

一、特点

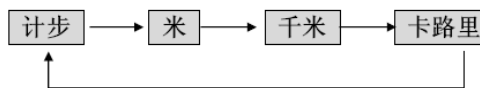
- 5 位 LCD 显示
 - 1) 计步数
 - 2) 测量距离 (m & Km)
 - 3) 测量卡路里
 - 4) 设定步距 & 体重
 - 5) 公英制邦定选择 (邦定为英制, 不邦为公制)
- 工作电压: 1.5V

二、功能描述

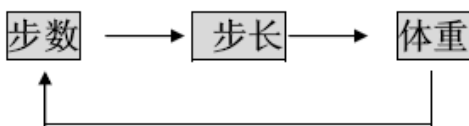
3 键版本:

MODE、**RESET** & **ADJUST** 键

- 按 **MODE** 键改变模式:



- 计步从 0 到 99999。
- 按 **ADJUST** 键改变模式:



- 步长范围: 30 到 120cm @5cm Icon 显示 “L”
10 到 50in @2in Icon 显示 “In”
- 体重范围: 30 to 150Kg @5Kg Icon 显示 “I”
70 to 400Lb @2in Icon 显示 “Lb”
- 按 **MODE** 键来设定步长和称重。
- 按 **RESET** 键来复位计步。

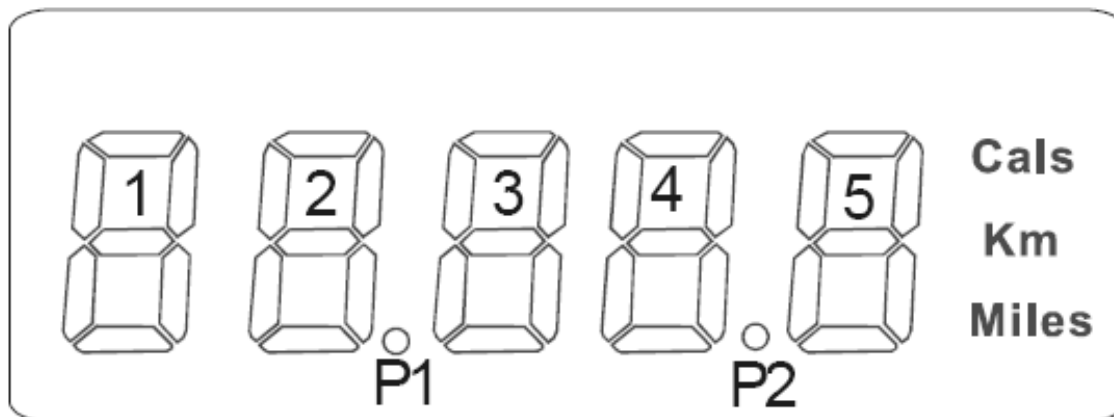
其它:

- 上电后, 默认值: 步距为 70CM, 体重是 60KG。
- 脉冲抖动, 当计步频率达到 4 步/秒时, 不计步数。
- 当速度低于 140 步/分, 正常计算距离&卡路里。
- 当速度大于 140 步/分, 计 30% 的距离&卡路里。
- 自动关机, 1 分 40 秒无任何操作则自动关机。



三键多功能计步器 (带高频距和体重功能)

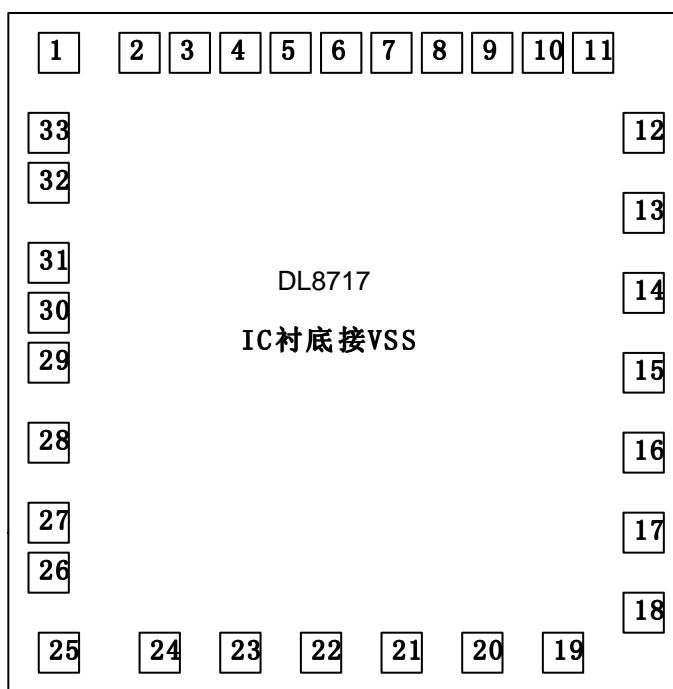
三、LCD 逻辑图



3V 1/4Duty 1/3Bias

| LCD Pin | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---------|-----|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| IC Pin | S11 | S10 | S9 | S8 | S7 | S6 | S5 | S4 | S3 | S2 | S1 | S0 | C3 | C2 | C1 | C0 |
| | P2 | cal | | 5a | | 4a | | 3a | | 2a | | 1a | | | | C0 |
| | | km | 5b | 5f | 4b | 4f | 3b | 3f | 2b | 2f | 1b | 1f | | | C1 | |
| | | mile | 5g | 5e | 4g | 4e | 3g | 3e | 2g | 2e | 1g | 1e | | C2 | | |
| | P1 | | 5c | 5d | 4c | 4d | 3c | 3d | 2c | 2d | 1c | 1d | C3 | | | |

