

# CL1Y4-T1B2 CC-Link/LT Remote I/O Module

## User's Manual

Please read this manual thoroughly before starting to use the product and handle the product properly.

MODEL	CL1Y4-T1B2
MANUAL Number	JY997D04201G
Date	April 2015

### SAFETY PRECAUTIONS

(Read these precautions before using)

Please read this manual carefully and pay special attention to safety in order to handle this product properly. Also pay careful attention to safety and handle the module properly. These precautions apply only to Mitsubishi equipment. Refer to the user's manual of the CPU module to use for a description of the PLC system safety precautions.

These SAFETY PRECAUTIONS classify the safety precautions into two categories: "WARNING" and "CAUTION".

**WARNING** Procedures which may lead to a dangerous condition and cause death or serious injury if not carried out properly.

**CAUTION** Procedures which may lead to a dangerous condition and cause superficial to medium injury, or physical damage only, if not carried out properly.

Depending on circumstances, procedures indicated by CAUTION may also be linked to serious results. In any case, it is important to follow the directions for usage. Store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

### DESIGN PRECAUTIONS

#### WARNING

- Configure an interlock circuit in a sequence program so that the system operates on the safety side using the communication status information in the event the data link falls into a communication problem. Otherwise, erroneous output and malfunction may result in accidents.
- Remote input and output can not be switched ON or OFF when a problem occurs in the remote I/O modules. Therefore build an external monitoring circuit that will monitor any input signals that could cause a serious accident.

#### CAUTION

- Do not have control cables and communication cables bundled with or placed near by the main circuit and/or power cables. Wire those cables at least 100mm(3.94 inch) away from the main circuit and/or power cables. It may cause malfunction due to noise interference.
- Use the module and the flat cable dedicated to CC-Link/LT without applying any force on them. Otherwise, such cables may be broken or fail.

### INSTALLATION PRECAUTIONS

#### CAUTION

- Use the module in an environment that meets the general specifications contained in this manual. Using this module in an environment outside the range of the general specifications could result in electric shock, fire, erroneous operation, and damage to or deterioration of the product.
- Do not directly touch the module's conductive parts. Doing so could cause malfunction or trouble in the module.
- Tighten the module securely using DIN rail or installation screws within the specified torque range. If the screws are too loose, the module may drop from its installation position, short circuit, or malfunction. If the screws are too tight, the screws may be damaged, which may cause the module to drop from its installation position or short circuit.
- Install the module on a flat surface. If the mounting surface has concave and/or convex, an excessive force may be applied on the module, and nonconformity may be caused.

### WIRING PRECAUTIONS

#### WARNING

- Perform installation and wiring after disconnecting the power supply at all phases externally. If the power is not disconnected at all phases an electric shock or product damage may result.

#### CAUTION

- Terminal screws which are not to be used must be tightened always. Otherwise there will be a danger of short circuit against the bare solderless terminals.
- Perform correct wiring for the module according to the product's rated voltage and terminal arrangement. Connecting to a power supply different from rating or miss-wiring may cause fire, product failure or malfunction.
- Fix terminal screws securely within the regulated torque. Loose terminal screws may cause fire and/or malfunction. If the terminal screws are too tight, it may cause short circuit, equipment failures, or erroneous operation due to damage of the screws.
- Make sure foreign objects do not get inside the module, such as dirt and wire chips. It may cause fire, product failure or malfunction.
- Attach a warning label (hazard symbol 417-IEC-5036) concerning the electric shock to the location.

### STARTING AND MAINTENANCE PRECAUTIONS

#### WARNING

- Do not touch the terminals when the power is ON. It may cause an electric shock or malfunction.
- Perform cleaning the module or retightening of terminal screws after turning OFF the all external power supply for sure. Failure to do so may cause failure or malfunction of the modules

#### CAUTION

- Do not disassemble or modify the module. Doing so may cause failure, malfunction, injury, or fire.
- The module case is made of resin; do not drop it or subject it to strong shock. A module damage may result.
- Make sure to switch all phases of the external power supply OFF before installing or removing the module to/from the panel. Failure to do so may cause failure or malfunction of the modules.

