



东莞市林积为实业投资有限公司
Dongguan LJV Industry Investments Co.,Ltd.

承 认 书

FOR APPROVAL

新规 New release	
变更 Revised	00

客户名称
Customer: T0149

客户机型
Product: — —

客户料号
Customer, s No: — —

品号
Part No: RE08120HX-V02-0374

规格
Specification: 16P16, AED18C9

图号
Drawing No: PR-RE081-029

样品批号
Samples Lot No: — —



●确认后请回签一份承认书,如果收到订单时未收到您回签的承认书,我们将视您已完全同意。

Please return one copy of this drawing with your signature of approval In the event of an order being placed for this part number before the signer copy is returned,it will be assumed that full approval have been given

客户确认回复 Customer Approval Status:	接受 PASSED
	拒收 REJECTED
签 核 Signature:	

承认书包含以下内容:

This Specification is composed of under mentioned:

项 目 ITEM	页 码 Page:
1. 产品使用注意事项 Product Usage Announcements	1/6
2. 产品外形尺寸图 Product External Drawing	2/2
3. 规格书——机械性能、电气性能、耐久性能 Specification——Mechanical Electrical Endurance Characteristics:	3~5/6
4. 阻值变化特性(线型,仅限于电位器) Resistance Characteristic(Taper,Only of VR)	—/—
5. 出货检验报告 Inspection report	—/—
6. 材质分解表 Material Analysis List	—/—
7. 环保检测资料 SGS Test Data	—/—

经 办 Prepared By	核 对 Checked By	核 准 Approved
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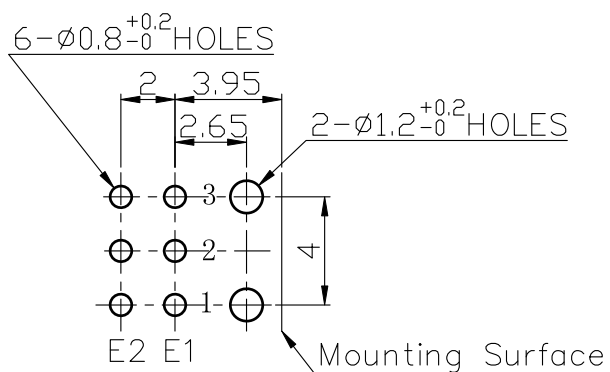
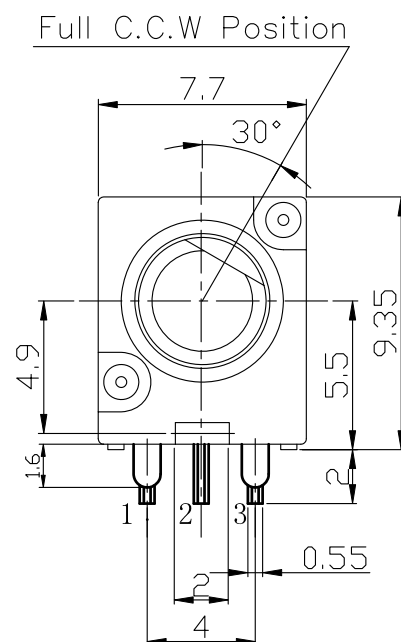
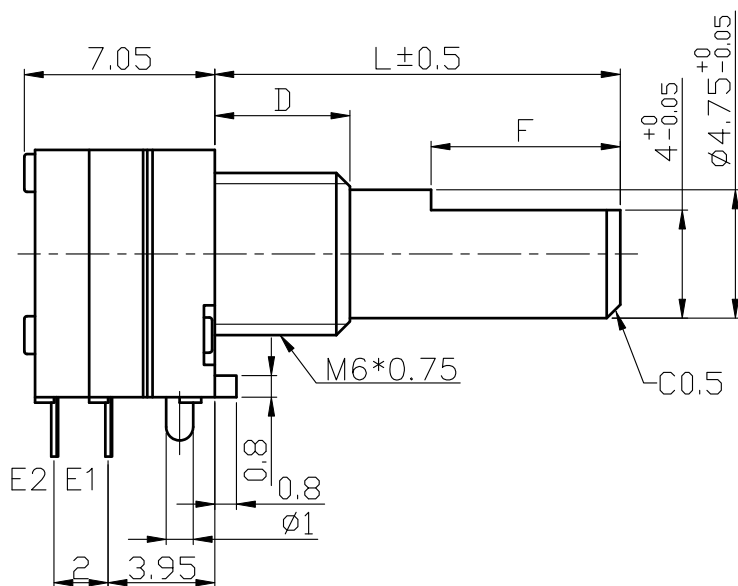
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承认书编号Spec. No

