LAXXSCOM[®] 浙江领祥

客户名称:

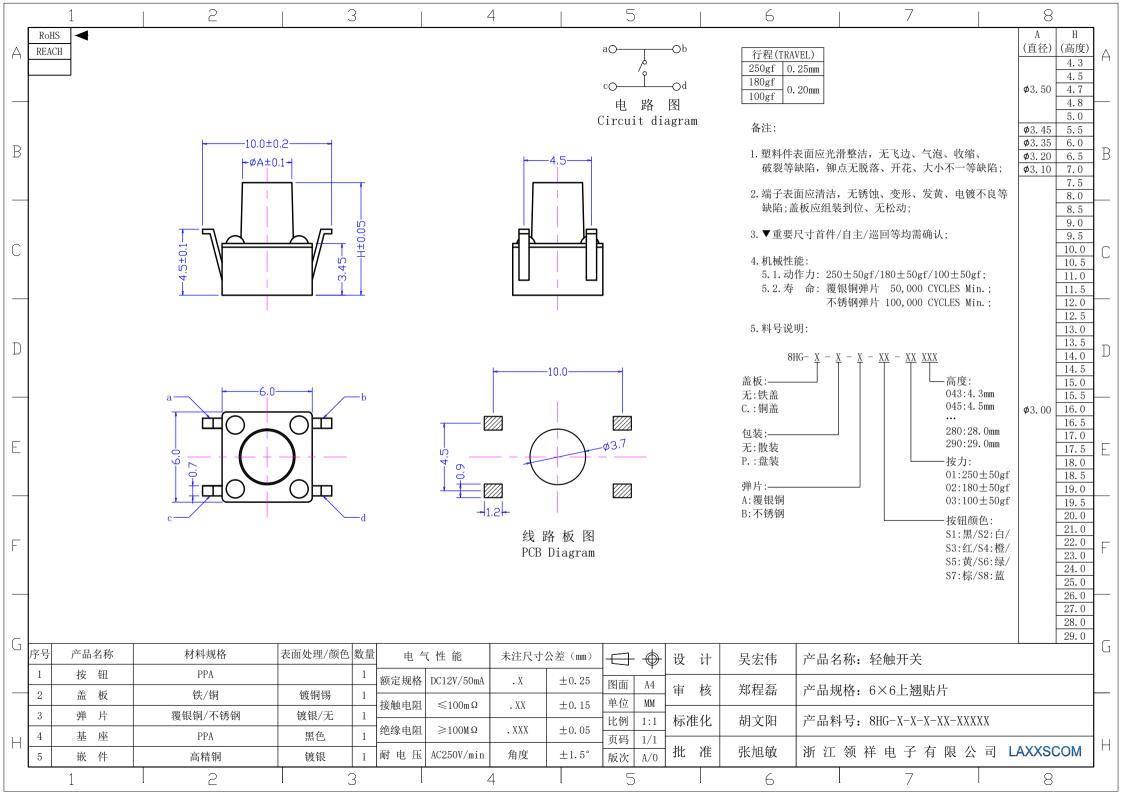
规格承认书

SPECIFICATION FOR APPROVAL

CUS	TOMER NANE				
	户料号: OMER NUMBER —				
	品规格: DDUCD NANE —		轻触开关	<u>.</u>	
	司型号: DUCD MODEL —	62	×6上翘贴	i片	
	司料号: DUCD NUMBER —	8HG->	<u> </u>	-XXXXX	
		I			
承认单位 DEPT	采购部 PURCHASE	品 保 部 Q C	工程部 R&D		:认章 AL SIGNET
审 核 CHKD					
承 认 APPD					
审 核 结 ! APPROVAL RESU 说 明: REMNRK:	果: □ 合格 JLT: □ O K	□ 不合格 N G	外 日期(DATE):		「回签一份 (MONTH) / 日(DAY) /
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ZHEJIANG LINGXIANG ELECTRONICS CO., LTD.

日期 DATE	2020-4-15
文件编号 Document number	LX-EGHK-01B

Specification 规格书

1. 基本说明 General specification

1.1 范围 Scope

此规范含盖单推柄和无推柄的轻触开关要求

This specification covers the requirements for single key switches which have no key top (TACT SWITCHES: MECHANICAL CONTACT).