### DISPOSAL PRECAUTIONS

#### CAUTION

- When disposing of this product, treat it as industrial waste.

### TRANSPORTATION AND MAINTENANCE PRECAUTIONS

#### CAUTION

- During transportation avoid any impact as the module is a precision instrument. Doing so could cause trouble in the module.
- If it is necessary to check the operation of module after transportation, in case of any impact damage.

### Notification of CE marking

This notification does not guarantee that an entire mechanical module produced in accordance with the contents of the notification comply with the following standards. Compliance to EMC standards of the entire mechanical module should be checked by the user / manufacturer.

### Attention

- This product is designed for use in industrial applications.

### Note

- Authorized Representative in the European Community: Mitsubishi Electric Europe B.V. Gothaer Str. 8, 40880 Ratingen, Germany

### Standards with which this product complies

Type : Programmable Controller (Open Type Equipment) Remote I/O module  
Models : Products manufactured: from November 1st, 2002 to April 30th, 2006 are compliant with EN61000-6-4 and EN61131-2:1994+A11:1996+A12:2000 after May 1st, 2006 are compliant with EN61131-2:2007

Electromagnetic Compatibility Standards (EMC)	Remark
EN61000-6-4:2001 Electromagnetic compatibility -Generic standards - Emission standard -forIndustrial environment	Compliance with all relevant aspects of the standard. (Radiated Emissions and Mains Terminal Voltage Emissions)
EN61131-2:1994/A11:1996/A12:2000 Programmable controllers -Equipment requirements and tests	Compliance with all relevant aspects of the standard. (RF Immunity, Fast transients, ESD and Damped oscillatory wave)

Electromagnetic Compatibility Standards (EMC)	Remark
EN61131-2: 2007 Programmable controllers -Equipment requirements and tests	Compliance with all relevant aspects of the standard. (Radiated Emissions, Conducted Emissions, Radiated electromagnetic field, Fast transient burst, Electrostatic discharge, High-energy surge, Voltage drops and interruptions, Conducted RF and Power frequency magnetic field)

For more details please contact the local Mitsubishi Electric sales site.

- Notes for compliance to EMC regulation. It is necessary to install the CL1 series module in a shielded metal control panel.

- Use this product in Zone A<sup>1</sup> as defined in EN61131-2.

<sup>1</sup> Zone defined in EN61131-2  
Separation defined in EN61131-2 for EMC LVD regulation decided depending on condition in industrial setting.

Zone C = Factory mains which is isolated from public mains by dedicated transformers.

Zone B = Dedicated power distribution which is protected by secondary surge protection. (300V or less in the rated voltage is assumed.)

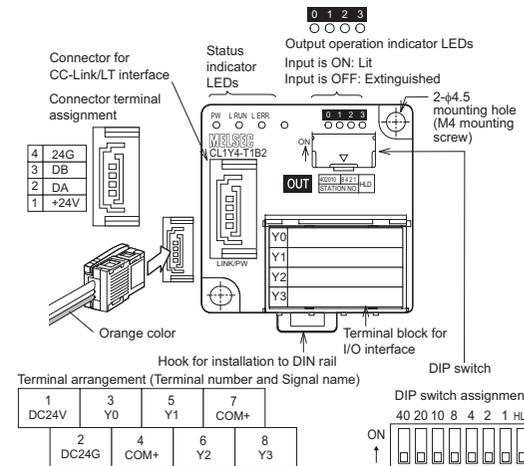
Zone A = Local power distribution which is isolated from dedicated power distribution by AC/DC converters, isolation transformers, etc. (120V or less in the rated voltage is assumed.)

### 1. Outline of Product

This product is a terminal block type output module connected to CC-Link/LT.

