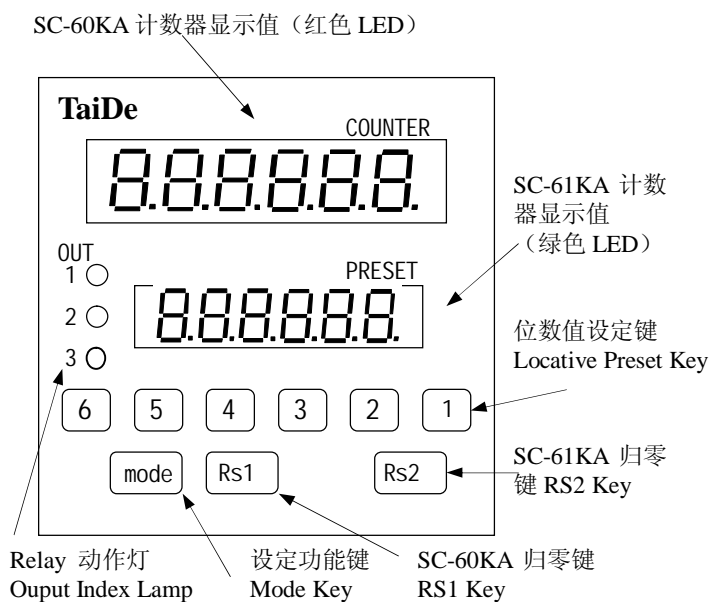


## 产品规格 Specification

型号规格 Item No	SC-6160KA
显示范围 Display Range	- 99999 ~ 999999
设定范围 Setting Range	1 ~ 999999
显示尺寸 Display Height	Count LED 0.39" (RED) Preset LED 0.3" (Green)
计数输入 Input Signal Mode	有接点输入 Contact Input:25HZ 无接点输入 NO Contact Input:3kHZ
输出方式 Output System	Relay Output (AC 250V/3A)
输出时间 Output Hold Time	0.1 ~ 9.9 Seconds (Variable)
复归方式 Reset System	External, Manual, AutoReset
输入信号 Input Level	NPN, Open Collector
停电记忆 Power Failure Memory	EEPROM Memory Keep Ten Years
信号电源 DC Out For Sensor	12V DC $\pm 5\%$ Max Electric Current Capacity 100Ma
电源电压 Power Supply	AC 110V/220V $\pm 15\%$ 50Hz/60Hz
消耗功率 Power Consumption	5.5 VA
耐温湿度 Operating Temperature Humidity	- 10°C ~ +50°C 35% ~ 85% RH
外形尺寸 External Dimensions	72mm $\times$ 72mm $\times$ 145mm (盘面开孔 Mounting Flush Dimension:68mm $\times$ 68mm)

## 面板说明 Panel Explanation



## 位数值设定键 Locative Preset Key

面板下方有编号 1~6, 6 个按键, 分别代表“个”“十”“百”“千”“万”“十万”位数, 若要改变目标值, 按下欲设定的位数键。当按下设定键时, 此位数值变为闪烁状态, 若一直按着, 数值由 0 至 9 往上改变直到欲设定的值, 放开按键 3 秒后或按下“Disp”键后即完成设定。

There are six numbers, six buttons on the front Panel. The change the preset value you can change them by pressing the push button directly below it, and release the push button when the digit reaches the desired value. Pressing the “Disp” button or release the button through 3 seconds then the mode will be set.

## Mode 键 选择设定功能类别

- (1)  $\overline{PC-1}$ : 设定第一段目标值。(对 SC-61KA 有效)
- (2)  $\overline{TR}$ : Relay 动作保持时间, 范围 0.1 ~ 9.9sec

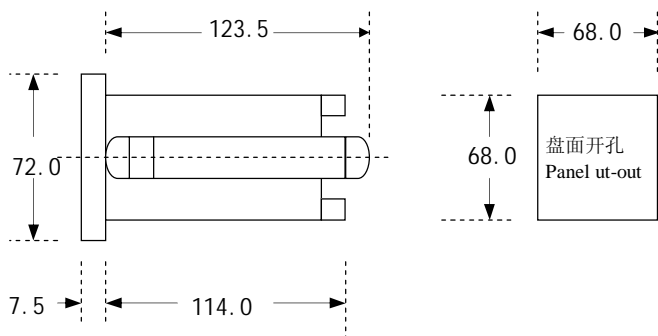
注: Set2 的值在计数时, 可直接在面盘上按数字键 0~6 设定。

Used to change display mode or operation mode

- (1)  $\overline{PC-1}$ : Set first preset value (for SC-61KA)
- (2)  $\overline{TR}$ : Relay action, holdtime, range 0.1 ~ 9.9sec

Note: Preset 0~6 key to setup the set2 value.

## 外形尺寸图 Dimension Diagram (Unit: mm)



## RS1 键 RS1 Key

按此键将 SC-60KA 的计数值归零  
Please press the “RS1” key for SC-60KA to zero.

