1. Verification that the plug cover is installed in the plug unit.

2. Verify that the module is not the target of the marking symbol which indicates that the module is for use in the machine category (II) or category 2 equipment (category 1 equipment has the marking symbol of "X" on the back panel).

3. Using a pliers or special tool, push the plug cover into the plug unit, and then replace it with the module.

4. Make sure that the module is properly connected to the power supply and the control system.

5. Ensure that the module is properly grounded to prevent electrical shock.

6. Operate the module in accordance with the instructions provided in the User's Manual.

7. Keep the module clean and free from debris to maintain optimal performance.

8. Perform regular maintenance and inspection of the module to ensure its continued reliability.

9. Store the module in a cool, dry location away from direct sunlight and extreme temperatures.

10. Follow all local and national regulations regarding the disposal of electronic waste.

11. For more details, please contact the local Mitsubishi Electric sales site.

12. Read the safety precautions section of the User's Manual for important safety information before using the module.

For more details please contact the local Mitsubishi Electric sales site.
The output terminals of the CL1Y4-T1C2 are fixed to the sink output.

### 4. Wiring

#### 4.1 Connecting and wiring of connector for 69 interface

Wire the connector for I/O interface (cA) according to the following procedure:

1. Verify that the plug cover is installed in the plug unit.

2. Install the plug cover into the plug unit before the cable is connected to the plug unit.

3. Once the plug is pressure-connected, it can no longer be removed.

   - When inserting the cable, confirm that it has been inserted completely. If an insertion torque exceeding the specified value is applied to the plug unit, the plug may be damaged.

4. Insert the connector into the connector for I/O interface.

5. Tighten the module securely using 0.69 interface or installation screws within the specified torque range to secure the module.

   - When using the module with the connector for I/O interface, check that the module is securely connected.

6. Install the module in a suitable location.

   - If the exterior of the module is metal and the connector is not securely connected, an excessive force may be imposed on the module, and malfunction may occur.

#### 4.2 External wiring

The output terminals of the CL1Y4-T1C2 are fixed to the sink output.

### 5. Specifications

#### 5.1 General specifications

- Type: Programmable Controller (Open Type Equipment) Remote I/O module
- Models: Products manufactured:
- Type: Programmable Controller (Open Type Equipment) Remote I/O module
- This product is designed for use in industrial applications.
- Contains hazardous substances (Names, quantities, contained parts):
- This product has been manufactured as a general-purpose part for general use applications.
- It is necessary to install the CL1 series module in a shielded metal control panel.

#### 5.5 Output specifications

- Use this product in Zone A*1 as defined in EN61131-2.
- Set up using a slotted screwdriver with a tip width of 0.9 mm or less.

### 6. Outside Dimensions

- 2.0 to 5.0 mm (0.079 to 0.197") opening (with 3D mold base)

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*Note: This symbol mark is for China only.*

Contains hazardous substances (Names, quantities, contained parts):

- Input is ON: Lit
- OFF: Clears the output.

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terminal voltage</td>
<td>24 DC (Vdc)</td>
</tr>
<tr>
<td>Maximum current</td>
<td>25 mA (per output)</td>
</tr>
<tr>
<td>Maximum power</td>
<td>100 mW (per output)</td>
</tr>
<tr>
<td>Overload protection</td>
<td>1.0 ms (per output)</td>
</tr>
<tr>
<td>Short-circuit protection</td>
<td>1.0 ms (per output)</td>
</tr>
<tr>
<td>Normal operation</td>
<td>1.0 ms (per output)</td>
</tr>
<tr>
<td>Flickering</td>
<td>1.0 ms (per output)</td>
</tr>
<tr>
<td>Status indicator</td>
<td>LED indicator (red)</td>
</tr>
<tr>
<td>Output capacity</td>
<td>1.0 ms (per output)</td>
</tr>
<tr>
<td>Load capacity</td>
<td>1.0 ms (per output)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>1.0 ms (per output)</td>
</tr>
<tr>
<td>Life cycle</td>
<td>1.0 ms (per output)</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>24 DC (Vdc)</td>
</tr>
<tr>
<td>Humidity</td>
<td>0% to 90% RH (non-condensing)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20°C to 70°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>0% to 90% RH (non-condensing)</td>
</tr>
<tr>
<td>Voltage tolerance</td>
<td>±10% (10 to 57Hz)</td>
</tr>
<tr>
<td>Current tolerance</td>
<td>±10% (10 to 57Hz)</td>
</tr>
<tr>
<td>Operating life</td>
<td>100,000 hours</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP00</td>
</tr>
<tr>
<td>Mass (weight)</td>
<td>0.04 kg (0.09 lbs)</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>50 x 100 x 125 mm</td>
</tr>
</tbody>
</table>