This product has four output points (transistor output).

### 2. Name and Setting of Each Part and Terminal Arrangement



Name	Description
PW	ON while the power is supplied.
L RUN	ON while normal operation is executed.
Status indicator LED	ON: When a communication error or DIP switch setting error occurred Flickering at a constant interval: When the setting of the DIP switch was changed while the power was supplied (even while the LED is flickering, the operation continues. The new setting becomes valid when the power is turned OFF once, then ON again.) Flickering at an intermittent interval: When a terminal resistor is not attached or when the module or a connection cable is affected by noise
	L ERR.

Name	Description																					
Output operation indicator LEDs	ON while the output is ON. Extinguished while the output is OFF. Output operation indicator																					
Interface	Connector for CC-Link/LT communication line/module power supply (24G/DB/DA/+24V)																					
Terminal block for I/O interface	Terminal block to connect output signals and load power supply																					
DIP switch	Set the 10's digit of the station No. using "STATION NO. 10", "STATION NO. 20" and "STATION NO. 40". Set the 1's digit of the station No. using "STATION NO. 1", "STATION NO. 2", "STATION NO. 4" and "STATION NO. 8". Factory default = All bits are OFF. Make sure to set the station No. in the range from 1 to 64. If any station No. outside the range from 1 to 64 is set, it is regarded as an error and the L ERR. LED lights. Example: When setting the station No. to "32", set the DIP switch as follows. <table border="1"> <tr> <td>Station No.</td> <td>10's digit</td> <td>1's digit</td> </tr> <tr> <td>40</td> <td>20</td> <td>10</td> </tr> <tr> <td>32</td> <td>OFF</td> <td>ON</td> </tr> <tr> <td></td> <td>8</td> <td>4</td> </tr> <tr> <td></td> <td>2</td> <td>1</td> </tr> <tr> <td></td> <td>OFF</td> <td>ON</td> </tr> <tr> <td></td> <td>OFF</td> <td>OFF</td> </tr> </table>	Station No.	10's digit	1's digit	40	20	10	32	OFF	ON		8	4		2	1		OFF	ON		OFF	OFF
Station No.	10's digit	1's digit																				
40	20	10																				
32	OFF	ON																				
	8	4																				
	2	1																				
	OFF	ON																				
	OFF	OFF																				
HLD	Holds the output (when an error has occurred). ON: Holds the output. OFF: Clears the output.																					

### 3. Installation

The CL1Y4-T1B2 can be installed to DIN rail or directly installed using mounting screws.

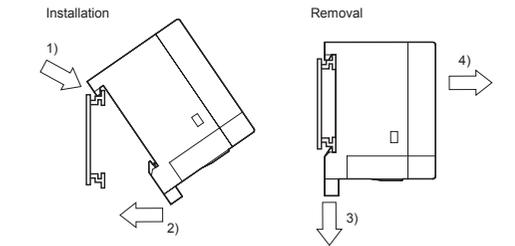
Each installation procedure is described below.

#### 3.1 Installation to DIN rail

Align the upper DIN rail installation groove in the module with the DIN rail 1), and press the module in that status 2). When removing the module, pull the hook downward for installation to DIN rail 3), then remove the module 4).

#### DIN rail mounting screw pitch

When installing the module to the DIN rail, tighten the mounting screws at the pitch of 200mm(7.87") or less.



Applicable DIN rail | TH35-7.5Fe and TH35-7.5Al

### 3.2 Direct installation

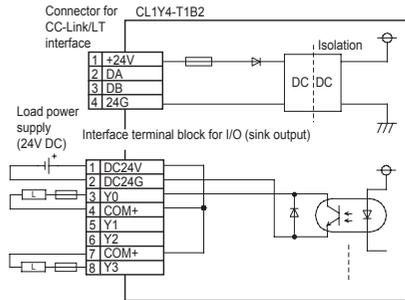
Screw-tighten the module by attaching M4 screws to the upper and lower mounting holes (two holes in all) provided in the module. Install the module so that the clearance of 1 to 2mm (0.04" to 0.08") is assured for each module.

