



## FX INPUT AND OUTPUT TERMINAL BLOCKS USER'S GUIDE

JY992D50401F

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 who is qualified and trained to the local and national standards.

All terminal blocks described in this manual conform to the UL/cUL 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

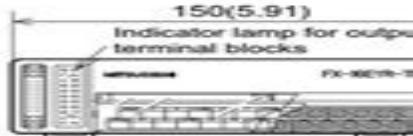
Terminal blocks convert I/O terminals of connector type PLC into terminal blocks. Some terminal blocks directly extend inputs and outputs of PLC. Other terminal blocks are equipped with diversified built-in devices, and function only as inputs or only as outputs.

MODEL	INPUT	OUTPUT	APPLICABLE PLC	CURRENT CONSUMPTION
FX-16E-TB/UL	16 pt (Direct input/output)		FX2c-DOOMT-ESS/UL FX2nc-DOOMT-DSS	
FX-32E-TB/UL	32 pt or 16/16 pt (Direct input/output)		FX2nc-DOOEX-DS FX2nc-DOOEYT-DSS	
FX-16EYR-ES-TB/UL	—	16 pt (Relay)	FX2c-DOOMT-ESS/UL	80mA (5mA/1pt)
FX-16EYS-ES-TB/UL	—	16 pt (Triac)	FX2nc-DOOMT-DSS	
FX-16EYR-ESS-TB/UL	—	16 pt (Transistor source)	FX2nc-DOOEYT-DSS	112mA (7mA/1pt)
FX-16EYR-ES-TB/UL	—	16 pt (Transistor sink)		
FX-16EX-A1-TB/UL	16 pt (100V AC)	—	FX2c-DOOMT-E/UL	48mA (3mA/1pt)

MODEL	INF
FX-16E-TB	16 pt (DI)
FX-32E-TB	32 pt or
FX-16EYR-TB	—
FX-16EYT-TB	—
FX-16EX-A1-TB	16 pt (1C)

## 2. EXTERNAL DIMENS

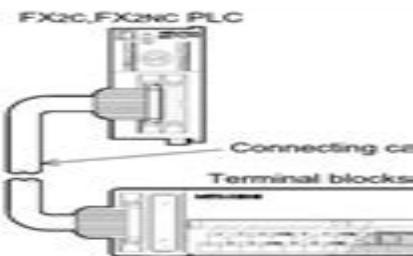
FX-16E-TB/UL, FX-16E-TB  
FX-16EYD(D: R/T/S)-TB/UL  
FX-16EYD(D: R/T)-TB  
FX-16EX-A1-TB/UL, FX-16EX-A



### Accessories

- Input / output extension
- Terminal layout cards

## 3. CONFIGURATION A



## 4. CONNECTOR CABL

PLC	( ): Pin No.
X0Y000 (1)	X0Y010 (11)
X0Y001 (2)	X0Y011 (12)
X0Y002 (3)	X0Y012 (13)
X0Y003 (4)	X0Y013 (14)
X0Y004 (5)	X0Y014 (15)
X0Y005 (6)	X0Y015 (16)
X0Y006 (7)	X0Y016 (17)
X0Y007 (8)	X0Y017 (18)
COM (9)	COM (19)
● (10)	● (20)

The connections required between the diagram below with an example for the I/O connector should be the

# Mitsubishi Fx Manual

**John W. Webb, Ronald A. Reis**

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**Design, Manufacturing and Measurement for Advanced Optics** Xin Chen, Wing Bun Lee, Qiang Liu, Chi Fai Cheung, Suet To, Su Juan Wang, 2016-02-01 Selected peer reviewed papers from the 4th Asia Pacific Conference on Optics Manufacture APCOM 2014 November 9 11 2014 Guangzhou China **Tech Fusion in Business and Society** Reem Khamis Hamdan, 2025-07-23 This book explores the frontier where technology meets business in Tech Fusion in Business and Society Harnessing Big Data IoT and Sustainability This inaugural book of Studies in Systems Decision and Control unravels the impact of AI blockchain security and more on industries and societies This book dives into a curated collection of expert insights peer reviewed for academic rigor and practical relevance It joins us in shaping a tech driven future for meaningful

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