SESTOS™

Digital Counter

MANUAL Model: C1S

■ Features

- DIN(48X48mm) Digital counter
- Range 1 999900 with UP/DOWN mode, Max.5kcps
- MCU for digital control. High accuracy and reliability
- EEPROM store data for 10 years
- NPN and PNP input switchable
- 0.39" height LED, prevent dazzle, highly visible display
- Coded switch for set value easily
- Switching power supply and low consumption

*Thank you very much for selecting **SESTOS** products. Please read and understand this MANUAL before using this unit.



CE

■ Safety Precautions

△This product must be mounted on the panel, avoid electric shock.

Mhen the power is turned on, is not connecting the terminal, avoid electric shock.

- Ensure the product within the specification.
- Never disassemble, repair or modify the product, if needed please contact agent or us
- Do not use the product in locations subject to gases, dust, vibration, corrosive direct sunlight, water and oil, strong EMI

■ Specification

• Power and input: The power supply and input circuit are isolated. Voltage(Ordering): AC 100-240V $\pm 10\% 50/60$ Hz ≤ 5 VA

AC/DC 12-24V $\pm 10\% \le 4VA$

• Character: 4 Digitals 0.39"(9.9mm)height 7-segment red LED

• Contact output(C1S-R): AC 250V 3A(Resistive load) NO/NC

• SSR(C1S-V): 12V

• Life expectancy: Mechanical: 10,000,000 operations min.

Electrical: 100,000 operations min.

• Max.counting speed: $5kcps(Rate 1:1) \le 100Hz set L \ge 100Hz - 5KHz set H(see T2)$ 10 years, Data can be store or not by internal DIP switch (see T2) • Data backup:

• Control signals: ≥5ms (Reset, Gate)

• Control type: Contact/No-voltage input(NPN)

Contact/No-voltage input(NPN)/Voltage input(PNP) see T2 • Input type:

• Input level: High(logic) 4.5 to 30 VDC, Low(logic) 0 to 2.0 VDC

DC 12V/50mA(Max.) for sensor use only. • External power:

• Start timing: ≥100ms

• Reset method: Power on/External/Manual

45X45 mm Cutout size:

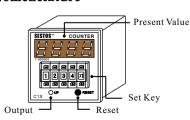
• Mounting Method: Flush mounting and screw terminals

• Weight: Approx. 130g

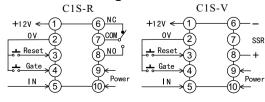
• Ambient temperature: Operating: -10~55°C (with no icing or condensation) Storage: -25~65°C (with no icing or condensation)

• Ambient humidity: 35~85% RH

■ Nomenclature



■ Terminal Arrangement



**+12V(Max.50mA) for sensor use only

■ Setting operation (T1)

UP Mode	X 1	Present Value X1	From 0 to Setting Value	
	X10	Present Value X10		
	X100	Present Value X100		
DOWN Mode	<u>X1</u>	Present Value X1		
	<u>X10</u>	Present Value X10	From Setting Value to 0	
	<u>X100</u>	Present Value X100		

- Press the "+" or "-" button of panel to change the setting value
- When the value is changed, operate the new setting value after reset

■DIP Switch Setting(Inner)

If need change the setting, please refer to the following step

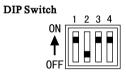


Disassembly of case(Ensure the power is turned off)

- 1/ Press two button in ① direction
- 2/ Push the part out of case in ② direction
- 3/ Setting the DIP switch according your need
- 4/ After setting, insert the part in ② opposite direction

DIP Switch Setting (T2)

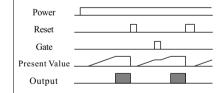
Position	1	2	3	4
Function	NPN	PNP	Data Storage	Input Speed
ON	•		Yes	High
OFF		•	NO	Low
Factory setting	NPN		Yes	High



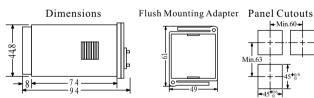
Note: Select switch 1 either or 2 ON position.

Set Low when the signal speed under 100Hz, High is over 100Hz to 5KHz

■ Operation Charts



■ Dimensions with Flush Mounting Adapter



*All units are in millimeters unless otherwise indicated. ※Flush mounting adapter: YX-Y1 (Provided)

■ Precautions

- Separate the input signal cables from the power line.
- Short connecting wire from the sensor to the product is the best, if not please using shield cable.
- Use and store the product within the ratings specified for temperature and humidity
- The period of power off to on must be over 1 s, Suggestion use terminal for reset

*Specifications and design subject to modifications without notice

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MN-C1S-EN