Applicable screw	M4 × 0.7mm(0.03") × 16mm(0.63") or more (Tightening torque range: 0.78 to 1.08 N·m)
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### 4. Wiring

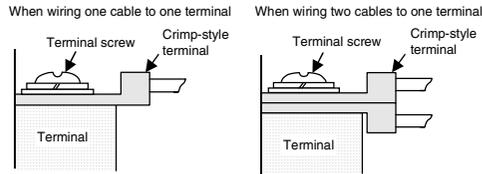
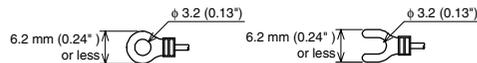
#### 4.1 External wiring

The output terminals of the CL1Y4-T1B2 are fixed to the sink output.



#### 4.2 Crimp-style terminal

For I/O wiring, use crimp-style terminals of the following dimensions.



Applicable crimp-style terminal	<ul style="list-style-type: none"> <li>• RAV1.25-3</li> <li>• V1.25-3 (manufactured by JST Mfg. Co., Ltd.)</li> <li>• 1.25-3 and TG1.25-3 (manufactured by NICHIFU Co., Ltd.)</li> </ul>
Applicable wire size	0.3 to 1.25 mm <sup>2</sup>

Use a crimp-style terminal in a status in which no force is applied on the cable.

#### 4.3 Module terminal screw

Tighten the terminal screws (M3 screws) on the terminal block with a tightening torque of 0.42 to 0.58 N·m. Do not tighten terminal screws exceeding the specified torque. Failure to do so may cause short circuit, equipment failures, or malfunctions.

## 5. Specifications

### 5.1 General specifications

Item	Specification		
<b>Ambient working temperature</b>	0 to 55°C (32 to 131°F)		
<b>Ambient storage temperature</b>	-25 to 75°C (-13 to 167°F)		
<b>Ambient operating humidity</b>	5 to 95%RH: Dew condensation shall not be considered.		
<b>Ambient storage humidity</b>	5 to 95%RH: Dew condensation shall not be considered.		
<b>Vibration resistance (*1)</b>	When intermittent vibration is present	Number of times of sweep	
	Frequency		Half amplitude
	Acceleration		Half amplitude
	10 to 57Hz	0.075mm	
57 to 150Hz	9.8m/s <sup>2</sup>	10 times in each of X, Y and Z directions (for 80 min)	
When continuous vibration is present			
Frequency	Half amplitude		
Acceleration	Half amplitude		
10 to 57Hz	0.035mm		
57 to 150Hz	4.9m/s <sup>2</sup>		
<b>Impact resistance (*1)</b>	147 m/s <sup>2</sup> , 3 times in each of X, Y and Z directions		
<b>Operating atmosphere</b>	Corrosive gas shall not be present.		
<b>Operating altitude</b>	2,000m(6561'8") or less (*2)		
<b>Installation place</b>	Inside control panel (*3)		
<b>Over-voltage category</b>	II or less (*4)		
<b>Degree of contamination</b>	2 or less (*5)		

Notes:

- \*1 The criterion is shown in IEC61131-2.
- \*2 The module cannot be used in an environment pressurized above the atmospheric pressure which can be generated around the altitude of 0 m. If the module is used in such an environment, it may fail.
- \*3 The module can be used in any environment even outside the control panel as far as the requirements of the ambient operating temperature, the ambient operating humidity, etc. are satisfied.
- \*4 This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the rated voltage of 300V is 2500V.
- \*5 This index indicates the degree of conductive generating substances in the environment in which the module is used. The degree of contamination 2 indicates that contamination is caused by generation of only non-conductive substances. In this degree, however, temporary conduction may be caused by accidental condensation.

