



JA JAPANESE
EN ENGLISH

Powered by Anywire

FX3U-128ASL-M

INSTALLATION MANUAL



Table with Manual Number, Revision, and Date.

This manual describes the part names, dimensions, mounting, cabling and specifications of the product. Before use, read this manual and the manuals of all relevant products fully to acquire proficiency in handling and operating the product.

Effective October 2022. Specifications are subject to change without notice. © 2013 Mitsubishi Electric Corporation

Safety Precautions (Read these precautions before use.)

Warning and Caution icons with text describing safety risks.

Depending on the circumstances, procedures indicated by CAUTION may also cause severe injury. It is important to follow all precautions for personal safety.

PRECAUTIONS REGARDING WARRANTY AND SPECIFICATIONS

The FX3U-128ASL-M is jointly developed and manufactured by Mitsubishi and Anywire Corporation. Note that there are some precautions regarding warranty and specifications of this product.

Table showing repair term after discontinuation of production: 1 year for FX3U-128ASL-M, 7 years for other programmable controller products.

Table showing applicable EMC standard (EN61131-2) and UL standard (UL508) for Zone A.

Table showing applicable UL standard (UL508) for Zone A.

Associated Manuals

Table listing manuals: FX3U-128ASL-M User's Manual, JY997D52101 MODEL CODE: 09R731, Describes details of the FX3U-128ASL-M AnyWireASLINK system special adapter.

3. Wiring

For wiring details, refer to the following manuals. → Refer to the FX3U-128ASL-M User's Manual.

Warning icon with text: Make sure to cut off all phases of the power supply externally before attempting wiring work.

Caution icon with text: Connect the DC power supply wiring to the dedicated terminals described in this manual.

- Make sure to cut off all phases of the power supply externally before attempting wiring work. Failure to do so may cause electric shock or damage to the product. Connect the DC power supply wiring to the dedicated terminals described in this manual. Make sure to attach the top cover, offered as an accessory, before turning on the power or initiating operation after installation or wiring work.

3.1 AnyWireASLINK connection terminal block

Table with Model name (MSTB2,5/5-STF-5,08AU), Electric wire size (0.2 to 2.5 mm²), and Tightening torque (0.5 to 0.6 N*m).

- To tighten the terminal block, a flathead screwdriver having a tip size of 0.6x3.5 mm is required. When the AnyWireASLINK connection terminal block is removed, check that the fixing screws on both sides are completely loosened.

Table showing recommended bar terminals (Phoenix Contact Co., Ltd.) with electric wire size and recommended bar terminal model name.

Table listing manuals and descriptions: Manual name, Manual No., and Description.

How to obtain manuals. For product manuals or documents, consult with the Mitsubishi Electric dealer from whom you purchased your product.

Compliance with EC directive (CE Marking). This note does not guarantee that an entire mechanical module produced in accordance with the contents of this note will comply with the following standards.

Requirement for Compliance with EMC directive. The following products have shown compliance through direct testing (of the identified standards below) and design analysis.

Table showing compliance with standards: EN61131-2, IEC 61000-6-2, IEC 61000-6-4, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.

Caution for EC Directive. Installation in Enclosure. Programmable logic controllers are open-type devices that must be installed and used within conductive control cabinets.

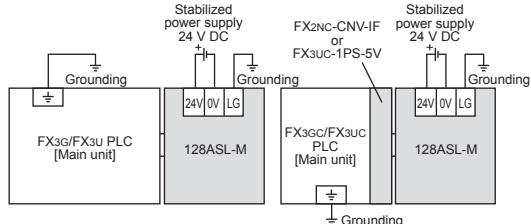
3.3 Wiring precautions

- Do not run multiple transmission cables (DP, DN) using a multicore cable.



- The voltage should not fall below the lower limit of the allowable voltage range due to voltage drop caused by the cable. Do not connect soldered cables directly to the terminals. Use stranded wires instead of single core wires.

3.4 Power supply and grounding wiring



3.4.1 Power on timing. The AnyWireASLINK system external power supply should be turned ON simultaneously with or before the power supply of the PLC main unit it is connected to.

3.4.2 Grounding. Ground the PLC as stated below. Perform class D grounding. Ground the PLC independently if possible. If it cannot be grounded independently, ground it jointly as shown below.

4. Specification

For details on specifications, refer to the following manual. → FX3U-128ASL-M User's Manual

Warning icon with text: An AnyWireASLINK system has no control function for ensuring safety.

Check the communication status information and configure an interlock circuit in the sequence program to ensure that the entire system will operate safely. Make sure to have the following safety circuits outside of the PLC to ensure safe system operation even during external power supply problems or PLC failure.

Caution icon with text: Configure safety circuits, such as an emergency stop circuit and interlock circuit, external to the AnyWireASLINK system.

Compliance with UKCA marking

The requirements for compliance with UKCA marking are the same as that with EC directive (CE marking).

