**SERIAL INTERFACE**

**Connecting and wiring of connector for I/O interface**

1. **Safety precautions**
   - Ensure the product is connected securely to ensure stable operation in environments with high electromagnetic interference.
   - Always connect the power supply to the product to prevent damage to the module and remote I/O modules.
   - Use the appropriate cables for communication with the PLC or other devices.

2. **Installation**
   - Install the module on a flat surface.
   - Do not have control cables and connection cables bundled with or connected to the module.
   - Remote input and output cannot be switched on/off when a data link falls into a communication problem.

3. **Wiring precautions**
   - Make sure to use the appropriate wire size for each function to prevent overcurrent or voltage drops.
   - Use the correct connectors and ferrules for each function to ensure a secure and reliable connection.

4. **Rating and maintenance precautions**
   - Check the module and connector pins for damage or wear after installation.
   - Keep the module clean and free of dust and other debris to prevent overheating or malfunction.

5. **Specifications**
   - The module can operate continuously at 35°C for 12 hours, or at 40°C for 8 hours.
   - The module can withstand an ambient temperature of -10°C to 60°C.
   - The module can withstand a humidity of 95% or less with no condensation.

**5.2 Input specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>19 V or more/3 mA or more</td>
</tr>
<tr>
<td>Power supply</td>
<td>24V DC</td>
</tr>
<tr>
<td>Rated input voltage</td>
<td>24V DC</td>
</tr>
<tr>
<td>Withstand voltage</td>
<td>-50% (at 24V DC)</td>
</tr>
<tr>
<td>Input capacitance</td>
<td>100% (at 24V DC)</td>
</tr>
<tr>
<td>Input resistance</td>
<td>1.5ms</td>
</tr>
<tr>
<td>Rated output voltage</td>
<td>24V DC</td>
</tr>
<tr>
<td>Output capacitance</td>
<td>0.075 mm</td>
</tr>
<tr>
<td>Output resistance</td>
<td>0.04 kg (0.09 lbs)</td>
</tr>
<tr>
<td>Rise time</td>
<td>0.07 ms</td>
</tr>
<tr>
<td>Fall time</td>
<td>0.07 ms</td>
</tr>
<tr>
<td>Load capacity</td>
<td>0.075 mm</td>
</tr>
<tr>
<td>Noise immunity</td>
<td>0.075 mm</td>
</tr>
</tbody>
</table>

**6. Outside Dimensions**

- Width: 25.4 mm
- Height: 7.5 mm
- Depth: 25.4 mm

**Wiring precautions**

- When inserting the cable, the cable may stick out from the front of the module. Use a tool to press the cable in to prevent this from occurring.
- Use the module in a horizontal position only.
- Do not use the module in environments with high vibration or shock.

**Installation precautions**

- When installing the module, use a DIN rail to secure it in place.
- Do not disassemble or modify the module. Doing so may cause failure, damage to the module, or injury.
- When connecting or removing the module, be sure to turn off the power supply.

**Warranty**

- Mitsubishi Electric Corporation cannot be held responsible for any damages or accidents caused by improper installation or use of the module.

**Design precautions**

- This product is designed for use in industrial applications. Before using the product, consult with the manufacturer or supplier.
- This product is not designed for use in living environments.
- This product is not designed for use in environments with high moisture or dust levels.
- This product is not designed for use in environments with high temperature or humidity levels.

**Country/Region Sales office/Tel**

- France: NANTERRE CEDEX, France
- Germany: MITSUBISHI ELECTRIC EUROPE B.V.
- Italy: MITSUBISHI ELECTRIC EUROPE B. V.
- UK: MITSUBISHI ELECTRIC EUROPE B.V. UK Branch
- Russia: MITSUBISHI ELECTRIC (RUSSIA) LLC
- China: MITSUBISHI ELECTRIC CHINA LTD.
4. Wiring

4.1 Connecting and wiring of connector for 6D interface

Wire the connector for 6D interface (4-CON) according to the following procedures:

1. Verify that the plug cover is installed in the plug unit.
2. Insert the connector into the plug unit before the cable is connected.
3. If the connector is not plugged in, tighten the plug cover.
4. If a plug cover is not plugged in, it cannot be removed.
5. When inserting the cable, confirm that it has been inserted completely.
6. Insert the connector into the plug unit before the cable is connected.
7. Insert the connector into the plug unit before the cable is connected.
8. Insert the connector into the plug unit before the cable is connected.
9. Insert the connector into the plug unit before the cable is connected.
10. Insert the connector into the plug unit before the cable is connected.

4.2 External wiring

4.2.1 The action of the input terminal of CL1X4-D1C3 by using the power supply from the CC-Link/LT interface

The input terminal action can be used by using the power supply from the CC-Link/LT interface. The input terminal action can be used by using the power supply from the CC-Link/LT interface.

4.2.2 The action of the input terminal of CL1X4-D1C3 by using the power supply from the CC-Link/LT interface

The input terminal action can be used by using the power supply from the CC-Link/LT interface. The input terminal action can be used by using the power supply from the CC-Link/LT interface.

5. Specifications

5.1 General specifications

5.2 Input specifications

5.3 Performance specifications

6. Outside Dimensions
4. Wring

4.1 Connecting and wiring of connector to 2D interface

Connect the connector to the 2D interface. The 2D interface and the connector serve as interface between the CC-Link module and external equipment.

4.2 External wiring

Use the input and output signal lines of the CC-Link module as utilities in the same manner as the input and output signals of the module.

5. Specifications

5.1 General specifications

5.2 Input specifications

5.3 Performance specifications

6. Outside Dimensions

---

### Diagrams

1. **Diagram 1:** Connection Diagram
2. **Diagram 2:** Functional Diagram
3. **Diagram 3:** Electrical Diagram

---

### Tables

1. **Table 1:** Compliance with Standards
2. **Table 2:** Performance Specifications (Input/output)

---

### Notes

- Connect the connector to the 2D interface.
- Use the input and output signal lines as utilities.
- Connect the connector to the 2D interface.}

---

**Note:** This symbol mark is for China only. Different symbols may be applied in other countries. For more details, please refer to the local Mitsubishi Electric sales office or website.