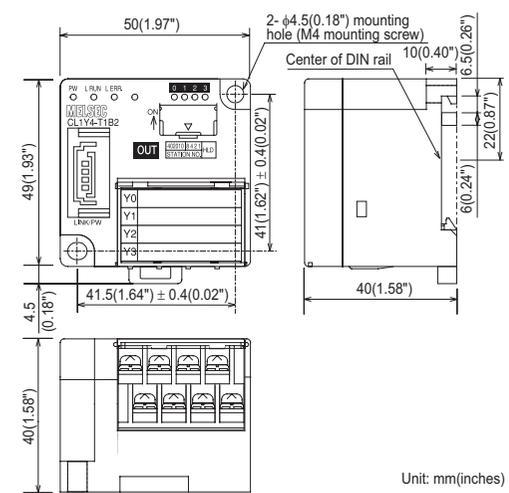
### 5.2 Output specifications

Item	Specification
<b>Output method</b>	Transistor output (Load power supply) (sink)
<b>Number of outputs</b>	4 points
<b>Isolation method</b>	Isolation with photocoupler
<b>Rated load voltage</b>	12/24V DC
<b>Operating load voltage range</b>	10.2 to 28.8 VDC (Ripple ratio: Within 5%)
<b>Max. load current</b>	0.1A/point, 0.4 A/1 common
<b>Max. inrush current</b>	0.4A/10 ms
<b>Leakage current at OFF</b>	0.1mA or less/30V DC
<b>Max. voltage drop at ON</b>	0.3V or less (typical)/0.1A 0.6V or less (max.)/0.1A
<b>Response time</b>	OFF→ON
	ON→OFF
<b>Surge suppression</b>	Zener diode
<b>Common wiring method</b>	4 points/1 common (2 points) (terminal block two-wire type)
<b>Internal protection for outputs</b>	Internal protection circuit none Please connect the fuse in the connected load outside.

### 5.3 Performance specifications

Item	Specification	
<b>Module power supply</b>	<b>Voltage</b>	20.4 to 28.8V DC (24V DC -15% to +20%) Ripple ratio: Within 5%
	<b>Current consumption</b>	60mA (when all points are ON)
	<b>Initial current</b>	70mA
	<b>Max. allowable momentary power failure period</b>	PS1:1ms
<b>Number of stations occupied</b>	4-, 8- or 16-point mode: 1 station	
<b>Noise durability</b>	500Vp-p Noise width: 1μs Cycle: 25 to 60 Hz (by noise simulator)	
<b>Withstand voltage</b>	500V AC for 1 min	
<b>Isolation resistance</b>	10 MΩ or more between primary area (external DC terminal) and secondary area (internal circuit) by 500V DC megger	
<b>Protection class</b>	IP2X	
<b>I/O part connection method</b>	Connection with terminal block	
<b>Module installation method</b>	DIN rail installation, mounted by screws of type M4 × 0.7mm(0.03") × 16mm(0.63") or larger Can be installed in six directions	
<b>Mass (weight)</b>	0.06kg (0.13lbs)	

## 6. Outside Dimensions



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.

#### Warning

Mitsubishi will not be held liable for damage caused by factors found not to be the cause of Mitsubishi; machine damage or lost profits caused by faults in the Mitsubishi products; damage, secondary damage, accident compensation caused by special factors unpredictable by Mitsubishi; damages to products other than Mitsubishi products; and to other duties.



For safe use

- This product has been manufactured as a general-purpose part for general industries, and has not been designed or manufactured to be incorporated in a device or system used in purposes related to human life.
- Before using the product for special purposes such as nuclear power, electric power, aerospace, medicine or passenger movement vehicles, consult with Mitsubishi.
- This product has been manufactured under strict quality control. However when installing the product where major accidents or losses could occur if the product fails, install appropriate backup or failsafe functions in the system.