SP-RE08-922



P.C.B MOUNTING DETAIL

D	5
<input checked="" type="checkbox"/>	H

L	18
F	9

click position	C.W															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
E1(1-2)	0	1	1	0	0	1	1	0	0	0	1	1	0	0	1	1
E1(2-3)	1	1	0	0	1	1	0	0	0	1	1	0	0	1	1	0
E2(1-2)	1	1	0	1	0	0	1	1	0	0	1	1	0	1	0	0
E2(2-3)	0	0	1	1	1	1	0	0	0	0	1	1	1	1	0	0

1: 表示通
0: 表示断

LJV 东莞市林积为实业投资有限公司
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TOL. UNLESS OTHRWISE SPEC. . ISSU.

DATE

BASIC DIMENSIONS

TOL.

00

2010-04-01

ORIGINAL DRAWING

$L \leq 10$

± 0.3

01

$10 < L$

± 0.5

02

$100 \leq L$

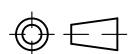
± 0.8

03

ANGLE

$\pm 5^\circ$

04



SCALE

UNIT

3:1

mm

MODEL: RE08120 ☒ X-V02

VERSION

DRAW

CHKD

APPD

AO

DRAWING NO: PR-RE081-029

第 1 页

RE08逻辑编码器系列规格书
RE08 LOGIC ENCODER SERIES SPECIFICATION
1. 一般事项General
1-1 适用规格 Scope

本规格书适用于使用在电子设备上08型逻辑编码器.

This specification applies to 08mm logic encoder, using in electronic equipment.

1-2 标准状态Standard atmospheric conditions

除另有规定外, 测量应在以下状态下进行:

Unless otherwise specified, the standard range of atmospheric conditions for making measurements and test is as following limits:

温度 Ambient temperature : 15℃ to 35℃

相对湿度 Relative humidity : 25% to 85%

气压 Air pressure : 86kpa to 106kpa

如果对在上述所提到的条件中所做的实测值有疑问的话, 应使用以下条件进行测量:

If doubt arises on the decision based on the measured values under the above-mentioned conditions, the following conditions shall be employed:

温度 Ambient temperature : 20±1℃

相对湿度 Relative humidity : 63% to 67%

气压 Air pressure : 86kpa to 106kpa

1-3 使用温度范围

Operating temperature range : -30℃ to +80℃

1-4 保存温度范围

Storage temperature range : -40℃ to +85℃

2. 构造Construction
2-1 尺寸 Dimensions

见所附成品图 Refer to attached drawing

3. 额定值 Rating
3-1 额定电压

Rated voltage: DC 5V

3-2 额定电流(阻抗负载)

Rated current : 1mA (Resistance loading)

3-3 最大使用电流(阻抗负载)

Max. operating current: 2.5mA (Resistance loading)

4. 电气性能 Electrical Characteristics

项目 ITEM	条件 CONDITIONS	规格 SPECIFICATIONS
4-1. 信道 Channel		16信道 16Channel
4-2. 接触阻抗 Contact resistance	出力信号处于ON时安定状态条件下测定. Measurement shall be stable condition which a output signal is ON.	1Ω 以下 端子间1Ω Max, 开关间100mΩ Max terminal 1Ω Max, switch 100mΩ Max
4-3. 绝缘阻抗 Insulation resistance	在端子和轴套间施加电压 250V DC. Measurement shall be made under the condition which a voltage of 250V DC is applied between individual terminals and bushing.	100MΩ 以上 100MΩ Min
4-4. 耐电压 Dielectric strength	在端子和轴套间施加AC300V电压1分钟 A voltage of 300V AC shall be applied for 1 minute between individual terminals and bushing.	不得有绝缘破坏 Without arcing or breakdown.

