

| 序号 | 零件名称 | 数量 | 材质、规格       | 颜色\镀层 | 备注 |
|----|------|----|-------------|-------|----|
| ⑦  | 内滑块  | 1  | POM         | 黑色    |    |
| ⑥  | 焊锡脚  | 3  | 黄铜 t=0.30mm | 镀银    |    |
| ⑤  | 底座   | 1  | PPA         | 黑色    |    |
| ④  | 盖子   | 1  | 尼龙          | 黑色    |    |
| ③  | 弹簧   | 1  | 钢丝          |       |    |
| ②  | 簧片   | 1  | 覆银铜         | 镀银    |    |
| ①  | 按柄   | 1  | POM         | 黑色    |    |

**首韩** SHOUHAN  
**深圳市首韩科技有限公司**

**限位开关**

**KFC-V-306-WJ**

|    |           |
|----|-----------|
| 设计 | 李春风       |
| 日期 | 2021-9-17 |
| 审核 | 钟德华       |
| 日期 | 2021-9-17 |
| 批准 | 罗孝金       |
| 日期 | 2021-9-17 |

版本:A1 单位:mm 比例:1:1



深圳市首韩科技有限公司

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# 承 认 书

## SPECIFICATION FOR APPROVAL

客 户 Customer:

\_\_\_\_\_

产品名称 Project:

限位开关

\_\_\_\_\_

规格型号 Part No:


KFC-V-116

\_\_\_\_\_

### 贵公司承认印 Approval signatures

| 料 号/Part No. | 签 章/Signatures |
|--------------|----------------|
|              |                |

日期 Date:

|             |     |  |
|-------------|-----|--|
| 拟制/Drawn    | 李春风 |  |
| 审核/Check    | 钟华华 |  |
| 批准/Approved | 罗孝金 |  |

## 规格书 SPECIFICATION

### 1. 一般特性 General Characteristics

- 1.1 额定值(Rating Value): DC 16V 50mA
- 1.2 工作温度(Work Temperature Range):  $-30^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- 1.3 存贮温度(Store Temperature Range):  $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$
- 1.4 正常测试条件(未有特殊说明量测在以下条件进行):

General test condition (Tests and measurements shall be made under the following standard conditions unless otherwise specified):

正常温度:  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$       相对湿度: 45%~85% RH      气压: 8,600~10,600 帕  
Temperature:  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$       Relative humidity: 45%~85%      Air pressure: 8,600~10,600 pa

### 2. 产品外观及尺寸要求 Appearance & Dimension Requirement

- 2.1 产品外形结构紧凑,无配合不良。  
The structure of product is compact, and assembly of parts has no badness.
- 2.2 产品塑胶部件无严重缩水、披锋、欠注、斑点、破损或变形现象。  
The plastic parts of product have no serious defects such as very serious shrink, scarcity, fleck, disrepair, transmutation, etc.
- 2.3 产品引脚和外壳无严重氧化、脏污、变形、毛刺或电镀不良。  
Lead feet and shell have no serious defects such as oxidation, smudge, disrepair, burr, defects on plating.
- 2.4 开关操作顺畅,节奏感强,无明显卡塞现象。  
Operating switch is unhindered, rhythmmed, and there is not palpable clag.
- 2.5 产品结构及尺寸参见产品规格图纸。  
Construction and dimensions: Refer to individual product drawing.

### 3. 电气特性 Electronic Characteristics

| No. | 项目<br>Item                           | 测试方法<br>Test Method   | 测试设备<br>Equipment                     | 特性要求<br>Requirements  |
|-----|--------------------------------------|---|---------------------------------------|---|
| 3.1 | 接触电阻<br>Contact Resistance           | 在低电流 ( $\leq 100\text{mA}$ ) 条件下测试。<br>Measured at low current (100mA or less).   | 低电阻测试仪<br>Low Resistance Meter        | 200m $\Omega$ MAX   |
| 3.2 | 绝缘阻抗<br>Insulation Resistance        | 测试相邻引脚之间,引脚与外壳之间的绝缘阻抗。<br>Measurement shall be made between adjacent terminals, between terminal and shell.   | 绝缘测试机<br>Insulation Resistance Tester | 50M $\Omega$ MIN  |
| 3.3 | 耐压测试<br>Dielectric Withstand Voltage | 输入一定电压(50~60Hz,电压值 AC 250V)1分钟,漏电流为2mA,测试邻近端子间。<br>Apply certain voltage (50~60Hz, AC 250V) for 1 minute between adjacent contacts of the connector with 2mA leakage sensitivity. | 耐压测试机<br>Puncture Tester              | 没有绝缘破坏。<br>电弧等异常。<br>No arcing, break down and damaging insulation. |