- 1.2 使用温度范围 Operating Temperature Range
 - _-20_to_+70_℃ 正常湿度,标准压力(normal humidity, normal press.)
- 1.3 保存温度范围 Storage Temperature Range

_-25_to_+85_℃ 正常湿度,标准压力(normal humidity,normal press.)

1.4 测试条件 Test Conditions

测试和计量按下列标准条件除非特殊说明:

Tests and measurements shall be made in the following standard conditions unless otherwise specified:

标准温度 Normal temperature (temperature_5_to_35_℃)

正常湿气 Normal humidity (relative humidity 45 to 85%)

标准压力 Normal pressure (pressure 860 to 1060 mbars)

2. 动作类型 TYPE OF ACTUATION

轻触返回 Tactile feedback

3. 接触形式 CONTACT ARRANGEMENT

1接点1回路 1 poles 1 throws

详细接线图在外形图中(Details of contact arrangement are given in the assembly drawings.)

4. 额定规格 MAXIMUM RATINGS

DC 12 V 50 mA

5. 外观结构 Appearance and structure

5.1 外观: 应无明显收缩、飞边、划伤,镀层均匀,无脱落等现象 Appearance:It should no obvious shrinkin 、upset metal、Scrape、plating path well-distributed and no coming off.

5.2 尺寸: (附外形图) Size:Making (drawing attached) 图纸见第 2 页

ZHEJIANG LINGXIANG ELECTRONICS CO., LTD.

日期 DATE	2020-4-15
文件编号 Document number	LX-EGHK-01B

Specification 规格书

6.性能 General specification

6.1 电气性能 Electrical properties

0. 1	6.1 电气性能 Electrical properties			
	项目	测试条件	要求	
	Item	Test Condition	Requirements	
6. 1. 1	接触电阻 Contact Resistance	用两倍的动作力作静负载施加于按钮的中心, 并用_1 千赫(kHz)小电流接触电阻仪测量. Applying static load twice the actuating force to the center of the stem, measurements shall be made with a_1 kHz small-current contact resistance meter.	小于 <u>100</u> mΩ ≤ <u>100</u> mΩ	
6. 1. 2	绝缘电阻 Insulation Resistance	在端子与端子之间,端子与外壳之间施加DC_100_V/一分钟Measurements shall be made following application of DC_100_V potential between terminals and between individual terminals and frame for one minute.	大于 <u>100 MΩ</u> ≥ <u>100 MΩ</u>	
6. 1. 3	耐电压 Dielectric withstanding voltage	在端子与端子之间,端子与外壳之间施加AC_250_V (50HZ-60HZ) AC_250_V (50Hz or 60Hz) shall be applied between terminals and between individual terminals and frame for one minute.	无击穿、闪烁现象 There shall be no breakdown	
6. 1. 4	抖 动 Bounce	在正常使用中(以每秒 3 - 4 次周期)轻轻地在手柄中心加力,在通与断瞬间测试抖动 Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 operations per sec), Bounce shall be tested when "ON" and "OFF" Switch 示波器 Oscillograph t 为触点抖动时间	_10_mS 以下	

ZHEJIANG LINGXIANG ELECTRONICS CO., LTD.

日期 DATE

2020-4-15

文件编号 Document number

LX-EGHK-01B

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6.2	利力 研究 作生 百足	Mechanical	properties

