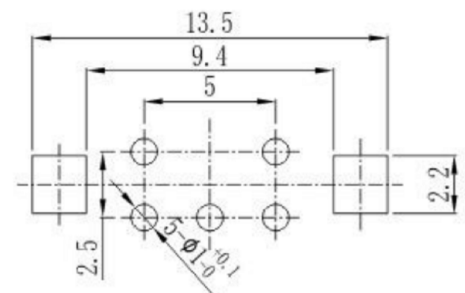


| Electrical characteristics 电气特性     |  |
|-------------------------------------|--|
| Rating Power 额定功率                   | DC5V 10mA  |
| Fluttering 振荡                       | T1,T3≤3ms  |
| Sliding Noise(Bounce)滑动杂音           | T2≤2ms   |
| Dielectric Voltage 耐电压              | For 1 minute or more 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 档位数量                | 30 Detents(Angle:12°±2°)<br>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  |



P. C. B MOUNTING HOLE DETAIL

EC11 轴心轴套规格

| F-TYPE | D=3.5           | D=5                                   | D=7                               | D=10                | Y-TYPE | D=3.5          | D=5                               | D=7                         | D=10          |
|--------|-----------------|---------------------------------------|-----------------------------------|---------------------|--------|----------------|-----------------------------------|-----------------------------|---------------|
|        | L 9 10<br>F 4 4 | L 10 12.5 13 15.5 16.7<br>F 4 6 7 5 7 | L 12.5 13 15 17 20<br>F 4 4 5 7 7 | L 29 5 32<br>F 9 12 |        | L 8.5<br>F 3.5 | L 9.5 11 11.5 12.5<br>F 4 4.5 5 5 | L 12.5 13.5 15.5<br>F 4 5 5 | L 19.5<br>F 6 |

输出信号

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

\* 具体轴心规格, 可依据客户需求订做。  
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.: KSD-EC-1109S     |
|                        |                | 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 |

| SIZE |
|------|
| A4   |
| VER  |
| R2   |