1. Outline

FX3G-485-BD-RJ is an expansion board equipped with an RJ45 connector for RS-485 communication. The FX3G-485-BD-RJ exchanges data with RS-485 devices. For wiring specifications, select the programming software, refer to the following manual.

FX Series User’s Manual - Data Communication Edition

1.1 Incorporated Items

- N network: Data transfer connection between two PLCs relationship specifying master/slave station.
- Parallel link: Data transfer between two PLCs relationship specifying master/slave station.
- Computer link: Data transfer between PLC and computer (as specified by the computer user) via dedicated protocol.
- Protocol communication: Serial communication between PLC and RS-485 device via non-protocol communication.
- Inverter communication*: Controlling Mitsubishi’s FREQROL inverter using inverter communication instructions.

* The FX3G Series PLC Ver. 1.10 or later in applicable.

1.2 Communication Function

<table>
<thead>
<tr>
<th>Communication type</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>N network</td>
<td>Data transfer connection between two PLCs relationship specifying master/slave station.</td>
</tr>
<tr>
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<td>Controlling Mitsubishi’s FREQROL inverter using inverter communication instructions.</td>
</tr>
</tbody>
</table>

2. Specifications

2.1 External Dimensions and Part Names

- Unit: mm (inch) |
- Connector cover is removed |
- Pin configuration of RJ45 connector is as follows:

2.2 Pin Configuration

- Pin configuration of RJ45 connector is as follows:

2.3 Communication specifications

- Transmission standard: In accordance to RS-485 A/B (±2400 bps)
- Maximum transmission distance: 60 m (164 ft) maximum
- Communication method: Half-duplex
- Communication format: Non-Protocol Communication, Computer Link (dedicated protocol), Parallel Link, N network, and inverter communication
- Baud rate: 115200 bps

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4. Installation

For installation, refer to the following manual:


4.1 Installation and maintenance precautions

- The product can be used in the environment described. For details, refer to the following manual:

4.2 Startup and Maintenance precautions

- Do not disassemble or modify the PLC.

5. Storage and transportation precautions

- The product can be used in the environment described. For details, refer to the following manual:

6. Disposal

- The product can be used in the environment described. For details, refer to the following manual:

7. Precautions

- This product can be used in the environment described. For details, refer to the following manual:

8. For safe use

- This product can be used in the environment described. For details, refer to the following manual: