



可配专用插件



短款21.3mm



多种发光颜色

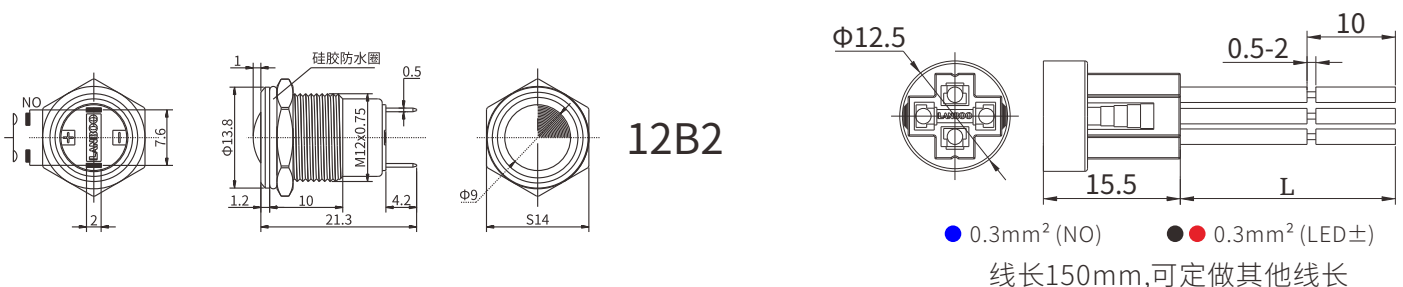
型号说明/选型，写法举例：LB12B2-G10Z/EG5-24V/N(L)

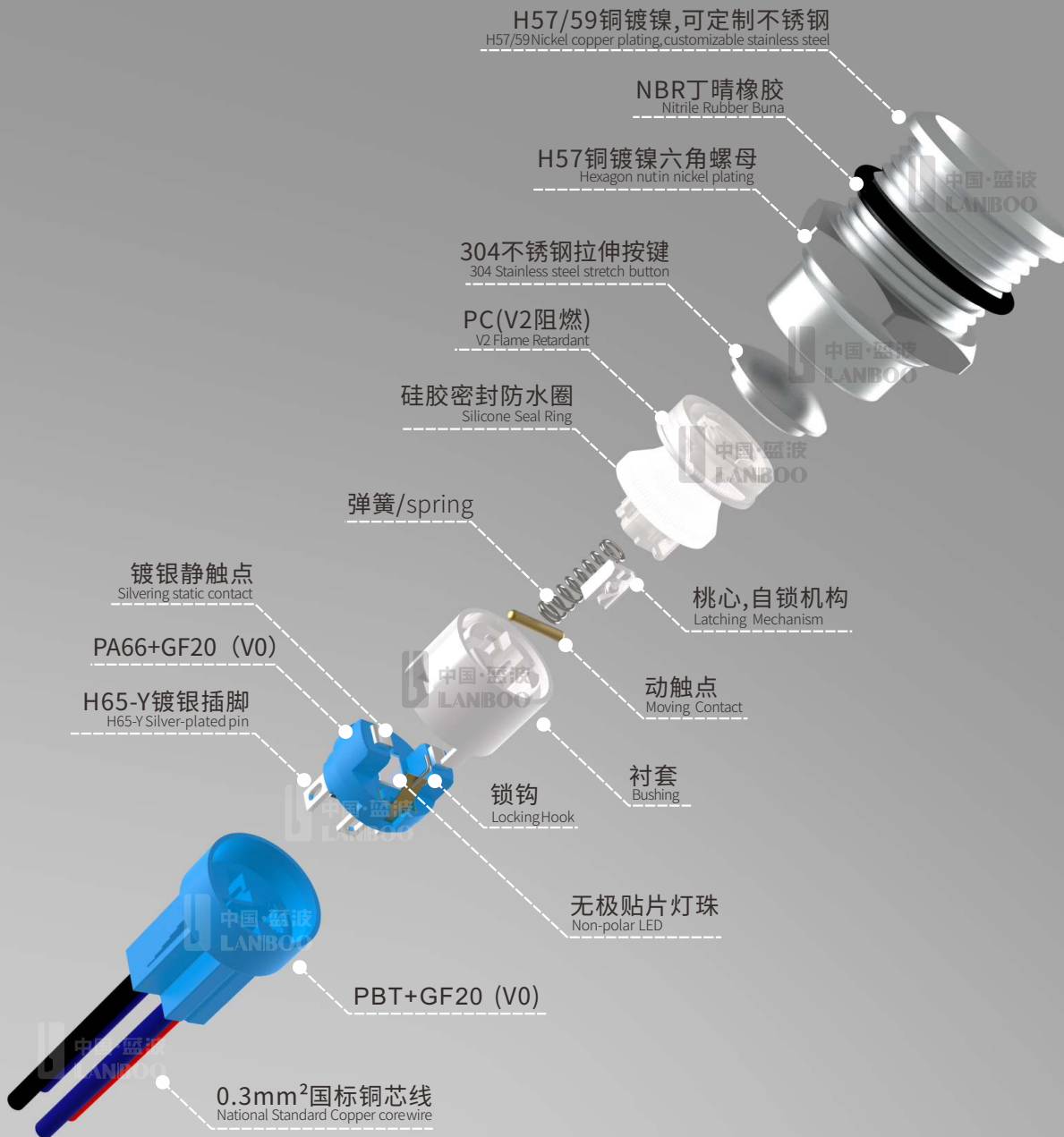
对应编号	LB	●●	●	—	●	●●	●	/	●	●	●●	/	●	L	
	1	2	3		4	5	6		7	8	9		10	11	
1	LB	LANBOO 蓝波代码													
2	安装孔径	12mm													
3	系列号	B2-12B2,小型短款自锁复位经济型系列													
4	头部形状	P-平头、G-高头													
5	开关组合	10-1NO 常开触点,慢动双触点													
6	动作形式	Z-自锁式(保持式), F-自复式(点动式)													
7	发光形状	E-环形, DY-电源符号, 定制: D-单点(中心灯)													
8	发光颜色	R-红色、G-绿色、B-蓝色, 定制: Y-黄色、W-白色													
9	LED 电压	5-24V、220V(外接电阻), 定制: 3V、25-48V 与 110V(外接电阻) AC/DC 通用													
10	外壳材质	N-铜镀镍, 可定制: S-不锈钢													
11	(L)	内部代码													

