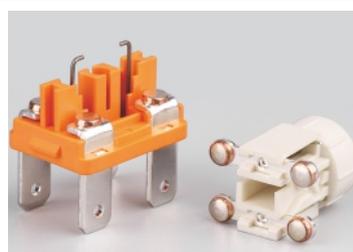


金属按键，镀铬边框



加粗镀银脚



加粗加大银触点



专用插件，接线方便

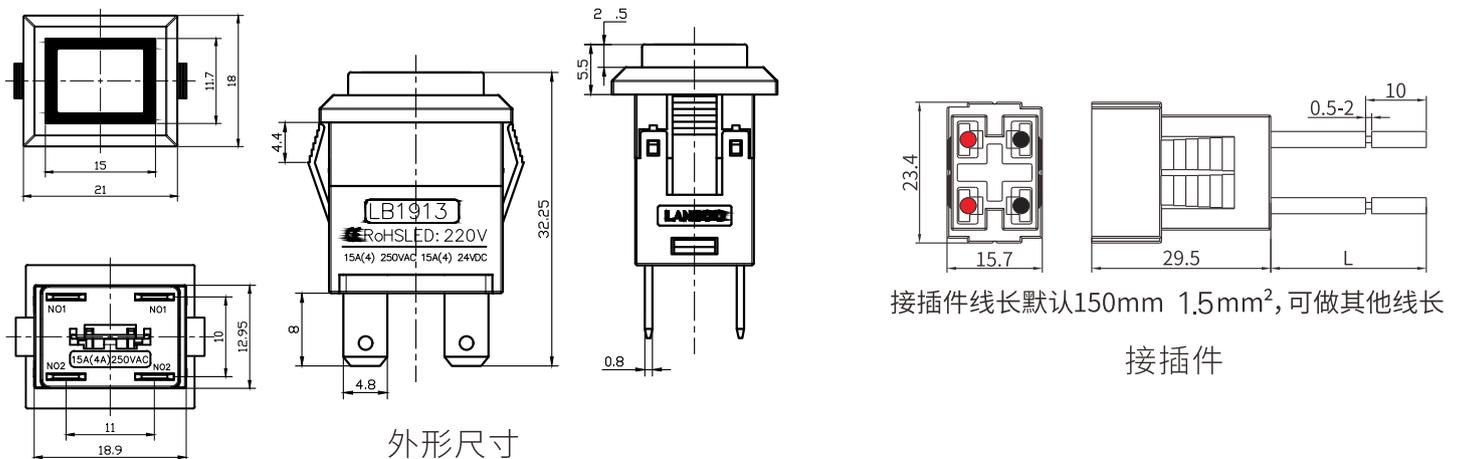
型号说明/选型，写法举例：LB1913-G10Z/B9-24V(L)

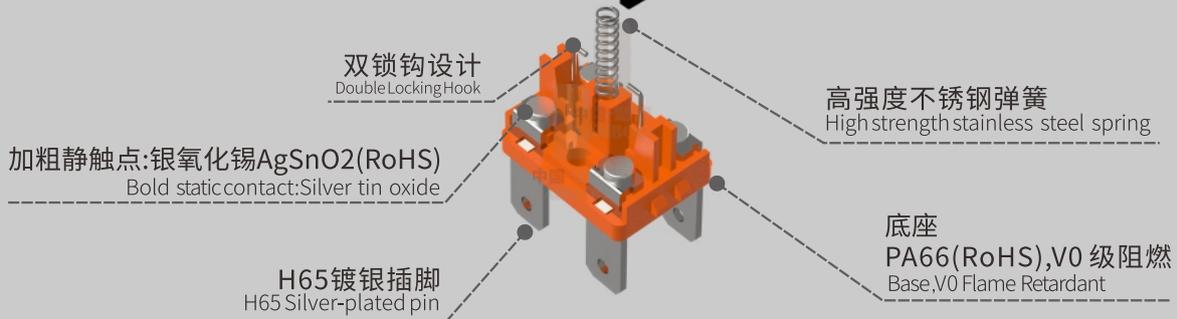
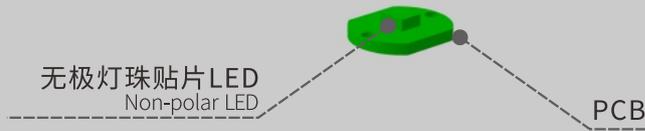
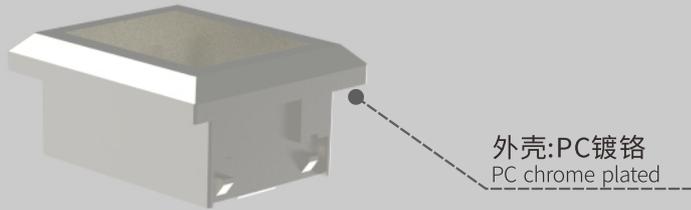
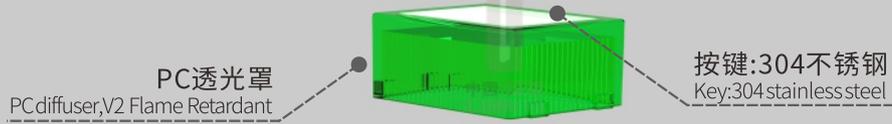
对应编号	LB 1	●● 2	—	● 3	●● 4	● 5	/	● 6	●● 7	L 8
1	LB	LANBOO 蓝波代码								
2	安装孔径	1913—19*13mm方形按钮系列								
3	头部形状	G—高头								
4	开关组合	20—2NO常开触点，慢动双触点								
5	动作形式	Z—自锁式（保持式），F—自复式（点动式）								
6	发光颜色	R—红色、G—绿色、B—蓝色，定制：Y—黄色、W—白色								
7	LED 电压	9-24V、220V,定制：3-8V、25-48V、110V,AC/DC 通用								
8	(L)	内部代码								

