

CI 1Y4-R1R2 CC-Link/LT Remote I/O Module

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

User's Manual

MODEL CL1Y4-R1B2 CC-Link/LT MANI IAI Number IV997D04301E September 2008 Data

OSAFETY PRECAUTIONSO

(Read these precautions before using) Please read this manual carefully and pay special attention to safely in order to handle this product properly. Also pay careful attention to safely and handle the module properly

These precautions apply only to Mitsubishi equipment. Befer 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: "DANGER" and "CAUTION".

Procedures which may lead to a dangerous condition and cause death or serious injury if not carried out DANGER nronerly

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

Depending on circumstances, procedures indicated by 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.

IDESIGN PRECAUTIONS1

handle the product properly

DANGER

 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.

Bemote 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.

ACAUTION

• 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]

ACAUTION

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 lose, 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

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.

A 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 torminale

Do not perform wiring to an idle terminal "NC" outside the product. The product may be damaged by such external wiring.

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 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 ISTARTING AND MAINTENANCE PRECAUTIONS

DANGER

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

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

TRANSPORTATION AND MAINTENANCE PRECAUTIONS

During transportation avoid any impact as the module is a precision

instrument. Doing so could cause trouble in the module. If 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. Compliance to LVD standards of the entire mechanical module should be checked by the user / manufacturer

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 EN61131-2:2003

Electromagnetic Compatibility Standards (EMC)	Remark
EN61000-6-4:2001 Electromagnetic compatibility -Generic standards - Emission standard for Industrial 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)
EN61131-2: 2003 Programmable controllers -Equipment requirements and tests	Compliance with all relevant aspects of the standard. (Radiated Emissions, Mains Terminal Voltage Emissions, RF immunity, Fast Transients, ESD, Surge, Voltage drops and interruptions, Conducted and Powel magnetic fields)

Low Voltage Standards (LVD)	Remark		
EN61131-2:1994/A11:1996 /A12:2000 :2003 Programmable controllers -Equipment requirements and tests	The equipment has been assessed as a component for fitting in a suitable enclosure which meets the requirements of EN61131-2:1994 +		
For more details please contact the local Mit Notes For compliance to EMC LVD regulat It is necessary to install the CL1 series modu	ion.		
1. Outline of Product			
This product is a terminal block type output module connected to CC-Link/LT. This product has four output points (relay output).			
2. Name and Setting of Each Par	t and Terminal Arrangement		
DIP switch DIP switch assignment 402010 8 4 2 1 HLD ON GRADING Status in F			
Connector for CC-Link/LT interface			
4 24G 3 D8 2 DA 1 +24V			
2-64.5 mounting hole (M4 mounting screw) Terminal arrangement (Tr 1 NC NC 5 Y			
Orange color 2 4 6 NC NC NC	8 10 12 14 16 COM2 COM2 COM2 COM2 COM2		

Name	Description			
	PW ON while the power is supplied.			
	L RUN	ON while normal operation is executed.		
Status indicator LED	L ERR.	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 a intermittent interval: When a terminal resistor is not attached or when the module or a connection cable is affected by noise		
Output operation indicator LEDs		e the output is ON. shed while the output is Ottput operation indicate		
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. 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.			
	1	ation 10's digit 1's digit No. 40 20 10 8 4 2 1 32 OFF ON ON OFF OFF ON OFF		
	HLD	Holds the output (when an error has occurred). ON: Holds the output. OFF: Clears the output.		

3. Installation

-

The CL1Y4-R1B2 can be installed to DIN rail or directly installed using mounting screws.

Each installation procedure is described below

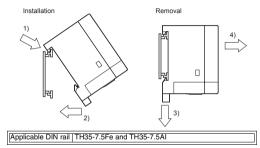
3.1 Installation to DIN rail

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 book 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





3.2 Direct installation

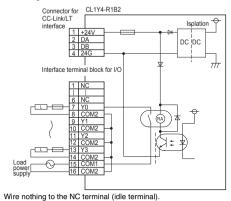
Screw-tighten the module by attaching M4 screws to the upper and lower mounting holes (two holes in all) provided in the module. Install the module so that the clearance of 1 to 2mm (0.04" to 0.08") is

assured for each module.			
Appliachle corour	M4 × 0.7mm(0.03") × 16mm(0.63") or more		
Applicable screw	(Tightening torque range: 78 to 108 N·cm)		

4. Wiring

4.1 External wiring

The output terminals of the CL1Y4-B1B2 can be used with the AC or DC . Ioad voltage

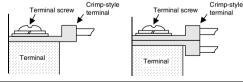


4.2 Crimp-style terminal

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

\$ 3.2 (0.1	3")	¢ 3.2 (0.13")
6.2 mm (0.24")	6.2 mm (0.24") or less	<u>S</u> IP

When wiring one cable to one terminal When wiring two cables to one terminal



	• RAV1.25-3
Applicable crimp-	 V1.25-3 (manufactured by JST Mfg. Co., Ltd.)
style terminal	 1.25-3 and TG1.25-3
	(manufactured by NICHIFU Co., Ltd.)
Applicable wire size	0.3 to 1.25 mm2

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 torgue of 42 to 58 N·cm.

