

技术简讯

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FAM-CN-0096-A

删除MELSEC-F系列用终端模块的UL认证标志显示的通知

■出版年月

2024年10月

■相关机型

MELSEC-F系列用终端模块

感谢您继续支持三菱电机MELSEC-F系列微型可编程控制器。

此次，将MELSEC-F系列用终端模块变更为不对应UL。随之将删除该产品的UL认证标志的显示，特此通知。

此外，一般规格、性能规格、功能及外形尺寸与以往产品相比并无变更。

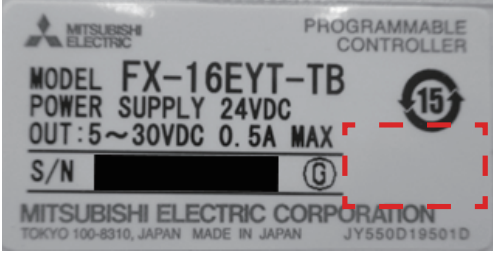
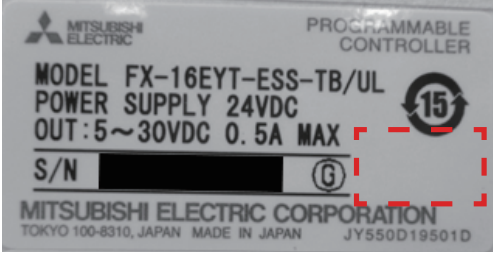
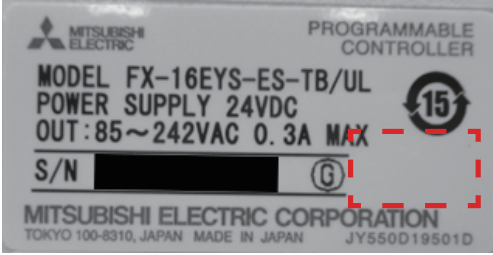
1 对象机型

品名	型号
MELSEC-F系列用终端模块	FX-16EYT-TB、FX-16EYT-ESS-TB/UL、FX-16EYS-ES-TB/UL、FX-16EX-A1-TB、FX-16EX-A1-TB/UL

2 变更内容

铭牌

如下所示，删除UL认证标志。

型号	变更前	变更后
FX-16EYT-TB		
FX-16EYT-ESS-TB/UL		
FX-16EYS-ES-TB/UL		
FX-16EX-A1-TB		
FX-16EX-A1-TB/UL		

附帶指南

删除红框部分的UL认证标志及UL相关的说明。



FX INPUT AND OUTPUT TERMINAL BLOCKS

USER'S GUIDE

JY982D50401L

This manual contains text, diagrams and explanations which will guide the reader in the correct installation and operation of the FX TERMINAL BLOCKS. It should be read and understood before attempting to install or use the unit. Further information can be found in the FX series PLC hardware manuals.

If in doubt at any stage during the installation of the FX TERMINAL BLOCKS always consult a professional electrical engineer or electrician.

All terminal blocks described in this manual conform to the ULcUL Standard.

Note's on the symbology used in this manual

At various times through out this manual certain symbols will be used to highlight points of information which are intended to ensure the users personal safety and protect the integrity of the equipment. Whenever any of the following symbols are encountered, its associated note must be read and understood. Each of the symbols used will now be listed with a brief description of its meaning.

Hardware warnings

- 1) Indicates that the identified danger WILL cause physical and property damage.
- 2) Indicates that the identified danger could POSSIBLY cause physical and property damage.

Guidelines for the safety of the user and protection of the FX TERMINAL BLOCKS

- This manual has been written to be used by trained and competent personnel. This is defined by the European directives for machinery, low voltage and EMC.
- If in doubt at any stage during the installation of the FX TERMINAL BLOCKS always consult a professional electrical engineer who is qualified and trained to the local and national standards. If in doubt about the operation or use of the FX TERMINAL BLOCKS please consult the nearest Mitsubishi Electric distributor.
- Under no circumstances will Mitsubishi Electric be liable or responsible for any consequential damage that may arise as a result of the installation or use of this equipment.
- All examples and diagrams shown in this manual are intended only as an aid to understanding the text, not to guarantee operation. Mitsubishi Electric will accept no responsibility for actual use of the product based on these illustrative examples.
- Owing to the very great variety in possible application of this equipment, you must satisfy yourself as to its suitability for your specific application.

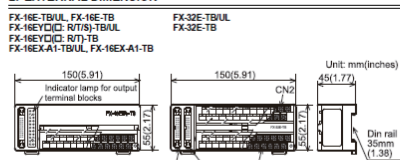
1. INTRODUCTION

Terminal blocks convert I/O terminals of connector type PLC into terminal blocks. Some terminal blocks directly extend inputs and outputs of PLC. Other terminal blocks are equipped with diversified built-in devices, and function only as inputs or only as outputs.

