

Side B JAPANESE

ENGLISH

CL1Y4-T1C2

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

Side A

Side B

MODEL CL1Y4-T1C2 MANUAL Number JY997D10701G CC-Link/LT Date April 2015

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. 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".

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

· 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.

Do not have control cables and connection 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 connection cable without applying any force on

Otherwise, such cables may be broken or fail.

INSTALLATION PRECAUTIONS1

 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

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

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. 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 PRECAUTIONS1

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

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 the impact which exceeds a regulated value as the module is a precision instrument. Doing so could cause trouble in the module

It is necessary to check the operation of module after transportation, in case of any impact damage. Otherwise, causes the damage of the machine and the accident.

Note Concerning the CE Marking

This note 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 February 1st, 2004 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 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: 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^{*1} as defined in EN61131-2.
- *1 Zone defined in EN61131-2

Separation defined in EN61131-2 for EMC LVD regulation decided depending on condition in industrial setting.

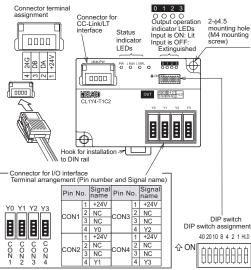
- Zone C = Factory mains which is isolated from public mains by dedicated transformers
- Zone B = Dedicated power distribution which is protected by secondary surge protection. (300V or less in the rated voltage is assumed.)
- Zone A = Local power distribution which is isolated from dedicated power distribution by AC/DC converters, isolation transformers, etc. (120V or less in the rated voltage is assumed.)

1. Outline of Product

This product is an open sensor connector type output module connected to CC-Link/LT

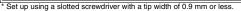
This product has four output points (transistor output).

2. Name and Setting of Each Part and Terminal Arrangement



Name		Description					
Status indicator	PW	ON while the power is supplied.					
LED	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		the output is ON. shed while the output is Ottout operation indicator					
Interface		ector for CC-Link/LT communication line/module powe ly (24G/DB/DA/+24V)					

Name		Description								
Connector for I/O nterface	sensor connector for connecting output signals The plug for the connector is an optional. The size of the acceptable electric wire is different according to the plug for the connector used.									
)IP switch *	Set the 10", "ST digit of th NO. 2", ' Factory Make su If any sta regarded Exa	ATION I he static 'STATIC default ire to se ation No d as an mple: W	NO. 20 on No ON NC = All b et the s o. outs error	0" and . usin). 4" a bits ar statio side th and th etting t	d "STA g "ST nd "S e OFI n No. ne ran ne L E he sta	ATION ATION TATIO F. in the ige fro ERR. I tion No	NO. NO. NN NO rang m 1 t _ED li	40". S 1", "S D. 8". e fron o 64 i ghts.	Set the STATIC n 1 to s set,	e 1's DN 64.
	Γ	Station	ation 10's digit			1's digit				
		No.	40	20	10	8	4	2	1	
	L	32	OFF	ON	ON	OFF	OFF	ON	OFF	
	Holds the output (when an error has occurred HLD ON : Holds the output. OFF : Clears the output.						currec	I).		



3. Installation

The CL1Y4-T1C2 can be installed to DIN rail or directly installed using mounting screws.

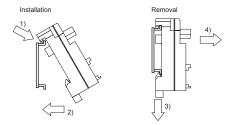
Each installation procedure is described below

3.1 Installation to DIN rail

When installing the module, align the upper DIN rail installation groove on the module with the DIN rail 1), and press the module on to the DIN rail 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.



