4. Wiring

4.1 Wiring operation of cable

1) Installation of cable

Insert the tool for spring clamp terminal block in the tool insertion entrance of the CLY14-T1S2 (square shape) to install the terminal block into the terminal block insertion hole (M4 mounting screw) with the tool. Inserting the terminal block standard terminal block into the terminal block insertion hole (M4 mounting screw), and pull out the tool. Connecting the power supply will be disconnected until the power supply is not disconnected at the removal of the electric wire. Moreover, wiring work is best when the module is disassembled for maintenance or replacement. Redo the wiring work when the electric wire is disconnected while the module is not disconnected. Moreover, whenever the electric wire and module shall be connected in accordance with the diagram. Use the terminal block, and connect the wire as you see and read it properly. Always secure the terminal block correctly.

**WARNING**

- Do not leave the module in a dangerous environment where it may suffer damage due to external pressure or environmental conditions.
- Do not attempt to modify or repair the module or any of its parts.
- Do not apply excessive force to the module or any of its parts.
- Do not use the module in any environment where it may be exposed to direct sunlight, high temperatures, or high humidity.
- Do not use the module in any environment where it may be exposed to any harmful substances, such as oil, paint, or acid.

**SAFETY PRECAUTIONS**

- Please read this manual carefully and pay special attention to safely in order to use this module correctly.
- Install the module so that the clearance of 1 to 2mm (0.04" to 0.08") is maintained.
- Do not apply excessive force when installing or removing the module to/from the panel. Failure to do so may cause module failure or injury to personnel.
- When installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.
- Do not install the module in an environment where there is a risk of water or dust entering the module.
- When installing the module, ensure that the clearance of 1 to 2mm (0.04" to 0.08") is maintained.
- Use this module in environments where the ambient temperature is within the specified range.
- Use this module in environments where the humidity is within the specified range.
- Use this module in environments where the ambient pressure is within the specified range.
- Use this module in environments where the altitude is within the specified range.
- Use this module in environments where the vibration is within the specified range.
- Use this module in environments where the shock is within the specified range.
- Use this module in environments where the electrical characteristics are within the specified range.
- Use this module in environments where the electromagnetic compatibility is within the specified range.
- Use this module in environments where the mechanical characteristics are within the specified range.
- Use this module in environments where the environmental conditions are within the specified range.
- Use this module in environments where the installation conditions are within the specified range.
- Use this module in environments where the electrical safety is within the specified range.
- Use this module in environments where the electrical interference is within the specified range.
- Use this module in environments where the electrical noise is within the specified range.
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4. Wiring

4.1 Wiring operation of cable

1) Installation of cable

Insert the spring clamp terminal block in the test insertion of EN10164-3 (square hole) up to the interior surface.

Insert the electric wire in the electric wire insertion entrance (screw hole) with the tab slot for spring clamp terminal block inserted and pull out the tab.

Cover the right hand of the electric wire after the tool is pulled out, and clampingavra.

2) Detaching of cable

Insert the tab for spring clamp terminal block in the test insertion entrance of the desired terminal number (square hole) up to the interior surface, and pull out the electric wire.

3) Acceptable electric wire

Size of acceptable electric wire: 0.3 to 1.5 mm² (AWG22 to 16)

Electric wire flaking off length: 8(0.32") to 11(0.43") mm

4.2 External wiring

The output terminals of the CL1Y4-T1S2 can be wired to the output terminals.

5. Specifications

5.1 General specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>24V (±10%)</td>
</tr>
<tr>
<td>Current</td>
<td>50mA (when all points are ON)</td>
</tr>
<tr>
<td>Ripple ratio</td>
<td>Within 5%</td>
</tr>
<tr>
<td>Frequency</td>
<td>57 to 150Hz 9.8m/s²</td>
</tr>
<tr>
<td>Acceleration</td>
<td>10 to 57Hz</td>
</tr>
<tr>
<td>Vibration</td>
<td>5 to 95%RH: Dew condensation shall not be considered.</td>
</tr>
<tr>
<td>Temperature</td>
<td>0°C to 55°C</td>
</tr>
</tbody>
</table>

5.2 Output specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output voltage</td>
<td>10 to 32V DC (Voltage ripple: Within 5%)</td>
</tr>
<tr>
<td>Output current</td>
<td>50mA (when all points are ON)</td>
</tr>
<tr>
<td>Ripple ratio</td>
<td>Within 5%</td>
</tr>
<tr>
<td>Frequency</td>
<td>57 to 150Hz 9.8m/s²</td>
</tr>
<tr>
<td>Acceleration</td>
<td>10 to 57Hz</td>
</tr>
<tr>
<td>Vibration</td>
<td>5 to 95%RH: Dew condensation shall not be considered.</td>
</tr>
<tr>
<td>Temperature</td>
<td>0°C to 55°C</td>
</tr>
</tbody>
</table>

5.3 Performance specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Life span (usage)</td>
<td>100,000 times</td>
</tr>
<tr>
<td>Number of connections</td>
<td>50,000 times</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>24V DC</td>
</tr>
<tr>
<td>Power consumption</td>
<td>1W (when all points are ON)</td>
</tr>
<tr>
<td>Protection</td>
<td>IP20</td>
</tr>
</tbody>
</table>

6. Outside dimensions

- Dimensions (unit:mm)
  - Width: 60.5(2.39")
  - Height: 35.1(1.38")
  - Depth: 34.5(1.36")

- Weight (unit:gm)
  - 70gm (when all points are ON)
2) Detaching of cable
With the tool for spring clamp terminal block inserted, and pull out the tool.
Insert the tool for spring clamp terminal block in the tool insertion entrance.

4.1 Wiring operation of cable

2) Detaching of cable
With the tool for spring clamp terminal block inserted, and pull out the tool.
Insert the tool for spring clamp terminal block in the tool insertion entrance.

4. Wiring
4.1 Wiring operation of cable
1) Installation of cable
Insert the tool for spring clamp terminal block in the tool insertion entrance of CLY1Y4-T1S2 (square hole) up to the interior surface.
Insert the electric wire in the electric wire insertion entrance (round hole) with the tool for spring clamp terminal block inserted, and pull out the tool.

4.2 External wiring
The output terminals of the CLY1Y4-T1S2 can be fixed to the wire output observer.

5. Specifications
5.1 General specifications

5.2 Output specifications

5.3 Performance specifications

6. Outside Dimensions