## 4. 机械特性 Mechanical Characteristics

| No. | 项目<br>Item             | 测试方法<br>Test Method   | 测试设备<br>Equipment  | 特性要求<br>Requirements |
|-----|------------------------|---|--------------------|----------------------|
| 4.1 | 操作力<br>Operation Force | <p>逐渐施力操作开关按键，测量开关到达全部工作行程时所需的最大操作力度。</p> <p>Operate the keystroke of the switch and then increase press strength gradually, Measured maximum operation force while the travel of the switch is full.</p> | 测力计<br>Force Gauge | 40±20gf              |

## 5. 可靠性测试 Reliability trial

| No. | 项目<br>Item                           | 测试方法<br>Test Method   | 测试设备<br>Equipment    | 特性要求<br>Requirements   |
|-----|--------------------------------------|---|----------------------|--|
| 5.1 | 可焊性试验<br>Solder ability Test         | <p>端子顶部被浸入焊锡炉中，温度为 260±5℃，时间 5±1 秒。</p> <p>The top of the terminals shall be dipped in the solder bath at 260±5℃ for 5±1 seconds.</p>   | 控温锡炉<br>Solder Stove | <p>引脚至少 95%上锡。</p> <p>Ninety-five percent of terminals shall be dipped.</p>  |
| 5.2 | 寿命试验<br>Operation Life               | <p>开关在寿命试验设备上以约 90 次 / 分的速度连续被操作，具体次数见规格图示。</p> <p>Switch shall be operated continuously at about 90 cycles /min without load.</p>  | 寿命试验机<br>Life Tester | <p>寿命:20000 次</p> <p>实验后:</p> <p>绝缘电阻: 10MΩ Min</p> <p>操作力: 变化在±50%内开关外观及结构无损坏。</p> <p>Life test:20000 cycles</p> <p>After test, Insulation resistance:10MΩ Min</p> <p>Operating force: Change should be within ±50% of specified value.</p> <p>No abnormalities shall be recognized in appearance and construction.</p> |
| 5.3 | 耐焊接热<br>Resistance to Soldering heat | <p>端子焊接部分浸入焊炉，焊炉温度 260± 5℃，焊接时间 5±1 秒。(焊接时不可于端子施加外力)。</p> <p>Terminals shall be dipped in the solder bath at 260±5℃ for 5±1 seconds without additional force for terminals.</p> | 控温锡炉<br>Solder Stove | <p>本体无变形，能满足于机械、电气性能。</p> <p>Appearance should be not damaged, electrical and mechanical characteristics shall be satisfied.</p>   |

## 5. 可靠性测试 Reliability trial

| No. | 项 目<br>Item                          | 测试方法<br>Test Method   | 测试设备<br>Equipment                              | 特 性 要 求<br>Requirements   |
|-----|--------------------------------------|---|--|---|
| 5.4 | 耐高温测试<br>Resistance to Heat Test     | 放置在温度 $80\pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。<br>The switch shall be stored at a temperature of $80\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.  | 高低温试验机<br>High & Low Temperature Tester        | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.5 | 耐低温测试<br>Resistance to Cold Test     | 放置在温度 $-20\pm 2^{\circ}\text{C}$ 环境中 96 小时后，再置于正常条件下 1 小时后测定。<br>The switch shall be stored at a temperature of $-20\pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour.  | 高低温试验机<br>High & Low Temperature Tester        | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.6 | 耐湿性测试<br>Resistance to Humidity Test | 放置于温度 $40\pm 2^{\circ}\text{C}$ ，相对湿度为 90~96% 环境中 96 小时后，再置于正常条件下 1 小时后测定(注意要擦去水滴)。<br>The switch shall be stored at a temperature of $40\pm 2^{\circ}\text{C}$ , relative humidity 90~96% for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour (Wipe out water drip).  | 恒温恒湿箱<br>Temperature & Humidity Tester Chamber | 外观，机械及电气性能均符合要求。<br>Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.7 | 盐雾实验<br>Salt Mist Test               | 试件在下述实验后测量：<br>1. 温度： $35\pm 5^{\circ}\text{C}$<br>2. 盐溶液浓度： $5\pm 1\%$ （质量百分比），<br>3. 试验时间：24 小时，<br>4. 试验后，将盐沉积物用水冲掉。<br>The switch shall be checked after following test:<br>1. Temperature: $35\pm 5^{\circ}\text{C}$<br>2. Salt solution: $5\pm 1\%$ (Solids by mass)<br>3. Duration: 24 hours,<br>4. After immersing, salt deposit shall be removed by running water. | 盐雾试验机<br>Salt Spray Tester                     | 在金属件上没有严重腐蚀斑点。<br>No remarkable corrosion shall be recognized in metal parts.                 |

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