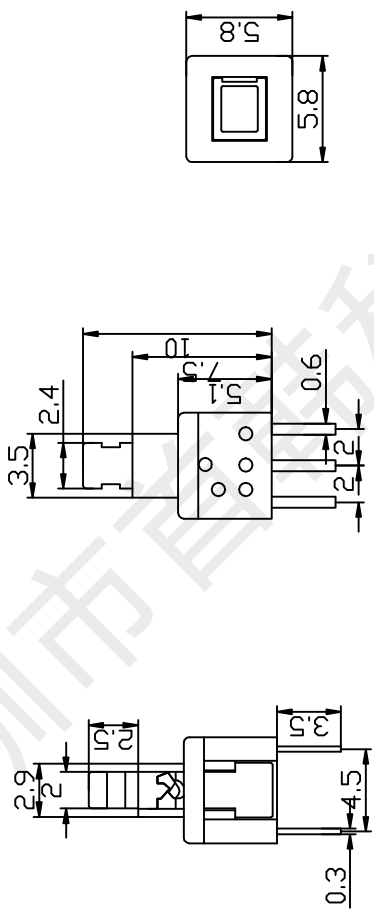


| | |
|---------|--|
| 锁定功能 | 无锁 |
| 名称及材料 | 手柄/按钮 PDM 盖板 PC 基座 PA66 针 H62(镀银) 钩 精密钢丝 弹 碳素钢 接触夹 覆合银铜皮 |
| 电路图 | <p>PUSH OFF: 1-2, 4-5 通 PUSH ON: 2-3, 5-6 通</p> |
| 印刷板开孔尺寸 | |


| | | | |
|----|----------|--|--|
| 货号 | | | |
| 名称 | 5.8 WSGT | | |
| 图号 | | | |
| 页码 | 总页数 | | |



- 1: SPECIFICATION
- 1、Rating: DC 30V 0.1A
 - 2、Contact resistance: $\leq 100m\Omega$
 - 3、Insulation resistance: $\geq 100M\Omega$ DC500V
 - 4、Withstand voltage: AC 300V(30Hz)/min
 - 5、Insertion and extraction force: $180\pm 30gf$
 - 6、life test: 5000 cycles

2: Did not note the size busstrip:

- 1.0-10.0mm $\pm 0.10mm$
- 10.0-20.0mm $\pm 0.20mm$
- 20.0-50.0mm $\pm 0.25mm$


深圳市首韩科技有限公司
 SHOUHAN

| | | |
|----|-----|-----------|
| 签字 | 批准 | 罗孝金 |
| 绘图 | 审核 | 钟华华 |
| 比例 | 日期 | 2022.1.11 |
| | 1:1 | |



深圳市首韩科技有限公司

SHENZHEN SHOUHAN TECHNOLOGY CO., LTD

Tel: 0755-27597601 Fax: 0755-27597491

承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

自锁开关

规格型号 Part No:

5.8 WSGT

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 | |

1. 一般特性 General Characteristics

- 1.1 额定值(Rating Value): DC30V/0.1A
- 1.2 工作温度(Work Temperature Range): $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$
- 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 Item | 测试方法 Test Method | 测试设备 Equipment | 特性要求 Requirements |
|-----|--------------------------------------|--|---------------------------------------|--|
| 3.1 | 接触电阻 Contact Resistance | 在低电流 ($\leq 100\text{mA}$) 条件下测试. Measured at low current (100mA or less). | 低电阻测试仪 Low Resistance Meter | $100\text{m}\Omega$ max |
| 3.2 | 绝缘阻抗 Insulation Resistance | 测试相邻引脚之间, 引脚与外壳之间的绝缘阻抗(DC 500V). Measurement shall be made between adjacent terminals, between terminal and shell(DC 500V). | 绝缘测试机 Insulation Resistance Tester | $100\text{M}\Omega$ min |
| 3.3 | 耐压测试 Dielectric Withstand Voltage | 输入一定电压(30Hz, 电压值 AC 300V)1 分钟, 漏电流为 2mA, 测试邻近端子间. Apply certain voltage (30Hz, AC 300V) for 1 minute between adjacent contacts of the connector with 2mA leakage sensitivity. | 耐压测试机 Puncture Tester | 没有绝缘破坏. 电弧等异常. No arcing, break down and damaging insulation. |