四、PAD 位图





三键多功能计步器(带高频距和体重功能)

| 序号 | 脚位 | X | Y | 序号 | 脚位 | X | Y |
|----|--------|---------|---------|----|----------|---------|---------|
| 1 | VPP | 90.00 | 1400.00 | 18 | VSS | 1475.40 | 62.00 |
| 2 | COM<0> | 250.30 | 1411.50 | 19 | P1<4> | 1293.80 | 31.50 |
| 3 | COM<1> | 374.00 | 1411.50 | 20 | P1<3> | 1103.70 | 31.50 |
| 4 | COM<2> | 497.70 | 1411.50 | 21 | P1<2> | 899.80 | 31.50 |
| 5 | COM<3> | 621.40 | 1411.50 | 22 | P1<1> | 708.60 | 31.50 |
| 6 | SEG<0> | 745.10 | 1411.50 | 23 | P1<0> | 504.70 | 31.50 |
| 7 | SEG<1> | 868.80 | 1411.50 | 24 | OSCI | 313.50 | 31.50 |
| 8 | SEG<2> | 992.50 | 1411.50 | 25 | VDD | 61.00 | 31.50 |
| 9 | SEG<3> | 116.20 | 1411.50 | 26 | LXIN | 61.00 | 176.50 |
| 10 | SEG<4> | 1239.90 | 1411.50 | 27 | LXOUT | 61.00 | 300.20 |
| 11 | SEG<5> | 1363.60 | 1411.50 | 28 | BZB | 61.00 | 470.40 |
| 12 | SEG<6> | 1458.60 | 1212.45 | 29 | BZ | 61.00 | 640.60 |
| 13 | SEG<7> | 1458.60 | 1022.35 | 30 | RST-EXTB | 61.00 | 764.30 |
| 14 | SEG<8> | 1458.60 | 832.25 | 31 | TEST | 61.00 | 888.00 |
| 15 | P1<5> | 1458.60 | 642.15 | 32 | VCP | 61.00 | 1104.30 |
| 16 | P1<6> | 1458.60 | 452.05 | 33 | VCM | 61.00 | 1228.00 |
| 17 | P1<8> | 1458.60 | 261.95 | | | | |

五、 IC 脚位说明

| Pin Name. | Direction | Function Description |
|-----------|-----------|---|
| VPP | Power | Voltage doublet supply pin. |
| COM<0> | O | LCD Common output. |
| COM<1> | O | LCD Common output. |
| COM<2> | O | LCD Common output. |
| COM<3> | O | LCD Common output. |
| SEG<0> | O | LCD Segment output. |
| SEG<1> | O | LCD Segment output. |
| SEG<2> | O | LCD Segment output. |
| SEG<3> | O | LCD Segment output. |
| SEG<4> | O | LCD Segment output. |
| SEG<5> | O | LCD Segment output. |
| SEG<6> | O | LCD Segment output. |
| SEG<7> | O | LCD Segment output. |
| SEG<8> | O | LCD Segment output. |
| P1<5> | I/O | |
| P1<6> | I/O | |
| P1<8> | I/O | |
| VSS | Power | Negative power supply pin. |
| P1<4> | I/O | I/O port. Also P1<4> can be used as wake-up input pins. |
| P1<3> | I/O | I/O port. Also P1<3> can be used as wake-up input pins. |
| P1<2> | I/O | I/O port. Also P1<2> can be used as wake-up input pins. |
| P1<1> | I/O | I/O port. Also P1<1> can be used as wake-up input pins. |



三键多功能计步器 (带高频距和体重功能)

| | | |
|----------|-------|---|
| P1<0> | I/O | I/O port. Also P1<0> can be used as wake-up input pins. |
| OSCI | I | Oscillator input. |
| VDD | Power | Positive power supply pin. |
| LXIN | I | Low frequency oscillator input. |
| LXOUT | O | Low frequency oscillator output. |
| BZB | O | Piezo buzzer driving. |
| BZ | O | Piezo buzzer driving. |
| RST-EXTB | I | External reset. |
| TEST | I | For test purpose. |
| VCP | I | Voltage doubler capacitor positive. |
| VCM | I | Voltage doubler capacitor positive. |

六、 电路原理图

两种记步方式:
 1, 摆锤: ROSC=2.2M, C0=473P
 2, 按键: ROSC=360K, C0 不接
 RST 电阻: 5.1K