5. Specifications

5.1 General specifications

Item	Specification			
Ambient working temperature	0 to 55°C (32 to 131°F)			
Ambient storage temperature	-25 to 75°C	(-13 to 167°F)	
Ambient operating humidity	5 to 95%RH: Dew condensation shall not be considered.			
Ambient storage humidity	5 to 95%RH	: Dew conder	nsation shall no	ot be considered.
	When interm	nittent vibratio	on is present	Number of times of sweep
	Frequency	Acceleration	Half amplitude	
	10 to 57Hz	-	0.075mm	
Vibration resistance	57 to 150Hz	9.8m/s ²	-	10 times in each of
resistance	When continuous vibration is present			X, Y and Z directions
	Frequency	Acceleration	Half amplitude	(for 80 min)
	10 to 57Hz	-	0.035mm	
	57 to 150Hz	4.9m/s ²	-	
Impact resistance	147 m/s ² , 3 times in each of X, Y and Z directions			
Operating atmosphere	Corrosive gas shall not be present.			
Operating altitude	2,000m(6561'8") or less (*1)			
Installation place	Inside control panel (*2)			
Over-voltage category	II or less (*3)			
Degree of contamination	2 or less (*4)			
Notes:				

- *1 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.
- *2 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.
- *3 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.
- *4 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

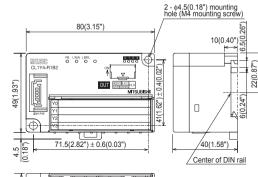
5.2 Output specifications

Item		Specification	
Output method		Relay output	
Number of outp	ut points	4	
Insulation methe	od	Mechanical insulation	
Rated load volta	ige	250V AC/30V DC or less	
Max. load current		2A/point 4 A/1 common	
OFF→ON		Approx. 10ms or less	
Response time	ON→OFF	Approx. 10ms or less	
Common wiring method		4 points/1 common (5 points) (terminal block two-wire type)	
Internal protection for outputs		Internal protection circuit none Please connect the fuse in the connected load outside.	

5.3 Performance specifications

	ltem	Specification		
	Voltage	20.4 to 28.8V DC (24V DC -15% to +20%)		
	-	Ripple ratio: Within 5%		
Module power	Current consumption	65mA (when all points are ON)		
supply	Initial current	70mA		
oupp.y	Max. allowable momentary power failure period	PS1:1ms		
Number occupie	of stations d	4-, 8- or 16-point mode: 1 station		
Noise durability Withstand voltage		DC type: 500 Vp-p AC type: 1,000 Vp-p Noise width: 1 µs Cycle: 25 to 60 Hz (by noise simulator)		
		AC type: 1,500V AC for 1 min DC type: 500V AC for 1 min		
Isolation resistance		10 M Ω or more between primary area (external DC terminal) and secondary area (internal circuit) by 500V DC megger		
Protecti	on class	IP1X		
I/O part	connection method	Connection with terminal block		
Module installation method Mass (weight)		DIN rail installation, mounted by screws of type $M4 \times 0.7mm(0.03") \times 16mm(0.63")$ or larger Can be installed in six directions		
		0.11kg (0.22lbs)		
Contact life		200V AC - 1.5 A, 240V AC - 1 A (COSφ = 0.7): 100,000 times or more		
		200V AC - 1 A, 240V AC - 0.1 A (COSφ = 0.35): 100,000 times or more		
		24V DC - 1 A, 100V DC - 0.1 A (L/R = 7 ms): 100.000 times or more		

6. Outside Dimensions





This manual confers no industrial property rights or any rights of any other kind, no does it confer any patent licenses. Mitsubishi Electric Corporation cannot be held responsible for any problems involving industrial property rights which may occur a a result of using the contents noted in this manual

Warranty

Unit: mm(inches)

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.