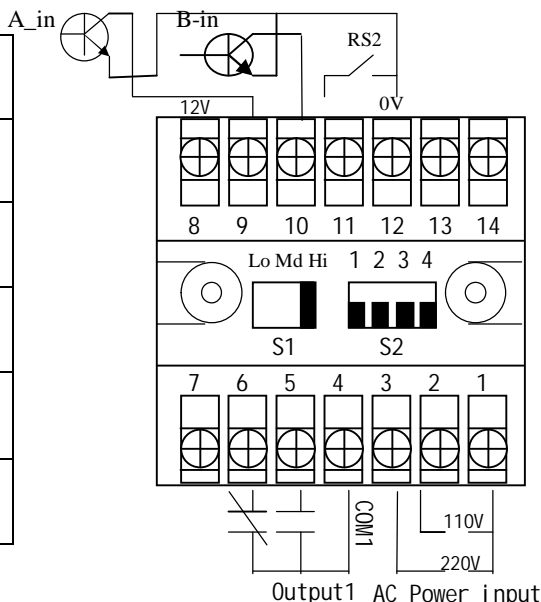
## RS2 键 RS2 Key

按此键将 SC-61KA 的计数值归零  
Please press the “RS2” key for SC-61KA to zero.

# SC-61KA 的设置流程 Preset Step

设定类别 Setup type	步骤 step
PS-I	mode PS-I →
Tr	mode PS-I → Tr →

# 端子说明 Connection Diagram

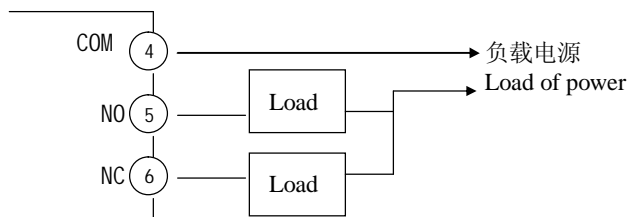


## 信号输入方式 Signal Input Type

端子 A\_in(9脚), B-in(10脚), RS2(11脚) 输入方式皆为 NPN 输入 (无电压入力)  
The signal input way of the terminal A\_in(9pin), B\_in(10pin), and RS2 (11pin) all are "NPN" input.

例: SC-6160KA 端子说明。  
Example: Connection Diagram of SC-6160KA.

## Relay 接点 Relay Contact



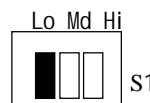
## S1: 输入频率开关

S1- Hi: 信号无滤波电容, 频率可达 3KHz。  
S1- Md: 信号有滤波电容, 频率可达 300Hz。  
S1- Lo: 信号有滤波电容, 频率可达 25Hz。



## S1: Response Time Switch

S1- Hi: Removes damping capacitor and allows operation up to 3KHz.  
S1- Md: Connects small damping capacitor and Limits counter frequency to 300Hz.  
S1- Lo: Connects small damping capacitor and limits counter frequency to 25Hz.



## S2 开关 S2 Switch

1: Relay 复归 N.R.C. Relay return N.R.C (只对 SC-61KA 起作用)

A: N: 手动 (MANUAL) S2-1 为 OFF, S2-2 为 OFF

计数值等于设定值时 Relay ON, 计数值继续上数, 直到手动或外部复归时, Relay 才复归, 值归零。  
When the counting value is equal to the preset value, the relay will turn on. The counter will keep counting up until we press down the "RES" button or connects the terminal 12 & 11 together at the same time, then the display value will return to zero.

B: R: 回归 (RETURN) S2-2 ON

计数值等于设定值时 Relay ON, 计数值继续上数, 待到时间 (由 Tr 设定) 后 Relay 复归, 值归零。  
When the counting value is equal to the preset value, the relay will turn on. The counter will keep counting up, but after several seconds, the relay returns to the original condition and the display value will return to zero.

C: C 继续 (CONTINUE) S2-1 ON

计数值等于设定值时 Relay ON, 计数值立即归零后继续上数, 而 Relay 到时间 (由 Tr 设定) 后复归。  
When the counting value is equal to the preset value, the relay will turn on and the display returns to zero. then the counter will keep on counting, and the relay will return to the original condition after several seconds.

2: 计数方式 (Counting Method)

A: S2-3 OFF: SC-60KA 和 SC-61KA 同时计数加 1.

B: S2-3 ON: 只有 SC-61KA 的计数值等于其设定值时, SC-60KA 的计数值才会加 1.

C: 注意在改变计数方式后, 必须切断电源再重新通电开机。

3: 输入方式 (Counting Method)

A: S2-4 OFF: 加算 (单相 A 入力) addition (single phase)

S2-4 OFF: addition (single A phase)

B: S2-4 ON: 加减算 (90° 相位差输入)

S2-4 ON: addition and subtraction (Quadrature input)

此计数模式常配合译码器 (encoder) 使用, 或配合两个 sensor, 但要注意相位差尽量为 90°。

This quadrature counting mode can be implemented by the rotary encoder or two sets of photoelectric sensors.

C: 注意在改变输入模式后, 必须切断电源再重新通电开机。

You must turn on the counter again when change the mode of the counter

