Macromatic

ANALOG TIMER
TAA1U

For your safety, please read the following before using.

Caution for your safety

1. Please keep these instructions and review them before using this unit.
   2. Please observe the cautions that follow.
   3. Warning: Serious injury may result if instructions are not followed.
   4. Caution: Product may be damaged, or minor injury may result if instructions are not followed.
   5. The following is an explanation of the symbols used in the operation manual.
   6. Caution: Injury or damage may occur under special conditions.

Warning

1. In case of using this unit with machinery (Nuclear power control, medical equipment, vehicle, train, airplane, combustion apparatus, entertainment or safety devices, etc.), it is required to install fail-safe device, or contact us.
   2. It may cause a fire, human injury or property loss.
   3. A unit on a panel.
   4. It may give an electric shock.
   5. Do not connect, inspect or repair when power is on.
   6. Do not disassemble this unit; it is not required.
   7. It may cause an electric shock or a fire.

Caution

1. This unit shall not be used outdoors.
2. It may shorten the life cycle of the product or give an electric shock.
3. Please observe the rated specifications.
4. It may shorten the life cycle of the product and cause a fire.
5. Do not use beyond the rated switching capacity of Relay contact.
6. It may cause inrush current failure, contact melt, contact failure, relay broken and fire etc.
7. In cleaning unit, do not use water or an oil-based detergent and use dry towels.
8. It may cause an electrical shock or a fire.
9. Please use this unit in a place where there are flammable or explosive gas, humidity, direct ray of the light, radiant heat, vibration and impact etc.
10. It may cause a fire or an explosion.
11. Please be careful not to blow dust or wire droppings into the unit.
12. It may cause a fire or malfunction.

Front panel identification

- Operation/Pow er LED (Timer operation flicker, Timer stop LED ON)
- Time range display
- Time range selector
- Time unit/sec, min, hour, 10h)
- Power Source: 24VAC, 24VDC
- Flicker: 1
- Fl icker 1 mode display
- Operation mode display
- Open stop LED

The above specifications are subject to change without notice.

Dimensions (Unit:mm)

- Panel cut-out Min. 50
- Panel cut-out Min. 45

Time specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Time setting range</th>
<th>Power supply</th>
<th>Allowable voltage range</th>
<th>Power consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>TAA1U</td>
<td>0.05~0.5 sec</td>
<td>100<del>240VAC 50/60Hz, 24</del>240VDC (Universal)</td>
<td>90 to 110% of rated voltage</td>
<td>100<del>240VAC : 0.3VA, 24</del>240VDC : 2W</td>
</tr>
</tbody>
</table>

Return time

Max. 100ms

Control output

- Contact Type: Time limit DPDT (2c) or Instantaneous SPDT (1c)
- Time limit SPDT (1c) selectable according to output operating mode

Specials

- Capacitor: 250VAC 5A-resistive load
- Relay: Min. 10,000,000 operations
- Min. 10,000,000 operations (at 250VAC 5A resistive load)
- Repeal error: Max. ±10%
- Setting error: Max. ±5%
- Temperature error: ±5%
- Temperature: 0~50°C
- Humidity: 35~85%RH

Output operation mode

- Setting time: 1min, 10h (Reset time: 0min, 0sec)
- Contact A1, B1, C1, D1 output operating mode

Connections

- [A], [F] output operation mode
- [A1], [B1], [C1], [D1] output operation mode

Caution for using

1. Please connect DC power input after checking polarity of power.
2. When supply the power to the timer, connecting shown in Figure 1 might cause malfunction, to leakage current through R1 and R2, please use with take the connections shown in Figure 2 to prevent malfunction.
3. It might cause malfunction if changing the setting time, time range or operation mode during operating unit.
4. Please change the setting time, time range or operation mode after cut the power off.
5. Do not connect the unit at the below places.
   - Places where there are severe vibration or impact.
   - Places where strong static electricity or acids are used.
   - Places where there are direct ray of the sun.
   - Places where strong magnetic field or electric noise are generated.
6. Installation environment
   - If not, it may cause malfunction
   - Ambient temperature: -10~65°C (not-freezing status)
   - Storage temperature: -25~65°C (not-freezing status)
   - Ambient humidity: 35~85%RH
   - Unit weight: Approx. 90g

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