



广州市番禺宝联实业有限公司

Bao-Lian Industry Co.,Ltd

规格书 Specification

品 名 Product: BL 小摇杆

BL Joystick with PCB

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BL Joystick with PCB

型号 Ordering Information

产品号 Product ID	备注 Remark
10601001	Use the 35mm solid red round ball
10601004	Use the 35mm solid black round ball

备注：球头选择 Joystick knob options:

- 水晶球头：粉红, 黄, 蓝, 绿, 透明;
Bubble ball options: pink, yellow, blue, green, clear
直径 Diameter options: $\Phi 43\text{mm}$, $\Phi 45\text{mm}$, $\Phi 40\text{mm}$, $\Phi 35\text{mm}$,
- 35mm 实色圆球头：红, 蓝, 绿, 黑
Solid round ball options: red, blue, green, black
- 椭圆球头：红, 黑
Ellipse ball options: red, black

规格 Ratings(Switch)

开关部限定 Contact ratings

DC'30V 0.25A (最佳电阻负载 Best resistive load)

额定值是以下列条件进行实验的情况 Rated values are obtained from tests conducted under the below conditions:

- 负载 Load：电阻负载 Resistive load
- 安装状态 Setup conditions：无震动、无冲击状态 No vibration and shock
- 温度 Temperature：室温 Room temperature
- 操作频率 Operating frequency：420 次 times/min

摆动特性 Operating Characteristics

项目 Feature	规格 Spec.	单位 Unit
摆动力度 Operating force	1.56 ± 0.30	N
摆动方向 Operating direction	360	度 degree
摆动外径 Operating diameter	最大摆动外径 50 ± 5	mm



BL Joystick with PCB

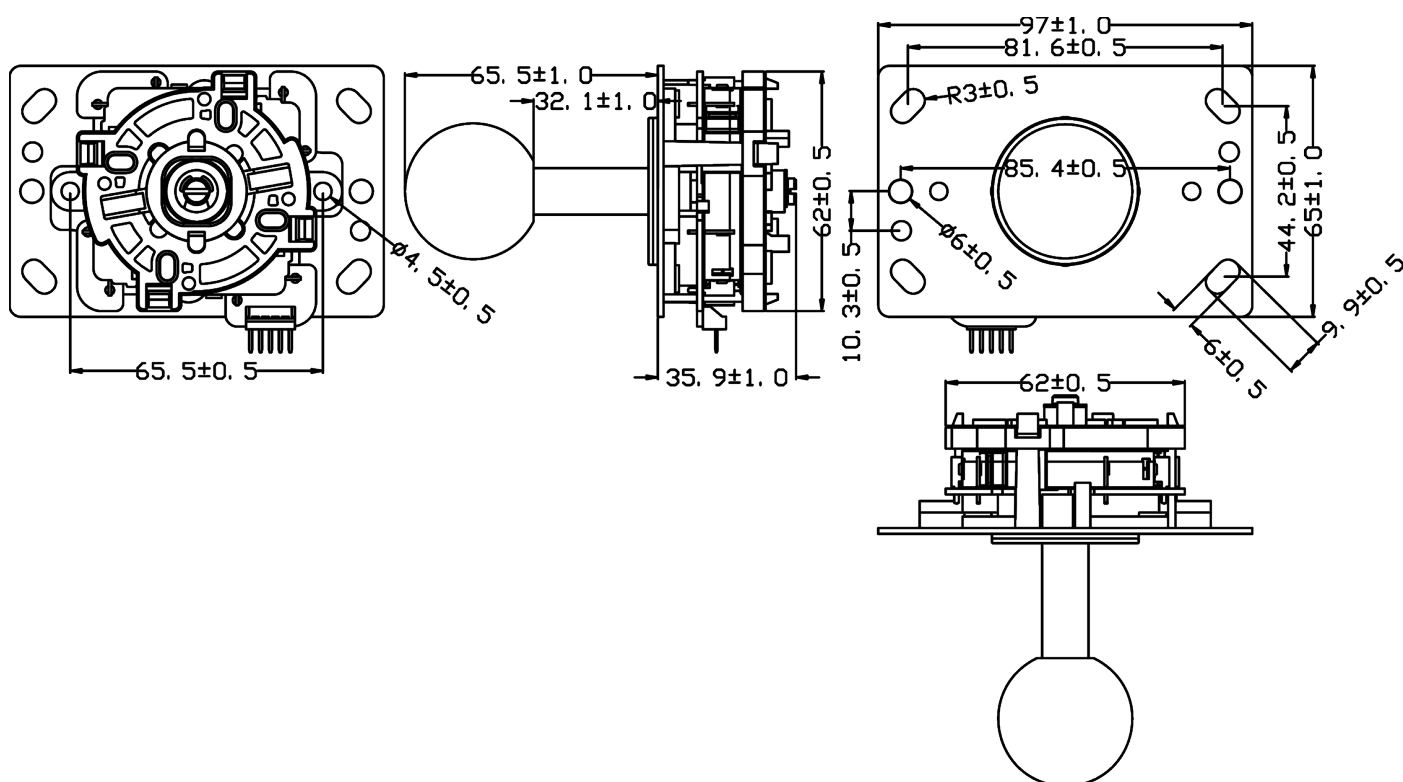
性能 Characteristics(Switch)