TH35-7.5Fe and TH35-7.5AI Applicable DIN rail Width:35mm

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)

4. Wiring

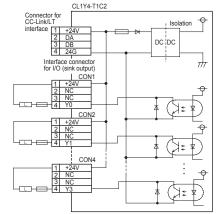
4.1 Connecting and wiring of connector for I/O interface

Wire the connector for I/O interface (e-CON) according to the following procedure:

- 1) Verify that the plug cover is installed in the plug unit.
- Caution: Do not push the plug cover into the plug unit before the cable is inserted.
- Once a plug is pressure-displaced, it can no longer be reused. 2) Insert the cable until it makes contact with the plug unit.
- When inserting the cable, confirm that it has been inserted completely.
 If the cable is not inserted completely, it may cause contact failures.
- If the cross section of the cable is not round, the cable cannot be inserted smoothly. Cut the cable tip using pliers, etc., and make is as round as possible, then insert it.
- When inserting the cable, the cable may stick out from the front of the cover. In such a case, pull the cable backward so that the tip of the cable stays within the plug cover.
- 3) Using a pliers or special tool, push the plug cover into the plug unit, and pressure-displace it. After performing pressure displacement, verify that the plug cover is securely attached to the plug unit, as shown in the figure at right.
- While performing pressure displacement, the plug cover may rise because it is not latched against the plug unit correctly. This condition indicates that pressure displacement is incomplete. Push the plug cover until it is securely installed in the plug unit.

4.2 External wiring

The output terminals of the CL1Y4-T1C2 are fixed to the sink output.



5. 5	Specifications
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5.1 General specifications

Item	Specification									
Ambient working temperature	0 to 55°C (3	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	5 to 95%RH: Dew condensation shall not be considered.								
Ambient storage humidity	5 to 95%RH	5 to 95%RH: Dew condensation shall not be considered.								
	When interm	nittent vibratio	n is present	Number of times of sweep						
	Frequency	Acceleration	Half amplitude							
	10 to 57Hz	-	0.075mm	1						
Vibration resistance (*1)	57 to 150Hz			10 times in each of						
resistance (* 1)	When contin	uous vibratior	X, Y and Z direction							
	Frequency	Frequency Acceleration Half amplitud		(for 80 min)						
	10 to 57Hz	-	0.035mm	1						
	57 to 150Hz	4.9m/s ²	-	1						
Impact resistance (*1)	147 m/s², 3	times in each	of X, Y and Z c	lirections						
Operating atmosphere	Corrosive ga	as shall not be	present.							
Operating altitude	2,000m(6561'8") or less (*2)									
Installation place	Inside contro	ol panel (*3)								
Over-voltage category	II or less (*4)								
Degree of contamination	2 or less (*5))								

*1 The criterion is shown in IEC61131-2.

Notes

- *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.

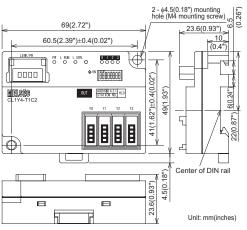
5.2 Output specifications

lte	em	Specification					
		Transistor output (Power supply supplied from CC-Link/LT interface) (sink)					
Number of ou	tputs	4 points					
Isolation met	hod	Isolation with photocoupler					
Rated load vo	ltage	24V DC					
Operating loa range	d voltage	20.4 to 28.8V DC (Ripple ratio: Within 5%)					
Max. load cur	rent	0.1A/point, 0.4 A/1 common					
Max. inrush c	urrent	0.4A/10 ms					
Leakage curre	ent at OFF	0.1mA or less					
Max. voltage	drop at ON	0.3V or less (typical)/0.1A 0.6V or less (max.)/0.1A					
Response	OFF→ON	1.0ms or less					
time	ON→OFF	1.0ms or less					
Surge suppre	ssion	Zener diode					
Common wiring method		4 points/1 common (sensor connector 2-wire type)					
Internal prote outputs	ction for	Internal protection circuit none Please connect the fuse in the connected load outside.					

5.3 Performance specifications

	ltem	Specification					
		20.4 to 28.8V DC (24V DC -15% to +20%) Ripple ratio: Within 5%					
	Current	60mA (when all points are ON)					
Module power	consumption	Not including external load current					
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 Withstand voltage Isolation resistance Protection class		500Vp-p Noise width: 1µs Cycle: 25 to 60 Hz (by noise simulator) 500V AC for 1 min between primary area (extern DC terminal) and secondary area (internal circu 10 MΩ or more between primary area (external DC terminal) and secondary area (internal circu by 500V DC megger					
							IP2X
							I/O part
		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 (w	eight)	0.04 kg (0.09 lbs)					

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.