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U.S.A.	Mitsubishi Electric Automation, Inc. 500 Corporate Woods Parkway, Vernon Hills, IL 60061 U.S.A. Tel : +1-847-478-2100	Hong Kong	Mitsubishi Electric Automation (Hong Kong) Ltd. 10th Floor., Manulife Tower, 169 Electric Road, North Point, HongKong	
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	25, Boulevard des Bouvets, F-92741 Nanterre Cedex, France Tel: +33-1-55685568	India	Messung Systems Pvt. Ltd. Sapphire House EL-3 J-Block MIDC Bhosari Pune 411026, India	
Russia	Mitsubishi Electric Europe B.V. Moscow Representative Office 52, bld. 5, Kosímodamianskaya nab,	Australia	Tel : +91-20-27102000 Mitsubishi Electric Australia Pty. Ltd. 348 Victoria Road, Rydalmere, N.S.W	
	RU-115054, Moscow, Russia Tel: +7-495-721-2070		2116, Australia Tel : +61-2-9684-7777	
		South Africa	Circuit Breaker Industries Ltd. Private Bag 2016, ZA-1600 Isando, South Africa	
			Tel : +27-11-9282000	

MITSUBISHI ELECTRIC CORPORATION

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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

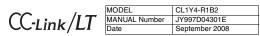


CL1Y4-R1B2

CC-Link/LT Remote I/O Module

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User's Manual



•SAFETY PRECAUTIONS•

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

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DANGER 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.

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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. 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. Ctherwise, such cables may be broken or fail.

[INSTALLATION PRECAUTIONS]

[DESIGN PRECAUTIONS]

∆CAUTION

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industrial crivitorinterit	forminar voltage Emissions)
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Low Voltage Standards (LVD) Remark The equipment has been assessed as a component for fitting in a suitable enclosure which meets the requirements of EN61131-2:1994 + A11:1996 + A12:2000, :2003 EN61131-2:1994/A11:1996 /A12:2000 :2003 rogrammable controllers -Equipment requirements and tests For more details please contact the local Mitsubishi Electric sales site. - Notes For compliance to EMC LVD regulation. It is necessary to install the CL1 series module in a shielded metal control panel. 1. Outline of Product This product is a terminal block type output module connected to CC-Link/LT. This product has four output points (relay output). 2.

Name and Se	etting	of Ead	ch P	art a	nd	Tern	ninal	Arra	ngem	ent
DIP switch DIP switch assist 40 20 10 8 4 2 ON	~	1				\ ·	O C operat		cator LE	Ds
				s indic	ator		tput is C		tinguisł	red
Connector for CC-Link/LT interface	MELSI CL1Y4	C I-R1B2	PW O	LRUN LE O () ON	Ö	800	\oplus	
Connector terminal assignment		1				个 OUT	402010[8.4.3 STATION N			
4 24G 3 DB 2 DA 1 +24V		Y0 Y1 Y2 Y3								
	2-04.5 m (M4 mou	ounting nting so	crew)		ook f	or insta	llation t	o DIN r		
	Terminal 1 NC	3	5 NC	7 Y0	inal g Y) 1	r and S 1 1 2 Y	3 1	ame) 5 M1	
Orange color	2 NC	4 NC	e N		8 0M2	10 COM2	12 COM2	14 COM2	16 COM2	

Name		Description				
	PW	ON while the power is supplied.				
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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)					
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DIP switch	Set the 10's digit of the station No. using "STATION NO 10", "STATION NO. 20" and "STATION NO. 40". Set the digit of the station No. using "STATION NO. 1", "STATIO 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 If any station No. outside the range from 1 to 64 is set, regarded as an error and the L ERR. LED lights. Example: When setting the station No. to "32", set the DIP switch as follows. [Station 10% digit 1's digit					
		lo. 40 20 10 8 4 2 1 32 OFF ON ON OFF OFF ON OFF				
Holds the output (when an error has occur ON: Holds the output. OFF: Clears the output.						

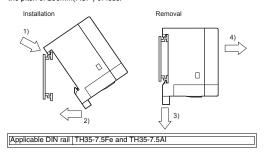
3. Installation

The CL1Y4-R1B2 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.



3.2 Direct installation

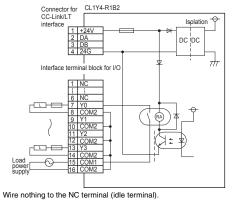
Screw-tighten the module by attaching M4 screws to the upper and lower mounting holes (two holes in all) provided in the module. Install the module so that the clearance of 1 to 2mm (0.04" to 0.08") is occurred for each module.

assured for each module.				
	$M4 \times 0.7mm(0.03") \times 16mm(0.63")$ or more (Tightening torque range: 78 to 108 N·cm)			

4. Wiring

4.1 External wiring

The output terminals of the CL1Y4-R1B2 can be used with the AC or DC load voltage