性能参数

开孔直径	对应孔径+0.2mm,例如: LB12B2为12.2mm
外壳	H57/59铜镀镍, 可定制: 304不锈钢 (RoHS)
按键	304不锈钢 (RoHS)
透光材料	PC(RoHS),V2 级阻燃
螺母	H57/59 铜镀镍, 可定制: 304 不锈钢 (RoHS)
O型圈	NBR,可定制: 硅胶 (RoHS)
触点	紫铜镀金/银 (RoHS)
底座	PA66(RoHS),V0 级阻燃

引脚	H65 镀银 (RoHS)	
安装面板厚度	≤8mm	
拧紧力矩	0.8-1.2N.m	
螺纹验证	将螺母锁紧至垫圈明显变形, 然后拆下, 如此循环 5 次, 无异常	
动作行程	总行程: 2.8±0.2mm, 接通过程: 0.85±0.15mm	
按压力	4±0.5N	
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, 30N 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: 无灯 25~40N, 带灯 40~60N	
引脚反向推力	≥50N 无位移	
头部防脱顶牛	≥200N	
工作环境温度	-40°C~+80°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	
防护等级	防水 IP65, 防撞 IK08(参考 GB/T 20138)	
约定发热电流	Ith:3A, 250VAC	
电阻性负载	AC-12:110V:1A, 220V:0.5A	DC-13:12V/24V:2A
电感性负载	AC-12:110V/220V:0.3A	DC-13:110V:0.2A
接触电阻	≤50mΩ	
绝缘电阻	≥1000MΩ	
抗电强度 (工频耐压)	1500VAC, 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	48h, 2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°C~+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 AC220V/0.5A DC24V/2A: 1 万次, (参考 GB/T14048.5)	
机械寿命	自锁: 10 万次, 自复: 50 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	5-24V 内置微型降压电阻, >24V 外接电阻	
LED 寿命	≥50000h(参考值)	
产品认证	CCC CE RoHS(定制) REACH(定制)	
专利号	ZL201730146781.X、ZL201621035293.8	
质保	66 个月	