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 products; and to other dutes.

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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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 Ecor Trade and Industry for service transaction permission.	тоту
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Side B A JAPANESE B ENGLISH

CL1Y4-T1C2

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

CL1Y4-T1C2 MODEL CC-Link/LT MANUAL Number JY997D10701G Date April 2015

•SAFETY PRECAUTIONS●

(Read these precautions before using)

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Do not have control cables and connection 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 connection cable without applying any force on

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CAUTION

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 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]

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[DISPOSAL PRECAUTIONS]

When disposing of this product, treat it as industrial waster [TRANSPORTATION AND MAINTENANCE PRECAUTIONS]

During transportation avoid the impact which exceeds a regulated value as the module is a precision instrument. Doing so could cause trouble in the module.

It is necessary to check the operation of module after transportation, in case

of any impact damage. Otherwise, causes the damage of the machine and the accident.

●Note Concerning the CE Marking● This note 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

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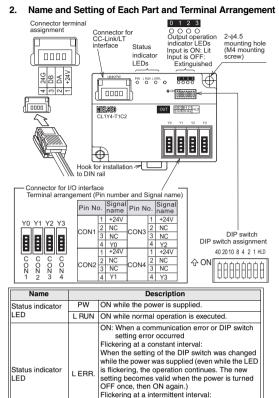
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- Zone C = Factory mains which is isolated from public mains by dedicated transformers. Zone B = Dedicated power distribution which is protected by secondary
- surge protection. (300V or less in the rated voltage is assumed.) Zone A = Local power distribution 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 an open sensor connector type output module connected to CC-Link/LT

This product has four output points (transistor output).



noise ON while the output is ON

supply (24G/DB/DA/+24V)

OFE

Extinguished while the output is

When a terminal resistor is not attached or wher the module or a connection cable is affected by

Connector for CC-Link/LT communication line/module powe

0 1 2 3

Output operation indicato

Name	Description									
Connector for I/O interface	The plu The siz	sensor connector for connecting output signals The plug for the connector is an optional. The size of the acceptable electric wire is different according to the plug for the connector used.								
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 0. 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.									
		Station No.	40	0's dig	jit 10	8	1's (digit 2		
		32	40 OFF	20 ON	ON	8 OFF		2 ON	OFF	
	HLD	Holds ON :					rror ha	as oc	curred	I).

OFF : Clears the output r with a tip width of 0.9 mm or les * Set up using a sl

3. Installation

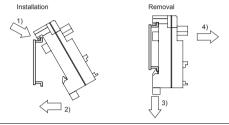
The CL1Y4-T1C2 can be installed to DIN rail or directly installed using mounting screws. Each installation procedure is described below.

3.1 Installation to DIN rail

When installing the module, align the upper DIN rail installation groove on the module with the DIN rail 1), and press the module on to the DIN rail 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.



TH35-7.5Fe and TH35-7.5A Applicable DIN rail Width:35mm

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.

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

4. Wiring

4.1 Connecting and wiring of connector for I/O interface

Wire the connector for I/O interface (e-CON) according to the following

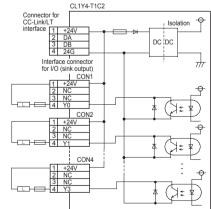
procedure: 1) Verify that the plug cover is installed in the plug unit

- Caution: Do not push the plug cover into the plug unit before the cable is inserted.
- Once a plug is pressure-displaced, it can no longer be reused.
- 2) Insert the cable until it makes contact with the plug unit. When inserting the cable, confirm that it has been inserted completely. If the cable is not inserted completely, it may cause contact failures.
- If the cross section of the cable is not round, the cable cannot be inserted smoothly. Cut the cable tip using pliers, etc., and make is as round as possible, then insert it.
- When inserting the cable, the cable may stick out from the front of the cover. In such a case, pull the cable backward so that the tip of the cable stays within the plug cover.
- Using a pliers or special tool, push the plug cover into the plug unit, and pressure-displace it. After performing pressure displacement, verify that the plug cover is securely attached to the plug unit, as shown in the figure at right.

