

编码器规格书

ENCODER SPECIFICATIONS

1 一般事项 General information	
1-1 适用型号 Applicable models	ED08E 系列无开关型 ED08E Serial no have Switch type
1-2 使用环境温度 Usage environment temperature	- 20℃ ~ + 70℃
1-3 保存环境温度 Storage environment temperature	- 40℃ ~ + 70℃
1-4 测试条件 Test condition	温度: 5~35℃, 湿度: 45~85%HR Temperature: 5~35℃, Moisture: 45~85%HR
1-5 环保要求 Environmental requisition	本产品符合 RoHS 指令 This product is compliant with RoHS Directive
1-6 耐焊接热 Soldering heat-resistance	1、手工焊接温度最高 350℃ ± 5℃, 3 秒; 2、自动焊接温度最高 260℃ ± 5℃, 3 秒; 基板表面预热温度最高 100℃ 1 分钟以内; 3、以上过程均保证在 1 到 2 次; 4、不适用回流焊。 1. Soldering iron Max ,350℃ ± 5℃ a t 3 sec. 2. Au to soldering 260℃ ± 5℃ max. at 3 sec. Pre heating temperature of board surface: 100℃ max. at within 1 minutes. 3. To guarantee the above process at 1 or 2 times. 4. No apply the reflow soldering.
1-7 原产地 Country of origin	中国 China
2 构造 Construction	
2-1 外观 Appearance	各部件应完整, 无锈蚀、裂痕、电镀不良 Every part should finished, be not exist rust flaw crack and bad plating
2-2 寸法 Measurements	依照图面规定 Under conditions prescribed by design drawing.
3 机械性能 Mechanical characteristics	
3-1 全回转角度 Total rotational angle	300° ± 5°
3-2 回转力矩 Rotational torque	70~400gf.cm (旋转速度: 60° /1 秒) 70~400gf.cm (Rotational velocity : 60° /1 Sec.)
3-3 回转止动强度 Rotational stopper strength	3Kgf.cm
3-4 定位数 Number of detent	16 个定位 16 Detents
3-5 切换角度 Change-Over angle	20° ± 3°

3-6	轴压引强度 Pull-Push Strength of Shaft	≥8Kgf		
3-7	螺母锁紧强度 Nut tightening strength	≥8Kgf.cm		
3-8	轴摇晃度 Shaft wobble	在单个轴顶端施加压力 250gf，轴径向偏移量小于：0.7*轴长 L 尺寸/30mm On the tip of the single shaft exert pressure 250gf ， Shaft radial deviant be smaller than:0.7*shaft long L size/30mm		
4 电气性能 Electrical characteristics				
4-1	额定电压 Voltage rating	DC 5V		
4-2	额定电流 Current rating	1mA		
4-3	耐电压 Voltage proof	AC 300V 1 分钟以上（端子和本体之间，端子和轴芯之间） 1 Minute at AC 300V (Between terminal – case, Between terminal –shaft).		
4-4	最大使用电流 Maximum operating current	2.5mA		
4-6	绝缘抵抗 Insulation resistance	DC 250V 100M Ω 以上（端子和本体之间，端子和轴芯之间） 100M Ω min. At DC 250V (Between terminal – case, Between terminal –shaft).		
4-7	回转寿命 Rotational life	无负荷情况下每小时旋转 600 周，寿命 10,000 周，寿命后： 1、绝缘抵抗 10M Ω 以上 D C250V（端子和本体之间，端子和轴芯之间）； 2、耐电压 A C100V 1 分钟（端子和本体之间，端子和轴芯之间），绝缘阻抗无击穿； 3、回转力矩：满足第 3-2 项； 4、外观和结构无损坏。 10,000 cycles under no load circumstances by 600 r/h of rotation, afterlife cycle: 1. I nsulation resistance:10M Ω min. A t D C 2 50V. (Between terminal – case, Between terminal –shaft). 2. W ithstanding v oltag e ： AC 100V at 1 minute (Between term inal – case , Between terminal –shaft). No subversion on insulation resistance. 3. Rotational torque ： Content item No. 3-2. 4. No damage on appearance and structure.		
5 防水性能 Waterproof standard characteristics				
6-1	防水标准 Waterproof standard	☒ 不适用 No apply ☐ 七级防水 编码器轴芯轴套置于水中 1 米深处，其它部件密封后暴露在标准大气压中，30 分钟后电位器内部未进水。 Grade -7 Of Waterproof standard Encoder's Shaft and Bush in water 1M deep, other component sealed after exposed to the standard atmosphere, after 30 minutes no water into the Encoder's inner.		
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