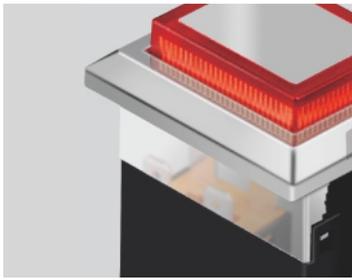
性能参数

开孔直径	对应孔径+0.3mm,例如：LB1913为19.3*13.3mm
外壳	PC镀铬 (RoHS)
按键	304不锈钢 (RoHS)
透光材料	PC(RoHS),V2级阻燃
触点	银氧化锡AgSnO2(RoHS)
底座	PA66(RoHS),V0 级阻燃
引脚	H65 镀银 (RoHS)
安装面板厚度	≤3.5mm

动作行程	总行程: 3.5±0.2mm,接通过程: 1.3±0.2mm	
按压力	7.5±0.8N	
接线形式	引脚式, 可选配套接插件	
耐焊性	≤380°C(25~50W 电烙铁) ≤2 秒	
插片可焊性试验	各引脚分别焊接1mm ² 电线, 80N 正向拉力后, 无脱落	
与线束的配合试验	150mm线长, ≤50mΩ, LED灯通电无闪烁, 拉开力40~70N	
引脚反向推力	≥80N无位移, 1min	
头部防脱顶牛	≥150N,1min	
工作环境温度	-25°C~+55°C,非真空状态、不结冰情况下	
工作环境湿度	45~90%RH	
贮存环境温度	包装完好情况下, -40°C~+55°C	
贮存环境湿度	包装完好情况下, 45~90%RH	
约定发热电流	I _{th} :20A,250VAC	
电阻性负载	AC-15:110V/220V:15A	DC-13:12V/24V:15A
电感性负载	AC-15:110V/220V:4A	DC-13:110V:4A
接触电阻	≤50mΩ	
绝缘电阻	≥1000MΩ	
抗电强度(工频耐压)	3000VAC,50HZ,1min	
触点最小适用负载	3V AC/DC,5mA(参考值, 取决于环境与负载情况)	
耐振性	XYZ 三向, 60HZ,振幅 2mm	
产品防跌落	头部竖直跌落 1 米, 3 次, 能正常工作	
包装跌落	600mm 高度连续跌落 4 次, 产品无损坏	
温升	按 GB/T14048.5 标准中 8.3.3.3 条款	
盐雾试验	72h,3 个周期, (参考 GB/T 2423.18-2012)	
低温试验	-40°C,96h,接触电阻≤200mΩ、按压力变化值≤30%,LED 正常	
高温试验	80°C,96h,接触电阻≤200mΩ、按压力变化值≤30%,LED 正常	
高低温冲击试验 (含LED灯加速老化试验)	-40~+85°C,85%RH,40min/循环, 50个循环, 接触电阻≤200mΩ、按压力变化值≤30%,LED正常	
电气寿命	阻性负载 (参考GB/T14048.5)AC220V/15A/DC24V/15A:2万次; AC220V/8A/DC24V/8A:4万次; AC220V/3A/DC24V/3A:10万次	
机械寿命	自锁: 10万次, 自复: 20万次, (参考GB/T14048.5)	
极限按压测试	在底部保持 5s 时间, 再松开, 4 次/min,进行 2000 次试验	
ESD静电	人体模式: 2KV,可定制 8KV	
LED额定电流	≤24V,≤20mA;> 24V,≤10mA	
LED灯珠类型	贴片无极双芯片LED	
LED降压方式	内置降压电阻	
LED寿命	≥50000h(参考值)	
产品认证	CE RoHS(定制) REACH(定制)	
专利号	ZL201720076061.5、ZL201821492330.7、CN201730026631.5	
质保	66 个月	