种类(Type)		摇杆开关(Switch)
容许操作频率 Allowable operating freq.	机械性 Mechanical	200 次 operations/min
	电气性 Electrical	200 次 operations/min
耐久性 Durability	机械性 Mechanical	500 万次以上 Over 5,000,000 operations
	电气性 Electrical	10 万次以上 Over 100,000 operations (测试条件 Test condition: 5V 1mA)
导通电阻 Conducting resistance		≤400 mΩ
重量 Weight (N.W.)		195±5g
使用环境温度 Operating temperature		-10~+55℃ (不可结冰、结霜 No icing and condensation)
使用环境湿度 Operating humidity		30~80±3%RH
保存环境温度 Storage temperature		-20~+55℃ (不可结冰、结霜 No icing and condensation)
保存环境湿度 Storage humidity		30~80±3%RH



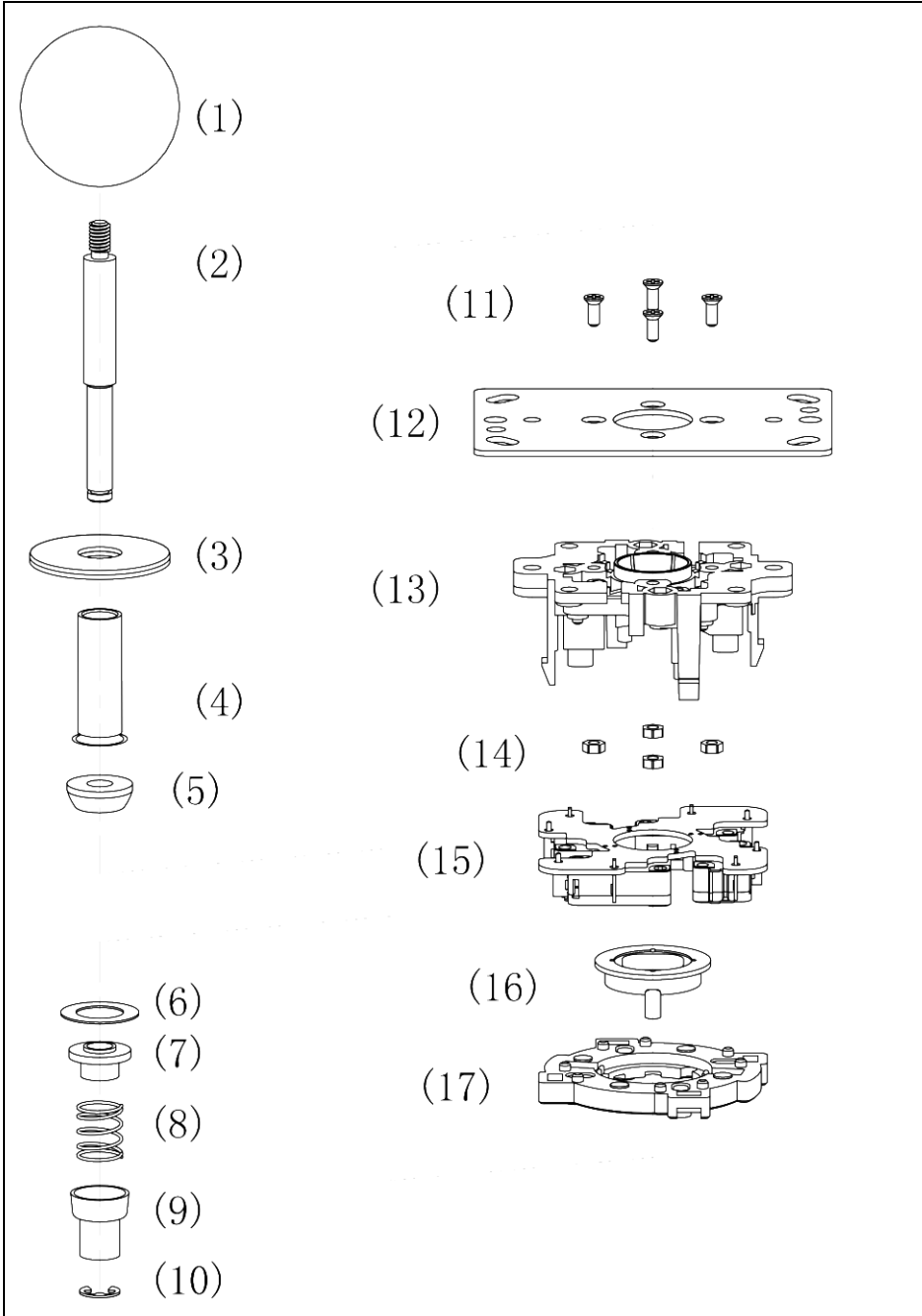
BL Joystick with PCB

外观尺寸 Dimensions



产品组装图

Assembly

	组装零件列表 Parts list: (1) 20606014*1 (2) 20606208*1 (3) 20606199*1 (4) 20606211*1 (5) 20606200*1 (6) 20606204*1 (7) 20606198*1 (8) 20606203*1 (9) 20606197*1 (10) 20603050*1 (11) 20807121*4 (12) 20606219*1 (13) 20606173*1 (14) 20807132*4 (15) 20606259*1 (16) 20606172*1 (17) 20606171*1
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BL Joystick with PCB

使用须知 Usage guide

BL 小摇杆接线说明 BL Joystick with PCB wiring instructions:

接上电路板上的 5PIN 接口，控制摇杆上、下、左、右工作信号。

