Compliance with EC directive (CE Marking)
This product cannot, however, produce an inherent risk. It is essential to ensure that this product is correctly identified by the CE Marking. This product may be marked with the CE Marking only if it complies with the requirements of the EC directive.

2. Specification

2.1 Applicable PLC

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>FX3UC-FX3U-20SSC-H</td>
<td>Modbus, PLC over Ethernet, and CANopen</td>
<td>8</td>
<td>8</td>
</tr>
</tbody>
</table>

The maximum number of PLC is 8 for the FX3U-20SSC-H. Each PLC has a maximum of 8 parameters to be configured. If the parameter number exceeds 8, the PLC will not function as intended.

2.2 General Specifications

The items shown in this section are equivalent to those of the PLC unit node. For general specifications, refer to the manual of the PLC unit node.

2.3 Power Supply Specification

External power supply

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presence of power failure</td>
<td>In the event of a power failure, the positioning parameter is not saved to the PLC.</td>
</tr>
</tbody>
</table>

2.4 Performance Specification

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cycles</td>
<td>Generally, the positioning parameter is saved when the PLC is switched off.</td>
</tr>
<tr>
<td>Maximum number of cycles</td>
<td>The positioning parameter is saved when the PLC is switched off.</td>
</tr>
</tbody>
</table>

3. External Dimensions and Part Names

A drawing shows the external dimensions and part names of the positioning block. The dimensions and part names are indicated in the drawing.

4. Compliance with EC directive (CE Marking)

This product is not included in the CE Marking. It is essential to ensure that this product is correctly identified by the CE Marking. This product may be marked with the CE Marking only if it complies with the requirements of the EC directive.

5. Input/Output terminal

The following section describes the input/ output terminal of the positioning block.

6. Mode Switching

The mode switch enables the selection of the operating mode, such as the positioning mode, table operation mode, and others. The mode switch is set to the positioning mode by default.

7. Display and LED

A display is provided for the positioning parameter, such as the positioning value and error code. The LED is used to indicate the status of the positioning operation.

8. Compliance with EC directive (CE Marking)

This product is not included in the CE Marking. It is essential to ensure that this product is correctly identified by the CE Marking. This product may be marked with the CE Marking only if it complies with the requirements of the EC directive.

9. Index

This section provides an index for locating specific sections in this manual.

10. Warranty

This product is covered by a 1-year warranty. In case of defects covered by the warranty, the product will be repaired or replaced free of charge. The warranty does not cover damage caused by improper use or unauthorized modifications.

11. Compliance with EC directive (CE Marking)

This product is not included in the CE Marking. It is essential to ensure that this product is correctly identified by the CE Marking. This product may be marked with the CE Marking only if it complies with the requirements of the EC directive.
1. Introduction

FX3U-20SSC-H is dedicated to the position control system of the FX Series Programmable Controllers. FX3U-20SSC-H is available for the following PLC series: FX3U, FX2N, FX2NC, and FXY.

1.1 Major Features of the FX3U-20SSC-H

1.1.1 Controller Specifications

- PLC: FX Series (excluding FX0N and FX1N)
- Internal input point: 16 points (double side)
- Power supply: AC 100-240 V, 50/60 Hz
- AC output power supply: 100 mA / 5 V DC
- Input terminals: 16 terminals
- Input current: 100 mA / 5 V DC
- Power supply: 100 mA / 5 V DC
- Bus thickness (DIN rail: DIN46277) 0.1 mm (0.004"
- INSULATION RESISTANCE: 100 MΩ or more withstand voltage 500 V AC for one minute

1.1.2 Functionality

- Input and output switching signals compatible with those of the main unit
- Power supply with the PLC eliminates the need for an external power supply
- Control input: X-START, DOG, INT0, INT1, DOG (for Y axis), INT0 (for Y axis)
- Control output: X/Y axis
- Control output power supply

1.1.3 Compliance with EC directive (CE Marking)

- The PLC is compliant with EC directive (CE Marking) in the CE marking mode, and can be used as a programmable controller when installed in a suitable cabinet, etc.

