



规格书

SPECIFICATION

CUSTOMER NAME	客户名称:	
CUSTOMER NO.	客户编号:	
SERIES	系 列:	检测开关
MODEL NO.	型 号:	
DRAWING NO.	图 形 号:	Detector Switches

If specification of this product meets your request, please confirm all the items of it and return to us with signature and stamp, it will be basis of our production and record. Thanks your cooperation in advance!

若此产品规格符合贵司要求，敬请确认此规格书内所有项目
并签名和盖章后回传给我司，以作我司产品制作之

依据和存档之用，多谢合作！

EXAMINE & APPROVAL 审批

APPROVE 接受	NOT APPROVE 不接受
SIGNATURE 签署 STAMP 盖章 DATE 日期	

PREPARED BY.制表人	CHECKED BY.校对	APPROVED BY.审核	APPROVAL BY.批准
研发部 戴海明 2022. 06. 08	品质部 黄自清 2022. 06. 08	工程部 庞军 2022. 06. 08	总经办 吴量 2022. 06. 08

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required)

MAiL: HK@ALPSR. CN XB@ALPSR. CN
Quality core! Afterburner for Made in China!



MODEL NO.

产品名称. Detector Switches

DRAWN 制订

PANG JUN

APPD. 审核

CHEN ZENQ

1、RATING (额定值) 0.1A 0.3A 12V 30V

2、ELECTRICAL CHARACTERISTICS (电气性能规格):

DRAWN 制订

TEST CONDITIONS 测试条件

PERFORMANCE 规格

2.1

CONTACT
RESISTANCE
接触电阻

MEASURED AT SMALL CURRENT (100mA OR LESS)
100Hz
在微小电流(100mA)以下测试.

200mΩ MAX.
200 毫欧以下

2.2

INSULATION
RESISTANCE
绝缘电阻

APPLY A VOLTAGE OF 100V DC FOR 1 MIN.
TO FOLLOWING PORTIONS AFTER WHICH
MEASUREMENT SHALL BE MADE.
(1) BETWEEN BODY AND CONDUCTOR.
(2) BETWEEN CONDUCTORS NOT TO BE CONTACT.
输入 100V DC 电压 1 分钟, 按以下接触方法测试:
(1) 接触端子之间.
(2) 插座体与排脚之间.

100MΩ MIN.
100 兆欧以上.

2.3

DIELECTRIC
STRENGTH
耐电压

AC100V rms (50-60Hz) FOR 1 MIN TRIP CURRENT: 0.5mA
(1) BETWEEN TERMINALS.
(2) BETWEEN INDIVIDUAL TERMINALS AND FRAME.
输入 100V DC 电压 1 分钟, 按以下接触方法测试:
(1) 排脚相互之间
(2) 排脚与外壳之间.

WITHOUT DAMAGE TO PARTS
ARCING OR BREAKDOWN
ETC
没有绝缘破坏等异常

3、MECHANICAL CHARACTERISTICS (机械性能规格)

DRAWN 制订

TEST CONDITIONS 测试条件

PERFORMANCE 规格

3.1

OPERATING
FORCE
作动力

Push at root of knob
在压柄最顶端测试

100±30gf

3.2

TERMINAL
STRENGTH
端子强度

A STATIC LOAD OF (1KgF) SHALL BE APPLIED
TO THE TIP OF THE TERMINAL FOR 1 MIN IN
ANY DIRECTION.
在任意一个方向的先端加上(1KgF)力度测试, 时间
为 1 分钟

ELECTRICAL
CHARACTERISTICS
SHALL BE SATISFIED
WITHOUT DAMAGE OR
EXCESSIVE LOOSENESS OF
ACTRATOR.
在端子中没有裂开, 松动
等异常, 满足于机械、电器
性能。

3.3

PRACTICAL
TEMPERATURE
RANGE
使用温度范
围

AT -15°C ~ +65°C.
在 -15°C ~ +65°C 温度内使用.



3.4	STANDARD ATMOSPHERIC CONDITIONS 测试标准状态	UNLESS OTHERWISE SPECIFIED, THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) AMBIENT TEMPERATURE: 5°C TO 35°C (2) RELATIVE HUMIDITY: 45% TO 85% (3) AIR PRESSURE: 80Kpa TO 106Kpa 在没有指定的情况下测试温度、湿度、气压如下: (1) 温度为 5°C ~ 35°C. (2) 湿度为 45% ~ 85% (3) 气压为 80Kpa ~ 106Kpa.	
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4、DURABILITY (耐久性) :

