称 Name	触点类型 Contact	标牌标记 Color	按钮标记 Marking on push button	型号 Type	外形尺寸 Outline Dimensions
	控制按钮盒 1 green flush pushbutton spring return	N/O	Start	-	XAL-B101H29	
		N/O	-	①	XAL-B102	
		N/O	-	Start	XAL-B103	
		N/O	-	-	XAL-B101	
	控制按钮盒 1 green flush pushbutton spring return	N/C	-	①	XAL-B112	
		N/C	-	①	XAL-B111H29	
		N/C	-	Stop	XAL-B114	
	控制按钮盒 1 red mushroom head pushbutton Φ40mm latching Trun to release	N/C	Energiebct Stop	-	XAL-B164H29	
			-	-	XAL-B164	
	控制按钮盒 1 red mushroom head pushbutton Φ40mm latching Trun to release	N/C	Energiebct Stop	Red	XAL-B174H29	
			-	Red	XAL-B174	
			Energiebct Stop	Red	XAL-J174H29	
			-	Red	XAL-J174	
	控制按钮盒 1 Selector switch 2-position stay put standard black handle	N/C	Energiebct Stop	Red	XAL-B184H29	
			-	Red	XAL-B184	
			Energiebct Stop	Red	XAL-J184H29	
			-	Red	XAL-J184	

样式 Style	名称 Name	触点类型 Contact	标牌标记 Color	按钮标记 Marking on push button	型号 Type	外形尺寸 Outline Dimensions
	控制按钮盒 2 Spring return push button 1 flush green 1 flush red	旋钮 Selector	Stop	-	XAL-B132H29	
			①	-	XAL-B134H29	
		钥匙钮 Keylock Selector	Stop	-	XAL-B142H29	
			-	-	XAL-B144H29	
	控制按钮盒 2 Spring return push button 1 flush green 1 flush red	N/O + N/C	open close	-	XAL-B241H29	
			Stop Start	-	XAL-B211H29	
			-	① ②	XAL-B213	
			-	① ②	XAL-B215	
	控制按钮盒 2 Spring return push button 1 flush green 1 flush red	N/O + N/C	-	① ②	XAL-B223	
			-	① ②	XAL-B225	
	控制按钮盒 3 Spring return push button 1 flush white (black arrow) 1 flush red 1 flush back (white arrow)	N/O + N/C + N/O	-	① ② ③	XAL-B324	
			-	① ② ③	XAL-B334	
			forward stop reverse	① ② ③	XAL-B339	
			up stop close	① ② ③	XAL-B321H29	
	控制按钮盒 3 Spring return push button 1 flush white (black arrow) 1 flush red 1 flush back (white arrow)	N/O + N/C + N/O	open stop close	① ② ③	XAL-B341H29	
			-	① ② ③	XAL-B361H29	
			-	① ② ③	XAL-B363	
			-	① ② ③	XAL-B366	

样式 Style	名称 Name	触点类型 Contact	标牌标记 Color	按钮标记 Marking on push button	型号 Type	外形尺寸 Outline Dimensions
	控制按钮盒 1green flush pushbutton spring return	N/O	Start	●	XDL-D101H29	
		N/O	-	●	XDL-D102	
		N/O	-	●	XDL-D103	
		N/O	-	●	XDL-D101	
	控制按钮盒 1green flush pushbutton spring return	N/C	-	●	XDL-D112	
		N/C	Stop	●	XDL-D111H29	
		N/C	-	●	XDL-D114	
	控制按钮盒 1red mushroom head pushbutton Φ40mm latching Trun to release	N/C	Energiebct Stop	-	XDL-D164H29	
			-	-	XDL-D164	
			Energiebct Stop	-	XDL-K164H29	
			-	-	XDL-K164	
	控制按钮盒 1red mushroom head pushbutton Φ40mm latching Trun to release	N/C	Energiebct Stop	● Red	XDL-D174H29	
			-	● Red	XDL-D174	
			Energiebct Stop	● Red	XDL-K174H29	
			-	● Red	XDL-K174	
	控制按钮盒 1Selector switch 2-position stay put standard black handle	N/C	Energiebct Stop	● Red	XDL-D184H29	
			-	● Red	XDL-D184	
			Energiebct Stop	● Red	XDL-K184H29	
			-	● Red	XDL-K184	