4.2 Crimp-style terminal

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

¢ 3.2 (0.13") 6.2 mm (0.24") 6.2 mm (0.24") or less

Notes

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5. Specifications

Item		Specification			
Ambient working temperature	0 to 55°C (32 to 131°F)				
Ambient storage temperature	-25 to 75°C	(-13 to 167°F)		
Ambient operating humidity	5 to 95%RH	: Dew conder	nsation shall no	ot be considered.	
Ambient storage humidity	5 to 95%RH	: Dew conder	nsation shall no	ot be considered.	
	When intern	nittent vibratio	on is present	Number of times of sweep	
	Frequency	Acceleration	Half amplitude		
	10 to 57Hz	-	0.075mm	-	
Vibration	57 to 150Hz	9.8m/s ²	-	10 times in each of	
resistance	When continuous vibration is present X, Y and Z direction				
	Frequency	Acceleration	Half amplitude	(for 80 min)	
	10 to 57Hz	-	0.035mm		
	57 to 150Hz	4.9m/s ²	-		
Impact resistance	147 m/s², 3	times in each	of X, Y and Z	directions	
Operating atmosphere	Corrosive ga	as shall not b	e present.		
Operating altitude	2,000m(6561'8") or less (*1)				
Installation place	Inside control panel (*2)				
Over-voltage category	II or less (*3)				
Degree of contamination	2 or less (*4)			

	ltem	Specification		
	Voltage	20.4 to 28.8V DC (24V DC -15% to +20%) Ripple ratio: Within 5%		
Module power	Current consumption	65mA (when all points are ON)		
supply	Initial current	70mA		
ouppij .	Max. allowable momentary power failure period	PS1:1ms		
Number occupie	of stations d	4-, 8- or 16-point mode: 1 station		
Noise durability		DC type: 500 Vp-p AC type: 1,000 Vp-p Noise width: 1 μs Cycle: 25 to 60 Hz (by noise simulator)		
Withstand voltage		AC type: 1,500V AC for 1 min DC type: 500V AC for 1 min		
Isolation resistance		10 MΩ or more between primary area (external DC terminal) and secondary area (internal circuit by 500V DC megger		
Protecti	on class	IP1X		
I/O part	connection method	Connection with terminal block		
Module installation method		DIN rail installation, mounted by screws of type $M4 \times 0.7mm(0.03^{*}) \times 16mm(0.63^{*})$ or larger Can be installed in six directions		
Mass (weight)		0.11kg (0.22lbs)		
Contact life		200V AC - 1.5 A, 240V AC - 1 A $(COS_{\varphi} = 0.7)$: 100,000 times or more 200V AC - 1 A, 240V AC - 0.1 A $(COS_{\varphi} = 0.35)$: 100,000 times or more		
		24V DC - 1 A, 100V DC - 0.1 A (L/R = 7 ms): 100,000 times or more		

6. Outside Dimensions

2 - \phi4.5(0.18") mounting hole (M4 mounting screw)

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Warranty 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

For safe use

Country U.S.A.

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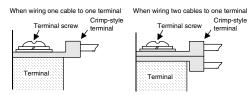
U.K.

Italy

Δ	5(0	18")	moi	Intin	a .	

Unit: mm(inches)

-Gen (Radiated Emissions and



	• RAV1.25-3
	 V1.25-3 (manufactured by JST Mfg. Co., Ltd.)
style terminal	 1.25-3 and TG1.25-3
	(manufactured by NICHIFU Co., Ltd.)
Applicable wire cize	0.0 to 1.05 mm ²

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 42 to 58 N cm.

module is used in such an environment, it may fail.

*2 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.

*1 The module cannot be used in an environment pressurized above the

pheric pressure which can be generated around the altitude of 0 m. If the

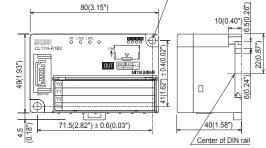
*3 This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the rated voltage of 300V is 2500V.

*4 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		
Output method		Relay output		
Number of outp	ut points	4		
Insulation methe	od	Mechanical insulation		
Rated load voltage		250V AC/30V DC or less		
Max. load current		2A/point 4 A/1 common		
Response time OFF→ON		Approx. 10ms or less		
nesponse unie	ON→OFF	Approx. 10ms or less		
Common wiring method		4 points/1 common (5 points) (terminal block two-wire type)		
Internal protection for outputs		Internal protection circuit none Please connect the fuse in the connected load outside.		



40(1.58")	
40(

- This product has been manufactured as a general-purpose part for genera Inis 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 there major accidents or losses could occur if the product
- fails, install appropriate backup or fails afe functions in the system.

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