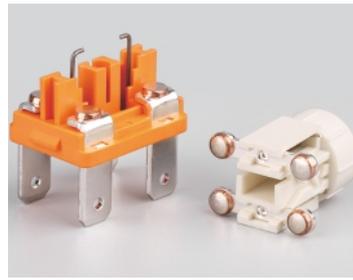




Metal head



Silver plated pins



Silver Contact



Connector

Model Description/Selection, Example:LB1913-G10Z/B9-24V(L)

The Corresponding Number	LB	●●	—	●	●●	●	/	●	●●	L
	1	2		3	4	5		6	7	8
1	LB	LANBOO								
2	Install Diameter	1913-19*13mmsquare button series								
3	Head Shape	Tall head								
4	Switch Combination	20- 2NO normally open contact, slow-moving double contact								
5	Operation Type	Latching,Momentary								
6	LED Color	R -Red, G -Green, B -Blue, Custom: Y -Yellow, W -White								
7	LED Voltage	9-24V, 220V, customized: 3-8V, 25-48V, 110V, AC/DC general purpose								
8	(L)	Internal code								

The performance parameters

Hole Diameter	The corresponding aperture is +0.3mm, for example: LB1913 is 19.3*13.3mm
Shell	PC Chrome Plating (RoHS)
Key	304 Stainless steel (RoHS)
Pervious To Light Material	PC (RoHS), V2 flame retardant
Contact Material	AgSnO2 silver oxide (RoHS)
Base Seat	PA66 (RoHS), Grade V0 flame retardant
Pins Material	H65 Silver Plating (RoHS)
Mounting Panel Thickness	≤3.5mm

Action Stroke	Total stroke: 3.5±0.2mm, connecting stroke: 1.3±0.2mm	
Operation Pressure	7.5±0.8N	
Connection Mode	Pins, Special connector can be selected	
Soldering Resistance	≤380°C(25~50W Soldering iron) ≤2 秒	
Pins Welding Strength	Each pin is welded with 1mm ² wire respectively, no shedding after 80N forward tension	
Matching test with wiring harness	Wires length 150 mm, ≤50mΩ, Power on, LED flicker free, Pull force: LED 40 ~ 70N	
Pin Reverse Thrust	≥80N, 1min	
Head Anti-off Strength	≥150N,1min	
Working Environment Temperature	-25°C~+55°C, Non-vacuum, non-freeze	
Working Environment Humidity	45~90%RH	
Storage Ambient Temperature	Packing in good condition, -40°C~+55°C	
Storage Ambient Humidity	Packing in good condition, 45~90%RH	
Rated thermal current	Ith:20A,250VAC	
Resistive Load	AC-15:110V/220V:15A	DC-13:12V/24V:15A
Inductive Load	AC-15:110V/220V:4A	DC-13:110V:4A
Contact Resistance	≤50mΩ	
Insulation Resistance	≥1000MΩ	
Dielectric Strength	3000VAC,50HZ,1min	
Min. Applicable Load For Contact	3V AC/DC,5mA(Reference value, depending on the environment and load)	
Resistance To Vibration	XYZ, 60HZ,The amplitude 2mm	
Product Fall-Proof	Head vertical drop 1 meter, 3 times, can work normally	
Packaging Fall-Proof	600mm height continuous drop for 4 times, no damage to the product	
Temperature Rise	According to clause 8.3.3.3 in GB/T14048.5 standard	
Salt Spray Test	72H, 3 cycles (refer to GB/T 2423.18-2012)	
Low Temperature Test	-40°C, 96h, Contact resistance≤200mΩ. Change in pressure≤30%, LED Normal	
High Temperature Test	80°C, 96h, Contact resistance≤200mΩ. Change in pressure≤30%, LED Normal	
High And Low Temperature Impact Test	-40~+85°C, 85%RH, 40min/Circulation, 50 Circulation, Contact resistance≤200mΩ. Change in pressure≤30% LED Normal	
Electrical Life	Resistive load (reference GB/T14048.5) AC220V/15A, DC24V/15A: 20,000 times;AC220V/8A, DC24V/8A: 40,000 times;AC220V/3A, DC24V/3A: 100,000 times	
Mechanical Life	Latching: 10,0000 times, Momentary: 20,0000 times, (GB/T14048.5)	
Limit Press Test	Keep 5s at the bottom, release again, 4 times /min, conduct 2000 tests	
ESD Electrostatic	Body mode: 2KV, customizable 8KV	
LED Rated Current	≤24V, ≤20mA; >24V, ≤10mA	
LED Type	Chip nonpolar dual chip LED	
LED Resistance	Built-in Resistance	
LED Life	≥50000h(Reference)	
Certificate	CE RoHS REACH	
Patent No.	ZL201720076061.5、ZL201821492330.7、CN201730026631.5	
Quality Assurance	66 Months	