样式 Style	名称 Name	触点类型 Contact	标牌标记 Color	按钮标记 Marking on push button	型号 Type	外形尺寸 Outline Dimensions
	控制按钮盒 2 Spring return push button 1 flush green 1 flush red	旋钮 Selector	start stop	-	XDL-D132H29	
			I O	-	XDL-D134H29	
		钥匙钮 Keylock Selector	start stop	-	XDL-D142H29	
			I O	-	XDL-D144H29	
	控制按钮盒 2 Spring return push button 1 flush green 1 flush red	N/O + N/C	open close	● ●	XDL-D241H29	
			Stop Start	● ●	XDL-D211H29	
			-	● ●	XDL-D213	
			-	● ●	XDL-D215	
	控制按钮盒 2 Spring return push button 1 flush green 1 flush red	N/O + N/C	-	⊕ ⊖	XDL-D223	
			-	⊕ ⊖	XDL-D225	
	控制按钮盒 3 Spring return push button 1 flush white (black arrow) 1 flush red 1 flush back (white arrow)	N/O + N/C + N/O	-	⊕ ⊖ ⊕	XDL-D324	
			-	⊕ ⊖ ⊕	XDL-D334	
			-	● ● ●	XDL-D339	
			forward stop reverse	● ● ●	XDL-D311H29	
			up stop close	● ● ●	XDL-D321H29	
			open stop close	● ● ●	XDL-D341H29	
	控制按钮盒 3 Spring return push button 1 flush white (black arrow) 1 flush red 1 flush back (white arrow)	N/O + N/C + N/O	-	⊕ ● ●	XDL-D361H29	
			-	⊕ ● ●	XDL-D363	
			-	⊕ ● ●	XDL-D366	

样式 Style	名称 Name	说明 Remarks
	XAC-A471	
	XAC-A2713	
	XAC-A671	
	XAC-A871	
	XAC-A1071	
	XAC-A1271	

样式 Style	名称 Name	说明 Remarks
	COB61	
	COB61 A	
	COB62 A	
	COB64	
	COB63 A	
	COB64 A	

样式 Style	名称 Name	说明 Remarks
	LA137-T-11	
	LA137-T-11D	
	LA137-T-11X2	
	LA137-T-11X3	
	LA137-T-11M	
	LA137-T-11ZS	
	LAV12-B-10-A	
	LAV12-B-10-S LAV12-P-10-S	
	LAV16-B-10-S LAV16-B-10-N	
	LAV19-F-10-S LAV19-F-10-N	
	LAV19-H-10-S LAV19-H-10-N	
	LA22F-11M-S LA22F-11Z-S	

样式 Style	名称 Name	说明 Remarks	样式 Style	名称 Name	说明 Remarks
	标牌框(25×11) (25×18) Brand frame	安装在Φ22的指示灯，按钮上作符号或文字说明用。抽出式结构，可更换标志纸。 Hang it on the push button or Φ22 pilot light, for symbol or text explanation. Structure of putting out, which can change signed paper		防护罩 Switch Guard 适用于Φ22圆形方形按钮 For Φ22 circular and square 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.
	面板塞(Φ22) Panel plug (Φ22)	用于装饰预留孔或多余孔 For blocking up prepared or useless holes on the panel		自锁模块 Self-locking module	适用于LA137-B/E系列按钮 Applicable for LA137-B/E button
	防污罩 Antifouling cover	适用于LA137-A/B/C/D系列按钮 Applicable for LA137-A/B/C/D button		开关触点 Contact of the switch	适用于LA137-D系列按钮 Applicable for LA137-D button
	支架 Support	适用于LA137-E系列按钮 Applicable for LA137-E button		开关触点 Contact of the switch	适用于LA137-B/E系列按钮 Applicable for LA137-B/E button
	支架 Support	适用于LA137-B系列按钮 Applicable for LA137-B button		开关触点 Contact of the switch	适用于LA137-C/A系列按钮 Applicable for LA137-C/A button
	支架 Support	适用于LA137-A系列按钮 Applicable for LA137-A button		灯座 Lamp holder	适用于LA137-C/A系列按钮 Applicable for LA137-C/A button
	支架 Support	适用于LA137-C系列按钮 Applicable for LA137-C button		带灯机构 Mechanism with light	带灯机构分普通型和超短型，适用于A、B、C、D型所有带灯按钮。 There are two types of common and super short type in mechanism with light, for A、B、C、D push button with light

备忘录：