Country/Region	Sales office/Tel	Country/Region	Sales office/Tel
USA	Mitsubishi Electric Automation Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061, USA Tel : +1-847-478-2100	South Africa	Private Bag 2016, ZA-1600 Isando, South Africa Tel : +27-11-977-0770
Brazil	MELCO-TEC Representacao Comercial e Assessoria Tecnica Ltda. Av. Paulista, 1439, cj74, Bela Vista, Sao Paulo CEP: 01311-200-SP Brazil Tel : +55-11-6146-2200	China	Mitsubishi Electric Automation (China) Ltd. No. 1386 Hengqiao Road, Mitsubishi Electric Automation Center, Changning District, Shanghai, China Tel : +86-21-2222-3030
Germany	Mitsubishi Electric Europe B.V. German Branch Gulthor Strasse 8, D-08980 Rathenow, Germany Tel : +49-2102-486-0	Taiwan	Setys Enterprise Co., Ltd. 6F, No.105, Wugong 3rd Road, Wugu District, New Taipei City 24889, Taiwan, R.O.C. Tel : +886-2-2299-2499
UK	Mitsubishi Electric Europe B.V. UK Branch Travelers Lane, Hatfield, Hertfordshire, AL10 9XB, UK Tel : +44-1707-27-6100	Korea	Mitsubishi Electric Automation Korea Co., Ltd. 3F, 148-04, Gayang-Dong, Gangseo-Gu, Seoul, 157-200, Korea Tel : +82-2-3860-9530
Italy	Mitsubishi Electric Europe B.V. Italian Branch Viale Colleoni 7-20884 Agrate Brianza (Milano), Italy Tel : +39-039-90531	Singapore	Mitsubishi Electric Asia Pte. Ltd. Industrial Division 307, Alexandra Road, Mitsubishi Electric Building, Singapore, 159943 Tel : +65-6470-2308
Spain	Mitsubishi Electric Europe B.V. Spanish Branch Carretera de Rubi 76-80, AC.420, E-08190 Sant Cugat del Valles (Barcelona), Spain Tel : +34-93-565-3131	Thailand	Mitsubishi Electric Automation (Thailand) Co., Ltd. Bang-Chan Industrial Estate No.111 Soi Senthel 54, T.Kinnayao, A.Kinnayao, Bangkok 10220 Thailand Tel : +66-2906-3238
France	Mitsubishi Electric Europe B.V. French Branch 25, Boulevard des Soufflets, F-92741 Nanterre Cedex, France Tel : +33-1-5568-5568	Indonesia	P. T. Autokendro Sumber Makmur Maara Karang Selatan, Block A/ Utara No.1 Kav. No. 11, Kawasan Industri Purgudjangan, Jakarta-Utara 14440, P.O. Box 5045, Indonesia Tel : +62-21-663-0833
Czech Republic	Mitsubishi Electric Europe B.V.-o.s Czech office Aventin Business Park, Radicka 751/1136, 158 00 Praha8, Czech Republic Tel : +420-251-551-470	India	Mitsubishi Electric India Pvt. Ltd. 2nd Floor, Tower A & B, Cyber Greens, DLF Cyber City, DLF Phase-III, Gurgaon-122002 Haryana, India Tel : +91-124-463-0300
Poland	Mitsubishi Electric Europe B.V. Polish Branch ul. Krakowska 50, 32-083 Balice, Poland Tel : +48-12-630-47-00	Australia	Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road PO BOX11, Rydalmere, N.S.W 2116, Australia Tel : +61-2-9684-7777
Russia	Mitsubishi Electric Europe B.V. Russian Branch St. Petersburg office Piskarevsky pr. 2, bld 2, lit "Sch", BC "Benar", office 720, 195027, St. Petersburg, Russia Tel : +7-812-633-3487		

## MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE : TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

When exported from Japan, this manual does not require application to the Ministry of Economy, Trade and Industry for service transaction permission.

Specifications subject to change without notice.

CL1Y4-T1B2 CC-Link/LT Remote I/O Module

Please read this manual thoroughly before starting to use the product and handle the product properly.