1. Outline

The FX3U-128ASL-M type AnyWireASLINK system master block (hereinafter referred to as 128ASL-M) is a special function block for building an AnyWireASLINK system with FX3G/FX3GC/FX3U/FX3UC PLC.

1.1 Outline and features of AnyWireASLINK system

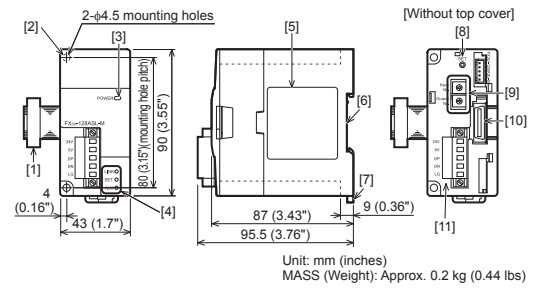
AnyWireASLINK is a high-speed and highly reliable system which relieves the work site from complicated and incorrect wiring.

1.2 Incorporated Items

Check to ensure the following product and items are included in the package:

Table listing included items: FX3U-128ASL-M (1 unit), Special unit/block No. label (1 sheet), Dust proof protection sheet (1 sheet), Manuals (1 manual each).

1.3 External Dimensions and Each Part Names



- 1) Extension cable, 2) Direct mounting hole, 3) Power LED, 4) Status LEDs, 5) Nameplate, 6) DIN rail mounting groove, 7) DIN rail mounting hook, 8) SET switch, 9) Transmission points number setting switch, 10) Extension connector.

1.4 Indications of LEDs

Table showing LED display, color, status, and description for POWER, LINK, SET, and ALM LEDs.

Disposal Precautions: CAUTION. Please contact a certified electronic waste disposal company.

Transportation and Storage Precautions: CAUTION. The product is a precision instrument.

The product is a precision instrument. During transportation, avoid impacts larger than those specified in the general specifications.

4.1 Applicable PLC

Table showing applicable PLC models and their applicability.

The version number can be checked by reading the last three digits of device D8001 or D8101.

4.2 General Specifications

Items other than the following are equivalent to those of the PLC main unit. For general specifications, refer to the User's Manual - Hardware Edition of the connected PLC.

Table with Item and Specification: Dielectric withstand voltage, Insulation resistance, Pollution degree.

4.3 Power Supply Specification

Table with Item and Specification: Driving power supply, External power supply for ASLINK communication.

4.4 Performance Specifications

Table with Item and Specification: Transmission clock, Maximum transmission distance, Transmission system, Connection type, Transmission protocol, Error control, Number of connected I/O points, RAS function, AnyWireASLINK transmission cable.

1.5 Terminal Layout

Table showing terminal names (24V, 0V, DP, DN, LG) and their descriptions.

AnyWireASLINK connection terminal block specifications. Type: MSTB2,5/5-STF-5,08AU (Phoenix Contact Co., Ltd.).

2. Installation

For installation details, refer to the following manuals. → Refer to the FX3U-128ASL-M User's Manual.

Warning icon with text: Make sure to cut off all phases of the power supply externally before attempting installation work.

Failure to do so may cause electric shock.

Caution icon with text: Use the product within the generic environment specifications described in the PLC main unit manual.

- Use the product within the generic environment specifications described in the PLC main unit manual. Never use the product in areas with excessive dust, oily smoke, conductive dusts, corrosive gas, or explosion hazards.

2.1 Connection to the PLC

The 128ASL-M connects on the right side of a PLC main unit or extension units/blocks. An FX2NC-CNV-IF or FX3UC-1PS-5V is necessary to connect the 128ASL-M with the FX3G/FX3UC PLCs.

2.2 Mounting

The product is mounted by the following method. DIN rail mounting. Direct mounting (mounting screw: M4 screw).

Table with Item and Specification: Power cable, Communication with PLC, Number of I/O occupied points, Number of connectable units to the main unit.

「电器电子产品有害物质限制使用标识要求」的表示方式

Note: This symbol mark is for China only. 含有有害6物质的名称, 含有量, 含有部品. 本产品中所含有的有害6物质的名称, 含有量, 含有部品如下表所示.

Table showing hazardous substances: 有害物质, 部件名称, 铅 (Pb), 汞 (Hg), 镉 (Cd), 六价铬 (Cr(VI)), 多溴联苯 (PBB), 多溴二苯醚 (PBDE).

本表格依据SJ/T 11364的规定编制。表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下.

基于中国标准法的参考规格: GB/T15969.2

This manual confers no industrial property rights or any rights of any other kind, nor does it confer any patent licenses. Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may occur as a result of using the contents noted in this manual.

Warranty. Exclusion of loss in opportunity and secondary loss from warranty liability. Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation to:

(1) Damages caused by any cause found not to be the responsibility of Mitsubishi. (2) Loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products.

Table with Item and Specification: 可编程控制器, 印刷基板, 外壳.