

Macromatic

ANALOG TIMER
TAA2U

M A N U A L

CE PAUS



For your safety, please read the following before using.

Caution for your safety

* Please observe the cautions that follow:

Warning Serious injury may result if instructions are not followed.
Caution Product may be damaged, or injury may result if instructions are not followed.

* The following is an explanation of the symbols used in the operation manual.
* Caution/Injury or danger may occur under special conditions.

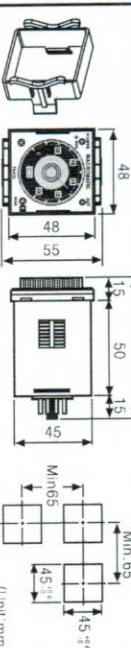
Warning

- In case of using this unit with machines/Nuclear power control, medical equipment, vehicle, train, airplane, combustion apparatus, entertainment or safety device etc), it is required to install fail-safe device, or contact us.
- Install the unit on a panel.
- Do not connect, inspect or repair when power is on.
- Do not disassemble the case. Please contact us if it is required.

Caution

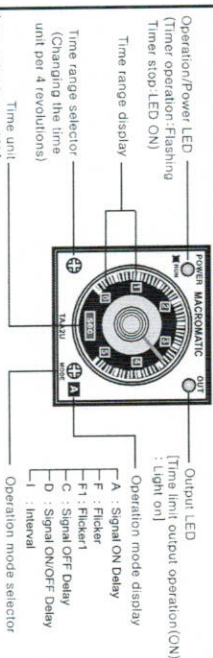
- This unit shall not be used outdoors.
- Please observe the rated specifications.
- Do not use beyond of the rated switching capacity of relay contact.
- In cleaning unit, do not use water or an oil-based detergent and use dry towels.
- Do not use this unit in place where there are flammable or explosive gas, humidity, direct ray of the light, radiant heat, vibration and impact etc.
- Please be careful not to blow dust or wire clippings into the unit.

Dimensions



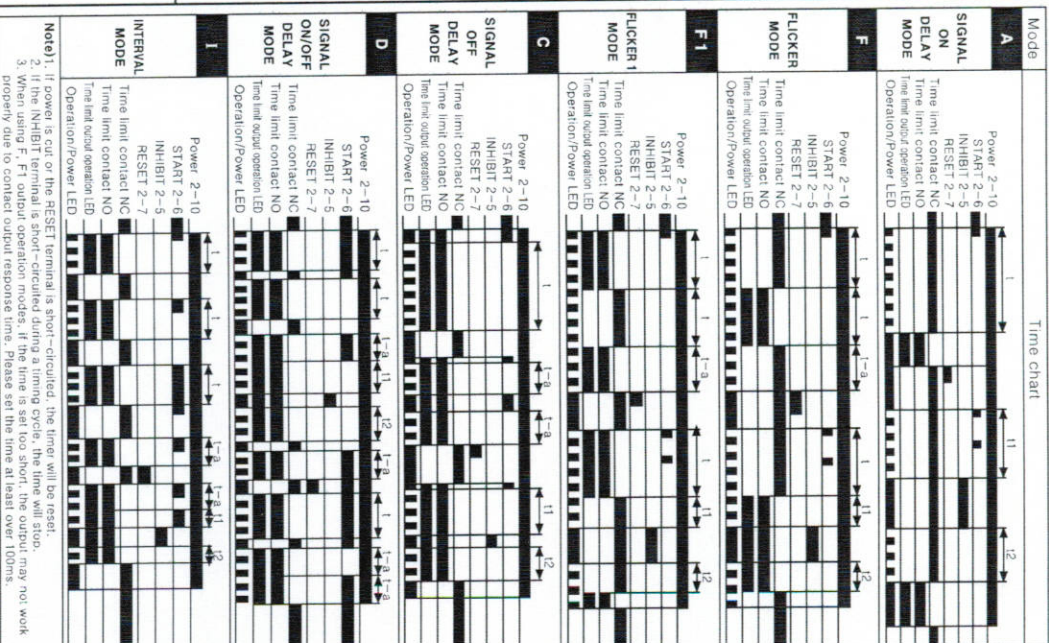
* The above specifications are subject to change without notice.

Front panel identification

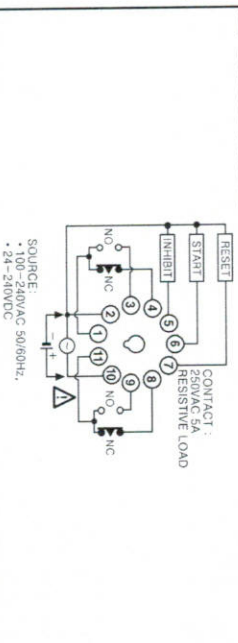


Output operation mode

[1: Setting time, t=11+12, D1-a]



Connections



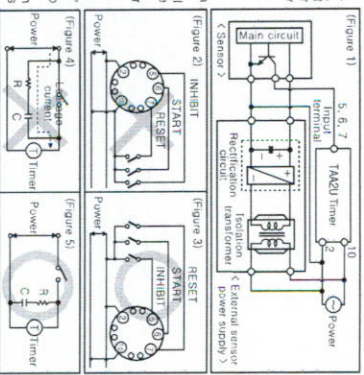
Specifications

Model	TAA2U
Control time setting range	0.05 sec - 100 hour
Power supply	90 - 110% of rated voltage
Allowable voltage range	100-240VAC 3.5VA 24-240VDC 1.5W
Power consumption	Max. 100mA
Return time	Min. 50ms
Min. input width	START RESET INHIBIT
Input	No-voltage input ** Short-circuit impedance : Max. 1kΩ
Output	Residual voltage Max. 0.5V
Output Capacity	Open-circuit impedance : Min. 100kΩ
Relay life cycle	250VAC 5A resistive load Min. 10,000,000 times
Repeat error	Max. ±0.2% ±11ms
Setting error	Max. ±5% ±50ms
Voltage error	Max. ±2%
Temperature error	100% (at 50V/0°C)
Insulation resistance	2000VAC 50/60Hz for 1 minute
Dielectric strength	-10 - 55°C (at non-freezing status)
Ambient temperature	-25 - 65°C (at non-freezing status)
Storage temperature	35 - 85%RH
Ambient humidity	Approx. 90%
Unit weight	

Caution for using

- Power circuit for TAA2U Timer is designed without using a transformer. For the power of sensor, therefore, use isolation transformer which is not grounded on secondary side in order to prevent unnecessary current flow as shown in figure 1.
- Please use the terminal ② as the common terminal as shown in Figure 3 terminal as shown in Figure 2. It will cause damage to inner circuit of TAA2U Timer.
- Please connect DC power input after checking polarity of power.
- When supply the power to the timer, it might cause malfunction due to leakage current though R and C. Please connect R and C as shown in Figure 5 to prevent malfunction as shown in Figure 5.
- In order to apply input signals (START, RESET, INHIBIT), short-circuit the terminal no. ②-③, ④-⑤, ⑥-⑦, ⑧-⑨. Do not connect any other power line in parallel. It might cause malfunction if change the setting time, time range or operation mode during unit operating. Please change the setting time, time range or operation mode after cut the power off.
- Do not use this unit at below places:
 (1) Place where there are severe vibration or impact.
 (2) Place where there are direct ray of the sun.
 (3) Place where there are strong air flow or noise.
 (4) Place where there are strong electric field or electric noise are generated.
 (5) Installation environment.
 (6) It shall be used indoor.
 (7) Altitude Max. 2000m
 (8) Installation Category II

* It may cause malfunction if above instructions are not followed.



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