0. 2	6.2 机械性能 Mechanical properties 项目		
Item		Test Condition	Requirements
6. 2. 1	动作力 Actuating Force	开关的动作方向为垂直放置,开关向推柄中心逐渐地增加负荷直到推柄停止时所测量的最大负荷Place the switch such that the direction of switch operation is vertical and then gradually increase the load applied to the center of the stem, the maximum load required for the stem to come to a stop shall be measured	
6. 2. 2	行 程 Travel	开关的动作方向为垂直放置开关,并以双倍动作力的 静负荷作用推柄中心,测量推柄从开始到停止的 行程距离 Place the switch such that the direction of switch operation is vertical and then apply a static load twice the actuating force to the center of the stem, the travel distance for the stem to come to a stop shall be measured	$\begin{array}{c} \underline{250} \text{ gf:} \\ \underline{0.25} \pm \underline{0.05} \text{ mm} \\ \underline{180} \text{ gf:} \\ \underline{0.20} \pm \underline{0.05} \text{ mm} \\ \underline{100} \text{ gf:} \\ \underline{0.20} \pm \underline{0.05} \text{ mm} \end{array}$
6. 2. 3	返回力 Return Force	开关的动作方向为垂直放置开关,在已有行程的推柄中心向上减小压力,推柄回到自由位置时所测量到的力The sample switch is installed such that the direction of switch operation is vertical and, upon depression of the stem in its center the whole travel distance, the force of the stem to return to its free position shall be measured	250 gf: 80 gf min 180 gf: 60 gf min 100 gf: 40 gf min
6. 2. 4	静止强度 Static Strength	开关的动作方向为垂直放置开关,在推柄动作方向施加_1KG的静负荷,持续_60_秒 Placing the switch such that the direction of switch operation is vertical, a static load of 3 kgf shall be applied in the direction of stem operation for a period of 60 seconds	无机械的和电 气的损伤迹象 There shall be no sign of damage mechanically and electrically

ZHEJIANG LINGXIANG ELECTRONICS CO., LTD.

日期 DATE

2020-4-15

文件编号 Document number

LX-EGHK-01B

6.3 使用耐久性能 Service Durability			
项目		测试条件	要求
	Item	Test Condition	Requirements
6. 3. 1	动作寿命 Operating Life	按下列条件进行寿命试验: Measurements shall be made following the test set forth below: (1)无负载条件 No load condition (2)动作频率: 30~50次/分钟 Rate of operation: 30 to 50 operations per minute (3)动作次数:覆银铜弹片_5_万次 不锈钢弹片_10_万次 Cycles of operation: Silver coated copper_50,000_cycles Stainless steel_100,000_cycles	接触电阻 Contact resistance:300_mΩ Max绝缘电阻Insulationresistance:100_MΩ Min动作力 Actuating force:30%_初始动作力+30%_or30%_ of initial force项目 Item 6.2.2
6. 3. 2	耐潮湿 Moisture Resistance	样品按下列条件进行耐潮湿试验,试验后在正常温度和湿度条件下放置 <u>1</u> 小时后测定Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made. (1)温度 Temperature: 40 ± 2 ℃ (2)相对湿度 Relative humidity: 90 to 95% (3)时间 Time: 96 小时 hours 擦除水珠 Water drops shall be removed.	接触电阻 Contact resistance:300_mΩ Max绝缘电阻 Insulation resistance:100_MΩ Min项目 Item6.1.3、6.1.4项目 Item6.2.1~6.2.3
6. 3. 3	耐低温 Low Temperature Resistance	样品按下列条件进行耐低温试验,试验后在正常温度和湿度条件下放置_1_小时后测定Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made (1)温 度 Temperature: -20 ± 2 ℃ (2)时 间 Time: 96 小时 hours 擦除水珠 Water drops shall be removed.	接触电阻 Contact resistance: _300 mΩ Max. 绝缘电阻 Insulation resistance: _100 MΩ Min 项目 Item 6.1.3、6.1.4 项目 Item 6.2.1~6.2.3

ZHEJIANG LINGXIANG ELECTRONICS CO., LTD.

