★MITSUBISHI ELECTRIC CORPORATION

IB No IB-0800180-A AJ65FBTA42-16DTEU Model

AJ65FBTA42-16DTE CC-Link System Low Profile Waterproof Type Remote I/O Module User's Manual

SAFETY PRECAUTIONS

(Read these precautions before using.)

When using this equipment, thoroughly read this manual, Also pay careful attention to safety and handle the module properly

These precautions apply only to this equipment. Refer to the CPU module user's manual for a

description of the PC 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 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 A CAUTION may also result in to

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 PRECATUIONS]

<!>DANGER

- When a communication error occurs in the data link, the communication error station will be in the following condition. Configure an interlocking circuit in a sequence program using the communication status information so that the safety of the overall system is always maintained.
 - Accident may occur due to output error or malfunction.
 - (1) Input points from remote I/O station will be all switched off.
 - (2) Output points from remote I/O station will be all switched off.
- Input could be switched on or off when a problem occurs in the remote I/O modules. So build an external monitoring circuit that will monitor any output signals that could cause a serious accident

∴CAUTION

- Use each module in an environment as specified in the "general specification" in the CPU module user's manual. Usage of the module outside the general specification range may cause electric shock, fire, malfunction, product damage or deterioration.
- 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.

[INSTALLATION PRECAUTIONS]

- 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

Loose terminal screws may cause a short circuit or erroneous operation. If the terminal screws are too tight, it may cause falling, short circuit or erroneous operation due to damage of the screws.

IWIRING PRECAUTIONS

<!>DANGER

 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

- Be sure to ground the FG terminal to the protected grounding conductor. Otherwise there will be a danger of malfunctions.
- Fix the attachment screws of the waterproof cap and communication adapter securely within the specified torque range.
 - Loose attachment screws may cause a fire or erroneous operation. If the attachment screws are too tight, it may cause a short circuit or erroneous operation due to damage of the screws.
- 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 misswiring may cause fire and/or product failure.
- 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. IP67 is only satisfied when the waterproof plug, waterproof cap, and
- communication adapter are all connected.
- Do not attach the communication cable to the I/O connector in order to keep the same form for the I/O connector, communication connector and the power connector. Otherwise, the module may be damaged or there may be erroneous operation

[STARTING AND MAINTENANCE PRECAUTIONS]

(!)DANGER

- Do not touch 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. If you do not switch off the external power supply, it will cause failure of malfunction of the module.

.^.CAUTION

- Never try to disassemble of modify module. It may cause product failure malfunction, fire or cause injury.
- Make sure to switch all phases of the external power supply off before installing or removing the module to/from the panel. If you do not switch off the external power supply, it will cause failure or malfunction of the module.

[DISPOSAL PRECAUTIONS]

⚠ CAUTION

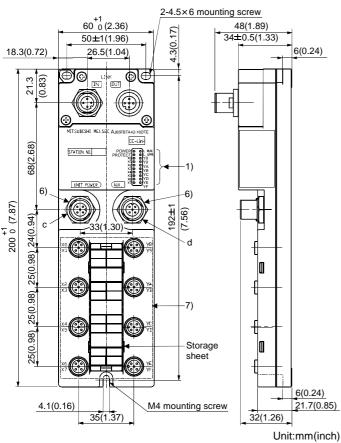
• When disposing of this product, treat it as industrial waste.

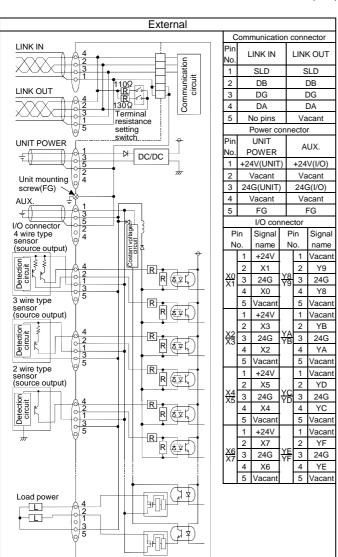
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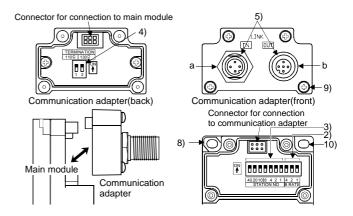
Specification