DRAWN 制订		TEST CONDITIONS 测试条件	PERFORMANCE 规格
4.1	SOLDERABILITY TEST 可焊试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF 230±10°C, 时间为 3±0.5 SECONDS. 端子顶部被浸入锡焊池中 2mm 深, 温度为 230±5°C, 时间为 3±0.5 秒.	THE AREA OF SOLDERING. SHOULD BE OVER 95% 焊接面积要有 95%以上.
4.2	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	SOLDER BATH METHOD: SOLDER TEMPERATURE 245±5°C IMMERSION TIME 3±0.5 SEC IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6mm DIMENSIONS OF COMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BEING ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION. 焊炉焊接的时候温度控制在 245±5°C, 过炉时间为 3±0.5 秒, 于基板厚度为 1.6mm SOLDERING IRON METHOD: BIT TEMPERATURE 350±10°C APPLICATION TIME OF SOLDERING IRON 3±0.5 SEC THE SPECIMEN SHALL BE SUBJECT TO STANDARD ATMOSPHERIC CONDITIONS WHICH MEASUREMENT SHALL BE MADE. 手焊接的时候温度控制在 350±10°C, 时间为 3±0.5 秒	THERE SHALL BE NO DEFORMATION OF THE SWITCH. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本体无变形, 满足于机械、电气性能。
4.3	LIFE TEST 寿命试验	LOAD: AN ACTUATOR SHALL BE SUBJECT TO 50,000 CYCLES AT A SPEED OF 15-20 CYCLES FOR 1 MIN. 无负荷: 操作者以每分钟 15-20 次的频率作 50,000 回之无负荷测试.	(1) CONTACT RESISTANCE SHALL BE 400mΩ MAX. (2) INSULATION RESISTANCE 100MΩ MIN (3) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED (1) 接触电阻不能超于 400mΩ (2) 绝缘电阻 100MΩ 以上 (3) 其它满足于机械、电器性能.



4.4	HEAT TEST 耐热试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $60\pm 2^{\circ}\text{C}$ FOR 72 HOURS. AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度 $60\pm 2^{\circ}\text{C}$ 中测试 72 小时后, 再放置正常室温中 1 小时测定.	THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 外观无异常, 满足于机械、电气性能
4.5	COLD TEST 耐冷试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $-20\pm 3^{\circ}\text{C}$ FOR 72 HOURS. AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVER CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度 $-20\pm 3^{\circ}\text{C}$ 中 72 小时后, 再放置常温中 1 小时来测定	
4.6	HUMIDITY TEST 潮湿试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $40\pm 2^{\circ}\text{C}$ AND A HUMIDITY OF 90% TO 96% FOR 96 Hr. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR. 放置 $40\pm 2^{\circ}\text{C}$ 的相对湿度为 90%~95% 环境中 96 小时后, 再将样板放在正常环境 1 小时后进行测试.	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外观无异常, 满足于机械、电器性能.
4.7	SALT MIST TEST 盐雾实验	THE SWITCH SHALL BE CHECKED AFTER FOLLOWING TEST: 在以下设定条件下进行测量: (1) TEMPERATURE: $35^{\circ}\text{C} \pm 2^{\circ}\text{C}$. 温度: $35^{\circ}\text{C} \pm 2^{\circ}\text{C}$. (2) SALT SOLUTION: $5\pm 1\%$ (SOLIDS BY MASS) 盐溶液浓度: $5\pm 1\%$ (质量百分比) (3) TIME: $24\text{H} \pm 1\text{H}$ 时间: $24\text{H} \pm 1\text{H}$ AFTER TEST, SALT DEPOSIT SHALL BE REMOVED BY RUNNING WATER. 实验后的盐沉积物用水冲掉	NO REMARKABLE CORROSION SHALL BE RECOGNIZED IN METAL PART. 在金属件上没有腐蚀斑点.
4.8	VULCANIZING TEST 硫化试验	(1) Density (濃度): 溶液 2% K ₂ S 或 Na ₂ S 濃度: 2% 濃度的硫化鉀或硫化鈉溶液 (2) Temperature: $35\pm 2^{\circ}\text{C}$ 溫度: $35\pm 2^{\circ}\text{C}$ (3) TIME: 45 second 時間: 45 秒	Metal parts without turn red or black 金屬件無变红、变黑
4.9	VIBRATION RESISTANCE TEST 抗振测试	At the frequency of 10 ~ 55Hz and sweeping for 1 minute, apply 2H to the three vertical directions including the operation direction respectively with the method of logarithmic or near line sweeping vibration variation, and the amplitude is 1.5mm 以 10~55HZ 频率, 扫面 1 分钟, 使用对数或近识直线扫面震动变作方法, 向包括操作方向在内的垂直三方向分别施加 2H, 振幅为 1.5mm	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外观无异常, 满足于机械、电器性能.