User's Manual

Table with 2 columns: MODEL, CL1Y4-T1B2; MANUAL Number, JY997D04201G; Date, April 2015

SAFETY PRECAUTIONS (Read these precautions before using)

These precautions apply only to Mitsubishi equipment. Refer to the user's manual of the CPU module to use for a description of the PLC system safety precautions.

- WARNING Procedures which may lead to a dangerous condition and cause death or serious injury if not carried out properly. CAUTION Procedures which may lead to a dangerous condition and cause superficial to medium injury, or physical damage only, if not carried out properly.

Depending on circumstances, procedures indicated by CAUTION may also be linked to serious results. In any case, it is important to follow the directions for usage. Store this manual in a safe place so that you can take it out and read it whenever necessary. Always forward it to the end user.

DESIGN PRECAUTIONS

- WARNING Configure an interlock circuit in a sequence program so that the system operates on the safety side using the communication status information in the event the data link fails into a communication problem. CAUTION Do not have control cables and communication cables bundled with or placed near by the main circuit and/or power cables. Use the module and the flat cable dedicated to CC-Link/LT without applying any force on them.

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- Do not have control cables and communication cables bundled with or placed near by the main circuit and/or power cables. Use the module and the flat cable dedicated to CC-Link/LT without applying any force on them.

INSTALLATION PRECAUTIONS

CAUTION

- Use the module in an environment that meets the general specifications contained in this manual. Tighten the module securely using DIN rail or installation screws within the specified torque range.

Table with 2 columns: Electromagnetic Compatibility Standards (EMC), Remark

WIRING PRECAUTIONS

- WARNING Perform installation and wiring after disconnecting the power supply at all phases externally. CAUTION Terminal screws which are not to be used must be tightened always. Perform correct wiring for the module according to the product's rated voltage and terminal arrangement.

STARTING AND MAINTENANCE PRECAUTIONS

- WARNING Do not touch the terminals when the power is ON. CAUTION Do not disassemble or modify the module. Do not touch the terminals.

CAUTION

- Do not disassemble or modify the module. Do not touch the terminals. Make sure to switch all phases of the external power supply OFF before installing or removing the module.

DISPOSAL PRECAUTIONS

CAUTION

- When disposing of this product, treat it as industrial waste.

TRANSPORTATION AND MAINTENANCE PRECAUTIONS

CAUTION

- During transportation avoid any impact as the module is a precision instrument. Do not touch the terminals.

Notification of CE marking

This notification does not guarantee that an entire mechanical module produced in accordance with the contents of the notification complies with the following standards.

- Attention This product is designed for use in industrial applications. Note Authorized Representative in the European Community: Mitsubishi Electric Europe B.V.

Standards with which this product complies Type : Programmable Controller (Open Type Equipment) Remote I/O module Models : Products manufactured:

Table with 2 columns: Electromagnetic Compatibility Standards (EMC), Remark

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For more details please contact the local Mitsubishi Electric sales site. Notes for compliance to EMC regulation.

- Use this product in Zone A defined in EN61131-2. Zone C = Factory mains which is isolated from public mains by dedicated transformers.

Outline of Product

This product is a terminal block type output module connected to CC-Link/LT. This product has four output points (transistor output).