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*Attention: Do not push the plug cover into the plug unit before the cable is connected.*

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*Note: This symbol mark is for China only.*

Contains hazardous substances (Names, quantities, contained parts):

- Input is ON: Lit
- OFF: Clears the output.
**SAFETY PRECAUTIONS**

Please read and understand these precautions to use this product safely and correctly. Before using the product, you should conduct a safety test and make sure that the product is used under the correct environmental conditions. Always forward it to the end user.

**DESIGN PRECAUTIONS**

- The output terminals of the CL1Y4-T1C2 are fixed to the sink output. Wire the connector for I/O interface (e-CON) according to the following:

**CAUTION**

- Tighten the module securely using DIN rail or installation screws within the range specified in the specification.
- Do not directly touch the module's conductive parts. Doing so could cause an electric shock or malfunction.
- Use the module in an environment that meets the general specifications and terminal arrangement. Connecting to a power supply different from rating transformers may cause fire, product failure or malfunction.
- Do not have control cables and connection cables bundled with or near the module. Properly. If the cross section of the cable is not round, the cable cannot be inserted smoothly. Cut the cable tip using pliers, etc., and make it as fine as possible.
- Power frequency magnetic field
- Electrostatic discharge
- Radiated electromagnetic field
- Fast transient burst
- Impulse
- Radiated conducted burst
- Surge

**INSTALLATION PRECAUTIONS**

- Equipment requirements and tests
- Connection to e-CON or PLC
- Installation
- Operating

**WARNING**

- The module case is made of resin; do not drop it or subject it to strong shock. A module damage may result.
- Do not touch the terminals when the power is ON. It may cause an electric shock or malfunction.
- Do not touch the terminals when the power is OFF. It may cause a hazardous condition and cause death or serious injury if not carried out properly.
- Procedures which may result in a dangerous condition and cause death or serious injury if not carried out properly.
- Carefully observe the following label:

**Note:**

- The effect of the above caution may be increased by excessive force. Use the module and the connector cables without applying any force on them. Otherwise, such cables may be broken or fall.

**INSTALLATION REMOVAL**

- Connect the connector and the module with the correct orientation as shown in the manual. Using this module in an incorrect orientation or with incorrect orientation may cause the damage to the module itself. The orientation is specified in the guideline of the product.
- Before using the product for special purposes such as nuclear power, electric power, or other tasks, consult with the manufacturer regarding the orientation to ensure safe use.

**DISPOSAL PRECAUTIONS**

- Use the module in accordance with the contents of the notification complying with the following: EN61131-2:1994/A11:1996/A12:2000

**WIRING PRECAUTIONS**

- Connect the connector and the module with the correct orientation as shown in the manual. Using this module in an incorrect orientation may cause the damage to the module itself. The orientation is specified in the guideline of the product.
- Before using the product for special purposes such as nuclear power, electric power, or other tasks, consult with the manufacturer regarding the orientation to ensure safe use.

**PARALLEL CONNECTION**

- The output terminal is floating. Use the module in accordance with the contents of the notification complying with the following: EN61131-2:1994/A11:1996/A12:2000

**WARNING**

- If the mounting surface has concave and/or convex, an excessive force and cause superficial to medium injury, or physical injury. Procedures which may lead to a dangerous condition and cause death or serious injury if not carried out properly.

**Note:**

- Provisions which may result in a dangerous condition and cause death or serious injury if not carried out properly.

**1. Outline of Product**

This product is an output connector (type output module connected to e-CON). This protective four output points (transistor output).

**2. Name and Setting of Each Part and Terminal Arrangement**

Connect the connector and the module with the correct orientation as shown in the manual. Using this module in an incorrect orientation or with incorrect orientation may cause the damage to the module itself. The orientation is specified in the guideline of the product.