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5. 机械性能 Mechanical Characteristics		
5-1. 全回转角度 Total rotational angle		300° ±5°
5-2. 定位点力矩 Detent torque		□ 2~15mN.m. (20~150gf.cm) ■ 15~40mN.m. (150~400gf.cm)
5-3. 定位点数及位置 Number and position of detent		16detents Step angle:20° ±3° 16点定位间隔角度20° ±3°
5-4. 轴的推拉强度 Push-pull strength of shaft	在轴端,沿轴向施加80N(8Kgf) 的静负荷力推和拉各10秒钟 (产品焊锡固定在PCB上。) Push and pull static load of 80N(8Kgf) shall be applied to the shaft in the axial direction for 10S. (After soldering of the PC board)	轴向虚位间隙0.4以内 Shaft play in axial direction 0.4 Max
5-5. 端子强度 Terminal strength	在端子的先端施加5N (500gf) 的力1分钟。 A static load of 5N(500gf)be applied to the tip of terminals for 1 minute in any direction.	端子无损坏,无过度的松动. 允许变形. Without damage or excessive looseness of terminals. terminal bend is permitted.
5-6. 轴套螺纹紧固强度 Bushing Nut Tighten Strength		0.8N.m(8.0kgf.cm) 以上 0.8N.m(8.0kgf.cm) Min
5-7. 止动强度 End stop strength		0.3N.m(3.0kgf.cm) 以上 0.3N.m(3.0kgf.cm) Min
5-8. 轴向间隙 Shaft play in axial direction		0.4mm 以下 0.4mm Max
5-9. 轴摆动 Shaft wobble	在距离轴顶端5mm处,沿径向瞬间施加50mN.m(500gf.cm) 的力测试 A momentary load of 50mN.m should be applied at the point 5mm from the tip of the shaft in a direction perpendicular to the axis of shaft.	0.7*L/30mm p-p 以下 (L: 指安装平面到轴的柄端的距离。) 0.7*L/30mm p-p MAX L:Distance between mounting surface and measuring point on the shaft
5-10. 轴的回转方向 摆动Shaft play in rotational wobble	用角度板测定。 Testing by angle board.	5° 以下 5° MAX
5-11. 开关电路 接点数 Switch circuit and number of pulse		单极单投(按压ON) Single pole and single throw (push ON)
5-12. 开关动作力 Operation force of switch	在轴端,沿轴向施加的按压力。 Push static load to the shaft in the axial direction	5.5±2N (550±200gf)
5-13. 开关移动量 Travel of switch		□ 0.5±0.3 mm □ 1.8±0.5 mm
5-14防水等级 Water resistant grade		■ IP67
6 耐久性能 ENDURANCE CHARACTERISTICS		
项目 ITEM	条件 CONDITIONS	规格 SPECIFICATIONS
6-1. 回转寿命 Rotational life	在无负荷条件下轴以600~1000周/小时速度回转, 一日连续5000~8000次。 The shaft of encoder shall be rotated at a speed of 600~1000cycles/H without electrical load,after with measurements shall be made. (5000 to 8000 continuous cycles for 24 hours.)	□ 30,000±200cycles
		■ IP67 15,000±200cycles
		尚余有轻微定位感。 端子间接触阻抗200Ω 以下 Detent feeling has to remains Contact resistance 200Ω Max

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6-2. 按压寿命 Push-life	在无负荷条件下沿轴向施以10N(1Kgf)以下的力,以600次/小时的速度按压。 Push 10N(1Kgf) to the shaft of encoder in the axial direction under non-load conditions, and with a speed of 600 times/hour.	□20,000±200次。(0.5行程) 20,000±200cycles. (0.5 Travel) □15,000±200次。(1.8行程) 15,000±200cycles. (1.8 Travel) 接触电阻:≤200mΩ. 其它应满足初期规格。 Contact resistance:200mΩ or less. Specification in clause shall be satisfied.
6-3. 耐湿性 Damp heat	温度40±2℃,湿度90~95%的恒温恒湿槽中放置96±4小时后,在常温、常湿中放置1.5小时后测试。 The logic encoder shall be stored at temperature of40 ±2℃ with relative humidity of 90% to95% for96±4H in a thermostatic chamber.And the encoder shall be subjected to standard at-mospheric conditions for 1.5H,After which measurements shall be made.	所有项应满足初期规格 Specifications in clause all items is shall be satisfied.
6-4. 耐热性 Dry heat	温度85±3℃的恒温箱中放置96±4小时,常温、常湿放置1.5小时后测试。 The logic encoder shall be stored at a temperature of 85±3℃for 96±4H in a thermostatic chamber.And then the encoder. shall be subjected to standard atmospheric conditions for 1.5H,After which measurements shall be made.	所有项应满足初期规格。 Specifications in clause all items is shall be satisfied.
6-5. 低温特性 Cold	温度-40±3℃的恒温箱中放置96±4小时,常温、常湿放置1.5小时后测试。 The logic encoder shall be stored at a temperature of -40±3℃for 96±4H in a thermostatic chamber.And then the encoder. shall be subjected to standard atmospheric conditions for 1.5H,After which measurements shall be made.	所有项应满足初期规格。 Specifications in clause all items is shall be satisfied.
6-6. 焊锡耐热性 Resistance to Soldering heat	槽焊 Dip soldering. 使用基板:t=1.6mm的单面覆铜板。 Printed wiring board:single-sided copper clad laminate board with thickness of 1.6mm. 预热:基板表面温度100℃以下,时间1分钟以内。 Preheating:1.Surface temperature of board:100℃. or less 2.Preheating time:within 1 minute. 焊接:温度260±5℃或以下,时间3秒以内。 Soldering:Solder temperature:260±5℃ or less Immersion time:within 3s 手焊 Manual soldering. 温度300℃以下,时间3秒以内。 Bit temperature of soldering iron:300℃less than Application time of soldering iron:within 3s.	不得有绝缘体的破损、变形、接触无异常。 Electrical characteristics shall be satisfied No mechanical abnormality.
6-7. 焊锡性 Solderability	端子在260±5℃温度的焊锡槽内浸锡3±0.5秒。 The terminals shall be immersed into solder bath at 260℃for 3±0.5s.	浸渍面须有75%以上焊锡附着 A new uniform coating of solder shall cover75% minimum of the surface being immersed.