MODE	INPUT	OUTPUT	APPLICABLE PLC	CURRENT CONSUMPTION
FX-16E	16 pt (Direct input/output)	—	FX0C-COEMT-ESSUL FX0C-COEMT-DSS FX0C-COEMT-DSS FX0C-COEMT-EUL	—
FX-32E-TBUL	32 pt or 16/16 pt (Direct input/output)	—	—	—
FX-16EYR-ES-TBUL	—	16 pt (Relay)	—	80mA (5mA/1pt)
FX-16EYS-ES-TBUL	—	16 pt (Transistor source)	—	112mA (7mA/1pt)
FX-16EYT-ES-TBUL	—	16 pt (Transistor sink)	—	48mA (3mA/1pt)
FX-16EX-A1-TBUL	16 pt (100V AC)	—	FX0C-COEMT-EUL	48mA (3mA/1pt)

MODE	INPUT	OUTPUT	APPLICABLE PLC	CURRENT CONSUMPTION
FX-16E	16 pt (Direct input/output)	—	FX0C-COEMT-DUL FX0C-COEMT-DUL FX0C-COEMT-DUL	—
FX-32E-TB	32 pt or 16/16 pt (Direct input/output)	—	—	—
FX-16EYR-TB	—	16 pt (Relay)	FX0C-COEMT-DUL FX0C-COEMT-DUL	80mA (5mA/1pt)
FX-16EYT-TB	—	16 pt (Transistor sink)	FX0C-COEMT-DUL FX0C-COEMT-DUL	112mA (7mA/1pt)
FX-16EX-A1-TB	16 pt (100V AC)	—	FX0C-COEMT-DUL FX0C-COEMT-DUL	48mA (3mA/1pt)

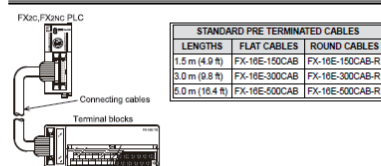
2. EXTERNAL DIMENSION



Accessories

- Input / output extension block labels
- Terminal layout cards

3. CONFIGURATION AND OPTIONS



4. CONNECTOR CABLE PIN CONFIGURATION

PLC	Pin No.	TERMINAL BLOCKS	Pin No.
XY000 (1)	XY010 (11)	XY000 (1)	XY010 (11)
XY001 (2)	XY011 (12)	XY001 (2)	XY011 (12)
XY002 (3)	XY012 (13)	XY002 (3)	XY012 (13)
XY003 (4)	XY013 (14)	XY003 (4)	XY013 (14)
XY004 (5)	XY014 (15)	XY004 (5)	XY014 (15)
XY005 (6)	XY015 (16)	XY005 (6)	XY015 (16)
XY006 (7)	XY016 (17)	XY006 (7)	XY016 (17)
XY007 (8)	XY017 (18)	XY007 (8)	XY017 (18)
COM (9)	COM (19)	COM (9)	COM (19)
(10)	(20)	(10)	(20)

The connections required between the FX0C, FX0C main unit and a terminal block are shown in the diagram below with an example for inputs X000 to X017 and outputs Y000 to Y017.

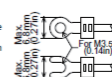
The I/O connector should be the 20-pin type and should conform to MIL C 83503 of Military Standard.

5. TERMINAL WIRING

Never perform external wiring to unused terminals. Such wiring may damage the unit.

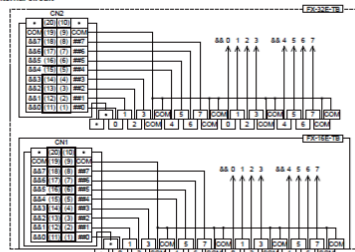
Note

- Do not lay I/O cables next to power cables or allow them to share the same trunking duct.
- Where I/O signals are used over an extended distance consideration must be made for voltage drop and noise interference.
- Use crimp-style terminals of the dimensions shown in the figure below.
- Tighten terminals at a torque of 0.5 to 0.8 N·m (4.4 to 7.1 lbf·in). Do not tighten the terminal block mounting screws with a torque outside the above-mentioned range. Failure to do so may cause equipment failures or malfunctions.



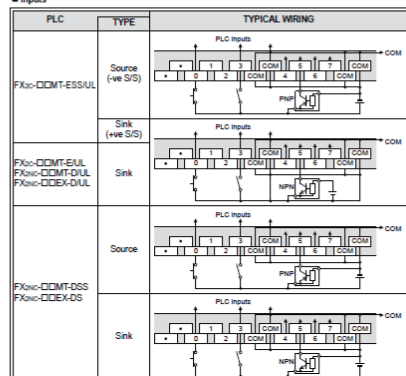
6. DIRECT INPUT BLOCKS AND DIRECT OUTPUT BLOCKS WIRING

Internal circuit



(9) and (10) of both CN1 and CN2 are short-circuited internally.

Inputs



包装箱

粘贴不对应UL认证的标签(UL NOT CERTIFIED)。

粘貼位置	变更前(例)	变更后(例)
上面		
侧面		

3 变更理由

关于相应机型中使用的电子部件，被判明UL认证中登录的使用环境温度低于一般规格的温度。

4 变更时期

2024年7月生产的产品(生产编号：247****)开始删除UL认证标志。

此外，在流通阶段变更前后的产品有可能同时存在，敬请谅解。

5 对现有产品的影响

关于已经出厂的产品(生产编号：246****及以前)，已确认安全方面没有问题。

修订记录

副编号	修订年月	修订内容
A	2024年10月	第一版

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