Connector



21.3mm



Colourful

Model Description/Selection, Example: LB12B2-G10Z/EG5-24V/N(L)

The Corresponding Number		LB	●●	●	-	●	●●	●	/	●	●	●●	/	●	L
		1	2	3		4	5	6		7	8	9		10	11
1	LB	LANBOO													
2	Install Diameter	12mm													
3	Series No.	B2-12 B2, Small short self - locking reset economy series													
4	Head Shape	P - flat head, G - tall head													
5	Switch Combination	10 - 1NO normally open contact, slow-moving double contact													
6	Action Form	Latching, Momentary													
7	Luminous Shape	E - Ring, DY - Power symbol, Customization: D-Single point (Center light)													
8	LED Color	R -Red, G -Green, B -Blue, Custom: Y -Yellow, W -White													
9	LED Voltage	5-24V, 220V (external resistance), customized: 3V, 25-48V and 110V (external resistance), AC/DC universal													
10	Shell Material	N -Copper chrome, Customizable: S -Stainless steel													
11	(L)	Internal code													

The performance parameters

Hole Diameter	Corresponding aperture +0.2mm, for example: LB12B2 is 12.2mm
Shell	H57/59 Nickel copper plating, customizable: 304 stainless steel (RoHS)
Key	304 Stainless steel (RoHS)
Pervious To Light Material	PC (RoHS), V2 flame retardant
Nut	H57/59 Nickel copper plating, customizable: 304 stainless steel (RoHS)
O-Ring	NBR, customizable: Silica gel (RoHS)
Contact Material	Copper plated/Silver (RoHS)
Base Seat	PA66 (RoHS), Grade V0 flame retardant

Pins	H65 Silver Plating (RoHS)	
Mounting Panel Thickness	≤8mm	
Nut Tightening torque	0.8-1.2N.m	
Thread Verification	Lock the nut until the washer is visibly deformed, then remove the nut. Repeat 5 times no abnormalities	
Action Stroke	Total stroke: 2.8±0.2mm, connecting stroke: 0.85±0.15mm	
Operation Pressure	4±0.5N	
Connection Mode	Pins , Special connector can be selected	
Soldering Resistance	≤380°C(25~50W) ≤2 Seconds,	
Pins Welding Strength	Each pin is welded with 1mm ² wire, 30N forward tension without falling off	
Matching test with wiring harness	Wires length 150 mm, ≤ 50mΩ, Power on, LED flicker free, Pull force: Without LED 25 ~ 40N, With LED 40 ~ 60N	
Pin Reverse Thrust	≥50N	
Head Anti-off Strength	≥200N	
Working Environment Temperature	-40°C~+80°C, Non-vacuum state, Without freezing	
Working Environment Humidity	45~90%RH	
Storage Ambient Temperature	Packing in good condition, -40°C~+55°C	
Storage Environment Humidity	Packing in good condition, 45~90%RH	
Protection Level	IP65, IK08(GB/T 20138)	
Rated Thermal Current	I _{th} :3A, 250VAC	
Resistive Load	AC-12:110V:1A, 220V:0.5A	DC-13:12V/24V:2A
Inductive Load	AC-12:110V/220V:0.3A	DC-13:110V:0.2A
Contact Resistance	≤50mΩ	
Insulation Resistance	≥1000MΩ	
Dielectric Strength	1500VAC, 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	48h, 2 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 AC220V/0.5A, DC24V/2A: 10,000 times (Refer to GB/T14048.5)	
Mechanical Life	Latching: 100,000times, Momentary: 500,000times (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	Patch nonpolar twin chip LED	
LED Resistance	5-24V Built-in Resistance, >24V An External Resistor	
LED Life	≥50000h(Reference)	
Certificate	CCC CE RoHS REACH	
Patent No.	ZL201730146781.X、ZL201621035293.8	
Quality Assurance	66 Months	