4. 机械特性 Mechanical Characteristics

| No. | 项 目 Item | 测试方法 Test Method | 测试设备 Equipment | 特性要求 Requirements |
|-----|---------------------------|--|--------------------------------|----------------------|
| 4.1 | 操作力 Operation Force | 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。 Operate the keystroke of the switch and then increase press strength gradually, Measured maximum operation force while the travel of the switch is full. | 测力计 Force Gauge | 180gf±30gf |
| 4.2 | 行 程 Full travel | 垂直操作开关按键，量测开关顶端最大移动距离。 Operate the keystroke of the switch vertically, the travel distance of keystroke moving from its free position to maximum moving distance shall be measurement. | 游标卡尺 Vernier Caliper | 2.1±0.15mm |

5. 可靠性测试 Reliability trial

| No. | 项 目 Item | 测试方法 Test Method | 测试设备 Equipment | 特性要求 Requirements |
|-----|---------------------------------|--|--------------------------|---|
| 5.1 | 可焊性试验 Solder ability Test | 端子顶部被浸入焊锡炉中，温度为 230±5℃，时间 5±1 秒。 The top of the terminals shall be dipped in the solder bath at 230±5℃ for 5±1 seconds. | 控温锡炉 Solder Stove | 引脚至少 95% 上锡。 Ninety-five percent of terminals shall be dipped. |
| 5.2 | 寿命试验 Operation Life | 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。 Switch shall be operated continuously at about 90 cycles /min without load. | 寿命试验机 Life Tester | 寿命：5000 次 实验后： 绝缘电阻：10MΩ Min 操作力：变化在±50%内 开关外观及结构无损坏。 Life test: 5000 cycles After test: Insulation resistance: 10MΩ Min Operating force: Change should be within ±50% of specified value. No abnormalities shall be recognized in appearance and construction. |

5. 可靠性测试 Reliability trial

| No. | 项目 Item | 测试方法 Test Method | 测试设备 Equipment | 特性要求 Requirements |
|-----|--------------------------------------|---|--|--|
| 5.3 | 耐焊接热 Resistance to Soldering heat | 端子焊接部分浸入焊炉, 焊炉温度 $260 \pm 5^{\circ}\text{C}$, 焊接时间 5 ± 1 秒。(焊接时不可于端子施加外力)。 Terminals shall be dipped in the solder bath at $260 \pm 5^{\circ}\text{C}$ for 5 ± 1 seconds without additional force for terminals. | 控温锡炉 Solder Stove | 本体无变形, 能满足于机械、电气性能。 Appearance should be not damaged, electrical and mechanical characteristics shall be satisfied. |
| 5.4 | 耐高温测试 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。 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 High & Low Temperature Tester | 外观, 机械及电气性能均符合要求。 Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.5 | 耐低温测试 Resistance to Cold Test | 放置在温度 $-25 \pm 2^{\circ}\text{C}$ 环境中 96 小时后, 再置于正常条件下 1 小时后测定。 The switch shall be stored at a temperature of $-25 \pm 2^{\circ}\text{C}$ for 96 hours, Measurements shall be made after it be subjected to the standard conditions for 1 hour. | 高低温 试验机 High & Low Temperature Tester | 外观, 机械及电气性能均符合要求。 Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.6 | 耐湿性测试 Resistance to Humidity Test | 放置于温度 $40 \pm 2^{\circ}\text{C}$, 相对湿度为 $90 \sim 96\%$ 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)。 The switch shall be stored at a temperature of $40 \pm 2^{\circ}\text{C}$, relative humidity $90 \sim 96\%$ 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 Temperature & Humidity Tester Chamber | 外观, 机械及电气性能均符合要求。 Appearance, electrical and mechanical characteristics shall be satisfied. |
| 5.7 | 盐雾实验 Salt Mist Test | 试件在下述实验后测量: 1. 温度: $35 \pm 5^{\circ}\text{C}$ 2. 盐溶液浓度: $5 \pm 1\%$ (质量百分比), 3. 试验时间: 24 小时, 4. 试验后, 将盐沉积物用水冲掉。 The switch shall be checked after following test: 1. Temperature: $35 \pm 5^{\circ}\text{C}$ 2. Salt solution: $5 \pm 1\%$ (Solids by mass) 3. Duration: 24 hours, 4. After immersing, salt deposit shall be removed by running water. | 盐雾 试验机 Salt Spray Tester | 在金属件上没有严重腐蚀斑点。 No remarkable corrosion shall be recognized in metal parts. |