While performing pressure displacement, the plug cover may rise because it is not latched against the plug unit correctly. This condition indicates that pressure displacement is incomplete. Push the plug cover until it is securely installed in the plug unit.

4.2 External wiring

The output terminals of the CL1Y4-T1C2 are fixed to the sink output.



5.1 General specifications Item

5. Specifications

Specification Ambient 0 to 55°C (32 to 131°F) working temperature Ambient storage -25 to 75°C (-13 to 167°F) Ambient operating 5 to 95%RH: Dew condensation shall not be considered. numidity Ambient 5 to 95%RH: Dew condensation shall not be considered. storage humidity Number of times of When intermittent vibration is present sweep Frequency Acceleration Half amplitude 0.075mm 10 to 57Hz Vibration 7 to 150Hz 9.8m/s² 10 times in each of resistance (*1) When continuous vibration is present X, Y and Z direction (for 80 min) requency Acceleration Half amplitude 10 to 57Hz 0.035mm 57 to 150Hz 4.9m/s² Impact 147 m/s², 3 times in each of X. Y and Z directions resistance (*1) Operating Corrosive gas shall not be present. atmosphere Operating 2,000m(6561'8") or less (*2) . altitude Installation nside control panel (*3) Over-voltage II or less (*4) category

5.2 Output specifications

Output operation

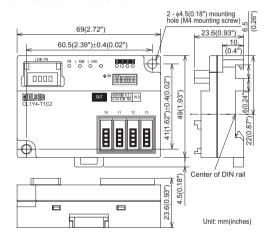
indicator LEDs

nterface

Item		Specification		
Output method		Transistor output (Power supply supplied from CC-Link/LT interface) (sink)		
Number of outputs		4 points		
Isolation method		Isolation with photocoupler		
Rated load voltage		24V DC		
Operating load voltage range		20.4 to 28.8V DC (Ripple ratio: Within 5%)		
Max. load current		0.1A/point, 0.4 A/1 common		
Max. inrush current		0.4A/10 ms		
Leakage current at OFF		0.1mA or less		
Max. voltage drop at ON		0.3V or less (typical)/0.1A		
		0.6V or less (max.)/0.1A		
Response	OFF→ON	1.0ms or less		
time	ON→OFF	1.0ms or less		
Surge suppression		Zener diode		
Common wiring method		4 points/1 common		
		(sensor connector 2-wire type)		
Internal protection for outputs		Internal protection circuit none		
		Please connect the fuse in the connected load outside.		

Item		Specification		
Module power supply	Voltage	20.4 to 28.8V DC (24V DC -15% to +20%) Ripple ratio: Within 5%		
	Current consumption	60mA (when all points are ON) Not including external load current		
	Initial current	70mA		
	Max. allowable momentary power failure period	PS1:1ms		
Number of stations occupied		4-, 8- or 16-point mode: 1 station		
Noise durability		500Vp-p Noise width: 1µs Cycle: 25 to 60 Hz (by noise simulator)		
Withstand voltage		500V AC for 1 min between primary area (externa DC terminal) and secondary area (internal circuit		
Isolation resistance		10 $M\Omega$ or more between primary area (external DC terminal) and secondary area (internal circuit by 500V DC megger		
Protection class		IP2X		
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)		0.04 kg (0.09 lbs)		

6. Outside Dimensions



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A For safe

Country/F

Brazil

Poland

The criterion is shown in IEC61131-2.

2 or less (*5)

Degree of contamination

- *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.

- This product has been manufactured as a general-purpose part for general 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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