Connect the 5PIN connector on PCB, control the joystick working directions: front, back, left and right.

BL 小摇杆清洁 BL Joystick with PCB cleaning instructions:

摇杆清洁时可拆出 E 型扣环，用干净的软布擦拭铁棒、上下弹簧座、胶锥体、主体腕，擦拭干净后在胶锥体和主体腕内加入专用润滑脂，按原有结构装回后即可；当摇杆回位性有点缓慢或灵敏度不够时，是时候该清洁啦！

Disassemble the E-shaped ring; use a clean soft cloth to wipe the metal stick, upper and lower spring case, plastic cone and the main arm. After cleaning, add specialized lubricating oil to the plastic and the main arm and assemble all parts back to their initial position. Cleaning is suggested when lagging is present at use or sensitivity is low.

BL 小摇杆清洁注意事项 BL Joystick with PCB cleaning precautions:

1. 准备清洁时需断开接线 Before cleaning, please disconnect all electrical input
2. 拆开 E 型扣环时需注意防止散件掉出 When disassembling the E-shaped ring, please look out for parts coming off
3. 清洁时不要使用腐蚀剂 Please do not use preservatives while cleaning
4. 清洁时注意不要让液体流入微动内 Do not put micro-switches in contact with any liquid
5. 清洁后需在胶锥体和主体腕内加入专用润滑脂 Specialized lubricating oil should be added to the plastic cone and the main arm after cleaning.