7 包装部分 Packing Portion

项目 ITEM	条件 CONDITIONS	规格 SPECIFICATIONS
11-1. 包装方式 Packing	使用吸塑盒和纸箱包装。 Packed in plastic sucking box and carton.	内箱:每盒100pcs, 每箱10盒, 共计: 1000pcs/箱 外箱: 每箱装4个内箱, 共计: 4000pcs/箱 Inner packing: 100pcs Per tray, 10 tray in a box, total 1000 pcs in a box. Carton packing: 4 boxes in a carton, total 4000pcs in a carton.

RE08逻辑编码器系列规格书

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项目 ITEM	条件 CONDITIONS	规格 SPECIFICATIONS																															
<div></div> <div><p>(1).Ps/Carton: 4000pcs/carton</p><p>(2).Carton size:L:420mm*W:290mm*H:240mm</p><p>(3).Package style: box (1000pcs/box)</p><p>(4).Box size:L:280mm*W:200mm*H:110mm</p><p>(5).Tray style:Foamed plastic plate. (100pcs/tray)</p><p>(6).Tray size:L:265mm*W:192mm*H:13mm.</p></div>																																	
<table><tr><td colspan="2"></td><td>签收：含部门代码/份数</td><td>GC1/1</td><td>PZ1/1</td></tr><tr><td colspan="2"></td><td>回收：勾选处理结果</td><td><input type="checkbox"/>回收 <input type="checkbox"/>遗失</td><td><input type="checkbox"/>回收 <input type="checkbox"/>遗失</td></tr><tr><td>受控编号 Document No</td><td>修订 Revision</td><td>日期 Date</td><td>经 办 Designed</td><td>审 核 Check</td><td>批 准 Approved</td></tr><tr><td></td><td>初始发行</td><td>2014. 12. 09</td><td rowspan="4"><div>工程部 2018. 06. 04 陆美谕</div></td><td rowspan="4"><div>工程部 2018. 06. 04 王家明</div></td><td rowspan="4"><div>工程部 2018. 06. 04 徐志刚</div></td></tr><tr><td>文号 File No</td><td></td><td></td></tr><tr><td>RE08逻辑编码器</td><td></td><td></td></tr><tr><td>版本 VERSION:</td><td>A0</td><td></td></tr></table>					签收：含部门代码/份数	GC1/1	PZ1/1			回收：勾选处理结果	<input type="checkbox"/> 回收 <input type="checkbox"/> 遗失	<input type="checkbox"/> 回收 <input type="checkbox"/> 遗失	受控编号 Document No	修订 Revision	日期 Date	经 办 Designed	审 核 Check	批 准 Approved		初始发行	2014. 12. 09	<div>工程部 2018. 06. 04 陆美谕</div>	<div>工程部 2018. 06. 04 王家明</div>	<div>工程部 2018. 06. 04 徐志刚</div>	文号 File No			RE08逻辑编码器			版本 VERSION:	A0	
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