1.2 External Dimensions and Part Names

- Dimensions: Width: 115 mm, Depth: 115 mm, Height: 37 mm
- Weight: Approx. 0.3 kg (0.66 lbs)

1.3 Pin Configuration

Refer to the following manual:

2. Specification

2.1 Applicable PLC

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Model Code</th>
<th>PLC Compatibility</th>
<th>Maximum Number of Connected Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>FX3U-20SSC-H</td>
<td>M-PLC A-SERIES-0000</td>
<td>FX Series (excluding FX0N and FX1N)</td>
<td>8 sets</td>
</tr>
</tbody>
</table>

2.2 General Specifications

- Temperature: 0 to 55°C (32 to 131°F)
- Humidity: 5 to 95%RH (without condensation)
- Power supply: AC 100-240 V, 50/60 Hz
- Power supply current: 0.2 A, 10 W, 90 V
- AC output power supply: 100 mA / 5 V DC
- Power consumption: 1.5 W
- INSULATION RESISTANCE: 100 MΩ or more
- WITHSTAND VOLTAGE: 500 V AC for one minute

2.3 Power Supply Specification

- Power supply voltage: 200 V AC ±10%
- Power supply current: 0.2 A, 10 W, 90 V
- Power consumption: 1.5 W

2.4 Performance Specification

- Response time: 0.01 ms for single pulse
- Response time: 0.01 ms for single pulse
- Response time: 0.01 ms for single pulse
- Response time: 0.01 ms for single pulse
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- Response time: 0.01 ms for single pulse
- Response time: 0.01 ms for single pulse

3. Alternative Parts and Accessories

- FX3U-20SSC-H type positioning block
- M-PLC A-SERIES-0000

4. Maintenance and Troubleshooting

- Maintenance: Regular cleaning of the product to ensure proper operation
- Troubleshooting: Check the error codes displayed by the PLC

5. Certification of UL, cUL standards

- The product has been manufactured under strict quality control. Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may arise from the use of this product.
Compliance with EC directive (CE Marking) 
This product is approved to meet the provisions of the European Union’s Low Voltage Directive (2006/95/EC) and the EMC Directive (2014/30/EU) and complies with the conformity assessment procedures as specified in these Directives. The CE mark is not valid if the product is modified after testing and approval. To apply the CE mark, a technical file should be kept by the user. For more information, see the product’s technical documentation.

Requirement for Compliance with EMC directive
This product was designed for use in industrial applications.

Type: Programmable Controller (Open Type Equipment)

1. Introduction

1.1 Major Features of the Fxux-20SSC-H

The Fxux-20SSC-H provides a high-performance servo motor controller, which can be used for B*1, MELSERVO-J3W-232 devices.

1.2 Connectable Servo Amplifiers

- Setting the servo parameters on the 20SSC-H side and writing/reading the servo amplifier
- Using the SSCNET III cable (optical communication) makes connections less susceptible to electromagnetic noise, etc. from the servo amplifier.

1.3 Pin Configuration

Check that the following product and items are included in the package:

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fxux-20SSC-H</td>
<td>Programmable Controller, 20SSC-H side</td>
</tr>
<tr>
<td>JY997D21301</td>
<td>Manual No.</td>
</tr>
</tbody>
</table>

2. Specification

2.1 Applicable PLC

- The PLCs that allow the 20SSC-H to be used are as follows:
  - Mitsubishi Electric FX Series
  - Mitsubishi Electric FX3U PLC

2.2 General Specifications

- The 20SSC-H can be used within the functional range of the "J3" completely, even with the 20SSC-H.

2.3 Power Supply Specification

- The power supply voltage is within the range of 9 to 20 VDC.

2.4 Performance Specification

- The maximum instantaneous power is limited to 20 W.

3. Transport & Storage

- The Fxux-20SSC-H should be transported and stored in its original packaging.

4. Warranty

- Mitsubishi Electric Corporation warrants that the Fxux-20SSC-H is free of defects in material and workmanship for a period of three years from the date of delivery.

5. Further information

For more information, contact your local Mitsubishi Electric distributor.

*1 The MR-J3W-200 device is not compatible with the 20SSC-H.

*2 The MR-J3W-200 device can be connected to the 20SSC-H only after the 1.4.1.1 upgrade.