



P. C. B MOUNTING HOLE DETAIL

| Electrical characteristics 电气特性 | |
|-------------------------------------|------------------------------------------------------|
| Rating Power 额定功率 | DC5V 10mA |
| Fluttering 振荡 | T1,T3≤3ms |
| Sliding Noise(Bounce)滑动杂音 | T2≤2ms |
| Dielectric Voltage 耐电压 | For 1 minute or more AC 300V |
| Insulation resistance 绝缘阻抗 | More than 100MΩ at DC 250V |
| Phase Difference 相位差 | ΔT≤0.08T |
| Mechanical characteristics 机械特性 | |
| Total Rotational Angle 旋转角度 | 360° |
| Rotational Torque 旋转力矩 | 30gf.cm~200 gf.cm |
| Number of click 段位数量 | 30 Detents(Angle:12°±2°) 20 Detents(Angle:18°±2°) |
| Push-Pull Strength 轴推拉力强度 | 10Kgf.cm Min for 10Sec |
| Bushing & nut tight strength 轴套锁紧强度 | 10.0Kgf Min |
| Switch Specifications 开关特性 | |
| Maximum Ratings 额定电压 | DC5V 10mA(1mA Min) |
| Contact resistance 接触阻抗 | 200mΩ Max |
| Travel of switch 开关移动量 | 0.5+0.4/-0.3 mm OR 1.5+0.4/-0.3 mm |
| Operating force of switch 开关动作力 | 500±200gf |
| Environmental characteristics | |
| Rotational Life 旋转寿命 | 30,000 cycles |
| Switch Life 开关寿命 | 20,000 cycles |

EC11 轴心轴套规格

| F-TYPE | D=3.5 | D=5 | Y-TYPE | D=3.5 | D=5 |
|--------|-----------------------------------------------------|--------------------------------------------------|--------|------------------------------------------------|-------------------------------------------|
| | L: 9, 10 F: 4, 4 | L: 10, 12.5, 13, 15, 5, 16.7 F: 4, 6, 7, 5, 7 | | L: 8.5, 5 F: 3.5, 5 | L: 9.5, 11, 11.5, 12.5 F: 4, 4.5, 5, 5 |
| | D=7 L: 12, 5, 13, 15, 17, 20 F: 4, 4, 5, 7, 7 | D=10 L: 29, 5, 32 F: 9, 12 | | D=7 L: 12, 5, 13, 5, 15, 5 F: 4, 5, 5, 5 | D=10 L: 19, 5 F: 6 |

输出信号

| 轴的旋转方向 Shaft rotational direction | 信号 Signal | 正向 Direction | 反向 Reverse |
|--------------------------------------|------------------------------|-----------------|---------------|
| 顺时针方向 C.W. | A(A~C端子间) A(Terminal A~C) | | |
| 逆时针方向 C.C.W. | B(B~C端子间) B(Terminal B~C) | | |

* 具体轴心规格, 可依客户需求订做。
Specific axis specifications can be customized according to customer needs.

广东科斯达电子科技有限公司
KSDKG Guang dong Keside Electronic Technology Co., Ltd.

TOLERANCE UNLESS OTHERWISE STATED:
Up to 5 ±0.2
Above 5 ~ 15 ±0.3
Above 15 ~ 30 ±0.4
Above 30 ~ 50 ±0.5
Angle ±0.3

3RD. ANGEL'S



UNITS

MM

| | | | |
|------------------------|----------------|------------------|---------------------------|
| DRAWN BY: Jack Lu | DATE: 07/23/13 | MAT'L | TITLE: EC ENCODING SWITCH |
| CHECKED BY: Jacky Chen | DATE: 07/23/13 | FINISH | MODLE: EC编码开关系列 |
| APPROVED BY: Tony Kao | DATE: 07/23/13 | SCALE: 1 : 1 | DWG NO. |
| | | SHEET NO. 1 of 1 | PART NO. |

| ITEM NO. | DESCRIPTION | DRAWN | DATE |
|----------|-------------|----------|--------|
| 2 | 公差及料號更新 | Jack | 072313 |
| 1 | 圖面更新 | Frank Wu | 021012 |

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| SIZE: A4 |
| VER: R2 |