日期 DATE 2020-4-15 文件编号 Document number LX-EGHK-01B

Specification 2018 12			
	项目	测试条件	要求
	Item	Test Condition	Requirements
6. 3. 4	耐 热 Heat Resistance	样品按下列条件进行耐热试验,试验后在正常温度和湿度条件下放置_1_小时后测定Following the test set forth below the sample shall be left in normal temperature and humidity conditions for one hour before measurements are made (1)温 度 Temperature: 70 ± 2 ℃ (2)时 间 Time: 96 小时 hours	接触电阻 Contact resistance: _300_mΩ Max. 绝缘电阻 Insulation resistance: _100_MΩ Min 项目 Item 6.1.3、6.1.4 项目 Item 6.2.1~6.2.3
6. 3. 5	温度循环 Change of Temperature	样品按下列条件进行高低温循环试验, 试验后在正常温度和温度条件下放置 1 小时后测定 Following ten cycles of high temperature test. The Sample shall be Placed in Normal temperature and humidity Conditions for one hour before measurements are made. During this test, water drops shall be removed A:+85 ± 2 ℃ B:-25 ± 2 ℃ C:2 小时 D:1 小时 E:2 小时 F:1 小时 F:1 小时 F:1 小时	接触电阻 Contact resistance: _300 mΩ Max. 绝缘电阻 Insulation resistance: _100 MΩ Min 项目 Item 6.1.3、6.1.4 项目 Item 6.2.1~6.2.3
6. 3. 6	盐雾测试 Salt Spray Test	样品按下列条件进行盐雾试验 The salt spray test shall be conducted at the following conditions: (1)浓 度 Density: 溶液(<u>5</u> ± <u>1</u>)%Nacl(质量百分比) (2)温 度 Temperature: <u>35</u> ± <u>2</u> ℃ (3)时 间 Time:铁盖 <u>6</u> 小时 hours 铜盖 <u>24</u> 小时 hours	金属件无发黄、生锈 No yellowing and rusting of metal parts

ZHEJIANG LINGXIANG ELECTRONICS CO., LTD.

日期 DATE	2020-4-15
文件编号 Document number	LX-EGHK-01B

项目 测试条件 要求			
	Item	Test Condition	Requirements
6. 3. 7	耐 振 动 Vibration Resistance	接下列条件进行抗振动试验 Measurements shall be made following the test set forth below: (1)频率范围 Range of oscillation: 10 to 55 Hz (2)振幅 Amplitude: 峰-峰 1.5 mm(pk-to-pk: 1.5 mm) (3)扫描周期 Cycle of sweep: 10 - 55 - 10 Hz 约一分钟内(in one minute, approx.) (4)扫描方式 Mode of sweep: 对数扫描式恒定扫描(Logarithmically sweep or uniform sweep.) (5)振动方向 Direction of oscillation: 3 个相互垂直方向,包括推柄行程方向(Three mutually perpendicular directions, including the direction of stem travel.) (6)每方向 2 小时.共 6 小时(2 hours each, for a total of 6 hours.)	项目 Item 6.1 项目 Item 6.2.1、6.2.2
6. 3. 8	抗冲击 Impact Shock Resistance	按下列条件进行冲击试验 Measurements shall be made following the test set forth below: (1)加速度 Acceleration: _80_g (2)试验次数 Cycles of test: 每个方向_3_次,_6_个方向共_18_次(_3_cycles each in_6_directions, for a total of_18_cycles)	项目 Item 6.1 项目 Item 6.2.1、6.2.2

ZHEJIANG LINGXIANG ELECTRONICS CO., LTD.

日期 DATE	2020-4-15
文件编号 Document number	LX-EGHK-01B

Specification 规格书

7. 焊接条件 Welding conditions

7. 焊接组	条件 Welding c	onditions	
项目		推荐条件	
	ltem	Recommended conditions	
7. 1	手工焊接 Hand soldering	请按以下条件进行焊接: (1) 焊锡温度: ≤ 380 ℃ (2) 连续焊接时间: ≤ 3 S (3) 电铬铁的功率: ≤ 60 W Please practice according to bellow conditions: (1) Soldering temperature : ≤ 380 ℃ (2) Continuous soldering time: ≤ 3 S (3) Capacity of soldering iron: ≤ 60 W	
7. 2	自动焊接 Automatic flow soldering	本产品,请按以下条件进行焊接: This product , type solder according to the following conditions: PH表面温度で surface of product temperature 260で 最高三秒 260でmax. 3sec max peak temperature 180で 最多120秒 120sec max. 最多40秒 time(sec)	

ZHEJIANG LINGXIANG ELECTRONICS CO., LTD.

日期 DATE	2020-4-15
文件编号 Document number	LX-EGHK-01B

Specification 规格书

8. 其他注意事项 Other precautions

- (1)进行焊接过程中,不可以用溶剂或类似品清洗开关 Following the soldering process, do not try to clean the switch with a solvent or the like.
- (2)防止助焊剂从开关的顶端渗入 Safeguard the switch assembly against flux penetration from its topside.
- (3) 交货后保证开关处于封密状态并库存时间 90 天以下。 Please have the products keep in close status and the storage time is 90 days guaranty after delivering the goods at most.