1. Introduction
1.1 Introduction

Connections can be made to the following series of PLCs.

FX2N Series

FX3GC Series

1.2 Incorporated items

2. Transmission

2.1 Applicable PLC

2.2 Transmission Standard

2.3 Effective Transmission Distance

2.4 Baud rate set switch

2.5 Number of stations

2.6 Remote input RX0 to RX7 (set station+2)

2.7 Remote output R00 to R0F (set station+2)

3. Terminal Layout

3.1 Terminal layout

3.2 Communication cable connection terminal

3.3 Power supply connection terminal

3.4 Terminals for remote buffer memory

4. Performance Specifications

4.1 Performance Specifications

5. Buffer memory

5.1 Buffer Memory

5.2 Setting and Initialization

5.3 Maximum transmission distance and transmission speed

6. Control Program Example

6.1 Control Program Example

7. Acknowledgments

8. Index

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Note: This symbol mark is for China only.

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1.5 Terminal screws and tightening torque

For the terminal screws of FX2N, 40CA screws are used. Tightening torque is from 0.98 to 1.3 Nm. Do not forget to tighten terminal screws with a tool outside the allowable tightening range. Failure to tighten securely may cause malfunction or damage to the product. For information on the standard tightening torque for other screws, refer to Figure 1.8. The tightening torque shown above is for the FX2N-32CCL, 8-bit and 16-bit CPU. The following table shows the tightening torque for the FX2N-32CCL. Use the same tightening torque for the other models.

<table>
<thead>
<tr>
<th>Type</th>
<th>T (Nm)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M3 x 8</td>
<td>0.98</td>
<td>Main terminal screw for wire connector</td>
</tr>
<tr>
<td>M3 x 8</td>
<td>1.07</td>
<td>Contactor, relay coil, relay terminal</td>
</tr>
<tr>
<td>M3 x 8</td>
<td>1.30</td>
<td>Load terminal</td>
</tr>
</tbody>
</table>

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6.1 Switch setting

The product is equipped with a number of occupied stations and the baud rate can be set using the baud rate switch. The following table shows the number of occupied stations and baud rate setting for various baud rates.

<table>
<thead>
<tr>
<th>Baud Rate</th>
<th>Number of occupied stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.56 Kbps</td>
<td>16</td>
</tr>
<tr>
<td>625 Kbps</td>
<td>16</td>
</tr>
<tr>
<td>2.5 Mbps</td>
<td>16</td>
</tr>
<tr>
<td>10 Mbps</td>
<td>16</td>
</tr>
</tbody>
</table>

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6.2 Base rate (Transmission speed) setting

The following table shows the baud rate setting for various baud rates.

<table>
<thead>
<tr>
<th>Baud Rate</th>
<th>Number of occupied stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>156 Kbps</td>
<td>16</td>
</tr>
<tr>
<td>625 Kbps</td>
<td>16</td>
</tr>
<tr>
<td>2.5 Mbps</td>
<td>16</td>
</tr>
<tr>
<td>10 Mbps</td>
<td>16</td>
</tr>
</tbody>
</table>

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6.3 Number of occupied station

The following table shows the number of occupied stations for various baud rates.

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</tbody>
</table>


1. Introduction

1.1 Introduction

1.2 Incorporated items

2. Installation

2.1 Installation precautions

2.2 Installation procedure

2.3 Preparation Specifications

3. Power Supply Specification

3.1 Power specification

3.2 Performance specification

4. Buffer memory

5. Communication with PLC

6. Expansion block

6.1 Terminal configuration

6.2 Terminal layout

6.3 External dimensions and parts names
1.3 External Dimensions and Part Names

1.4 Power and status LEDs

1.5 Terminal Layout

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**Warning:**

- Maintenance and special features indicated by will cause damage or injury to the user.
- Do not store the main unit near water sources as it may cause fire, equipment failures or malfunctions.
- Always store the main unit in a dust-free environment.
- Do not store the main unit in environments with high temperature or humidity.
- Do not store the main unit in environments with corrosive gas, flammable gas, or excessive vibrations.
- Do not store the main unit in environments with magnetic fields greater than 2 G (200 mT).
- Do not store the main unit in environments with excessive dust or metal particles.
- Do not store the main unit in environments with high pressure or low pressure.
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