Name and Setting of Each Part and Terminal Arrangement

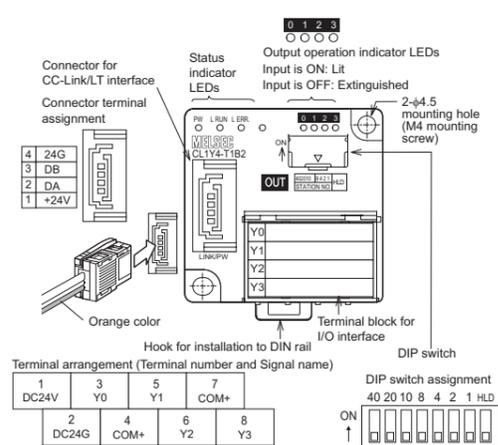


Table with 2 columns: Name, Description

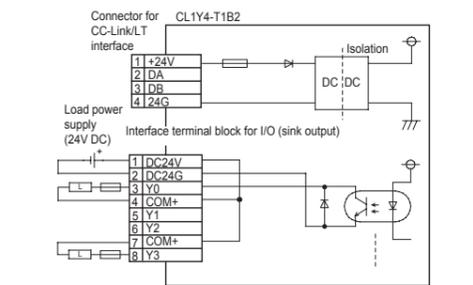
3.2 Direct installation

Screw-tighten the module by attaching M4 screws to the upper and lower mounting holes (two holes in all) provided in the module.

Table with 2 columns: Applicable screw, M4 x 0.7mm(0.03") x 16mm(0.63") or more

4. Wiring

The output terminals of the CL1Y4-T1B2 are fixed to the sink output.



4.2 Crimp-style terminal

For I/O wiring, use crimp-style terminals of the following dimensions.

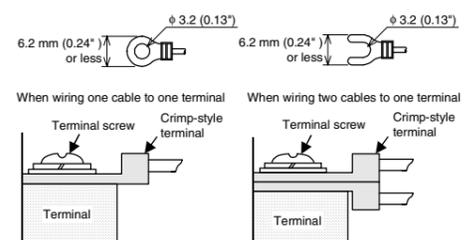


Table with 2 columns: Applicable crimp-style terminal, Applicable wire size

4.3 Module terminal screw

Tighten the terminal screws (M3 screws) on the terminal block with a tightening torque of 0.42 to 0.58 N-m.

5. Specifications

5.1 General specifications

Table with 2 columns: Item, Specification

Notes: 1 The criterion is shown in IEC61131-2.

- 2 The module cannot be used in an environment pressurized above the atmospheric pressure which can be generated around the altitude of 0 m. 3 The module can be used in any environment even outside the control panel as far as the requirements of the ambient operating temperature, humidity, etc. are satisfied.

5.2 Output specifications

Table with 2 columns: Item, Specification

5.3 Performance specifications

Table with 2 columns: Item, Specification

Table with 2 columns: Name, Description

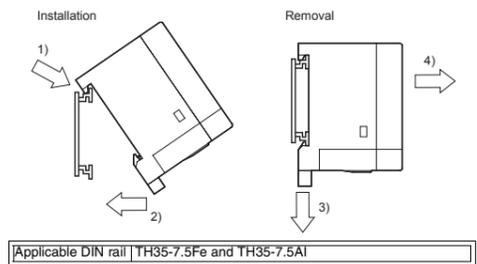
3. Installation

The CL1Y4-T1B2 can be installed to DIN rail or directly installed using mounting screws.

3.1 Installation to DIN rail

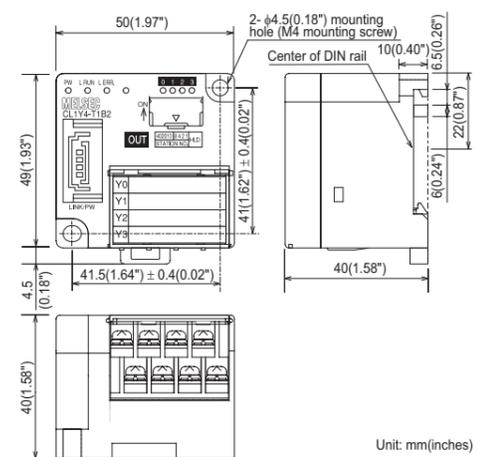
Align the upper DIN rail installation groove in the module with the DIN rail 1), and press the module in that status 2).

When removing the module, pull the hook downward for installation to DIN rail 3), then remove the module 4).



Applicable DIN rail TH35-7.5Fe and TH35-7.5Al

6. Outside Dimensions



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MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

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