<u>1.</u>	Specification								
Specification			Description						
Pro	otection of degree		IP67						
	Number of input poi	nts	8 points						
	Isolation method		Photocoupler						
	Rated input voltage		24VDC						
_	Rated input current		Approx. 7mA						
specification	Operating voltage ra	ange	20.4 to 26.4VDC (ripple ratio : within 5 %)						
	Max. simultaneous		100 %						
	ON voltage/ON curr		14V or higher/3.5mA or higher						
g	OFF voltage/OFF co		6V or lower/1.7mA or lower						
nput	Input resistance		Approx. 3.3kΩ						
⊑		OFF→ON	1.5ms or lower (when 24VDC)						
	Response time	ON→OFF	1.5ms or lower (when 24VDC)						
	Input form	10	Negative common (Source type)						
	Common wiring met	hod	8 points/1 common (waterproof connector 2 to 4-wire type)						
	Number of output po		8 points						
	Isolation method		Photocoupler						
	Rated load voltage		24VDC						
	Operating load volta	ige range	20.4 to 26.4VDC (ripple ratio : within 5 %)						
	Max. load current	.gg.	1.0A/point 4.0A/common						
	Max. load inrush cu	rent	2.0A 10ms or lower						
ڃ	Leakage current at		0.3mA or lower						
aţi			0.15VDC or lower (TYP) 1.0A						
I∺	Voltage drop at ON		0.2VDC or lower (MAX) 1.0A						
specification	Output method		Source type						
T S	Durate at from attack		Yes (thermal protection, short circuit protection)						
₫	Protect function Response OFF→ON		LED lights up when protection is occurring.						
Q	Response	OFF→ON	0.5ms or lower						
	time	ON→OFF	1.5ms or lower (resistive load)						
	External Power supply for output	Voltage	20.4 to 26.4VDC (ripple ratio : within 5%)						
		Current	15mA or lower(When 24VDC and all point is ON)						
	supply for output	Current	Not including external load current						
	Surge suppressor		Zener diode						
	Common wiring met	hod	8 points/1 common (waterproof connector 2-wire type)						
Number of stations occupied			1 station 32 points assignment (use 16points)						
I/O module Voltage			20.4 to 26.4VDC (ripple ratio : within 5%)						
po	wer supply	Current	45mA or lower (When 24VDC and all point is on)						
			DC type noise voltage 500Vp-p						
No	ise durability		noise width 1µs,noise carrier frequency 25 to 60Hz (noise						
<u> </u>		simulator condition)							
Wi	Withstand voltage		500VAC for 1 minute between all DC external termina						
₩			and ground						
Insulation resistance			10 $M\Omega$ or higher, measured with a 500VDC insulation resistance tester						
۱۸/-	night		0.40kg						
Weight			U.4UKY						

For information about the connection devices necessary to use the main module. see the CC-Link System Small-Type Remote I/O Module User's Manual.







Transmission speed setting such that transmission speed setting such transmission speed sett	<u>2. N</u>	Name and Setting of Each Area														
PROTECT Lights up when the output section protection function is working.	No.	Item														
PROTECT PROT					On: I	2011	or c	unn	hı o-							
PROTECT Working. (During the protect operation, fuse interruption is searched in the master unit side.) L RUN On: Normal communication. Control (Files expiration error).			POW	/EK												
Doperating Status indicator LRUN On: Normal communication. On: Communication cutofflime expiration error).			DD0	тгот												
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LEDs Letter Let		Operating			On: Communication data error.											
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Coff. Normal communication.					forgotten; when the cable for the module, CC-Link is											
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Setting value			V0 44	. V7												
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1			+	0	- ,		_	_					156 kbps			
Speed setting 3				1					С			ON				
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7) connector for input/output signal. (Female 5 pins) Be sure to attach waterproof cap A6CAP-WP2 (sold separately) when not in use. (Tightening torque range: 0.29 N/m to 0.34 N/m.) 8) FG metal fitting For module FG terminal (tightening torque range: 0.78 N/m to 1.18 N/m) Screw for communication adapter removal/attach ment Module Module Screw hole for module attachment 2-4.5 X 6 length hole (M4 attachment excess) (Tightening torque range: 0.78 N/m to 1.18 N/m) Screw hole for module attachment. 2-4.5 X 6 length hole (M4 attachment excess) (Tightening torque range: 0.78 N/m to 1.18 N/m)			ŭ		AUX.			(Male 5 pins)								
7) Conflection of input/output connection *2 8) FG metal fitting For module FG terminal (tightening torque range: 0.29 N/m to 0.34 N/m.) Screw for communication adapter removal/attach ment Module Module attachment of the communication adapter to the main module when online or when changing the switch settings. Screw hold for module attachment 2-4.5 X 6 length hole (M4 attachment eccent (Tightening torque range: 0.78 N/m to 1.18 N/m) Screw hold for module attachment 2-4.5 X 6 length hole (M4 attachment eccent (Tightening torque range: 0.78 N/m to 1.18 N/m)		Waterproof	Westernand connector for connection in cuttor death along the connection in cuttor death along the connector of the connection in cuttor death along the c													
In use. (Tightening torque range: 0.29 N/m to 0.34 N/m.) Screw for communication adapter removal/attach ment Module	7)		Be sure to attach waterproof cap A6CAP-WP2 (sold separately) when not													
8) FG metal fitting For module FG terminal (tightening torque range: 0.78 N/m to 1.18 N/m) Screw for communication adapter of the main module when online or when changing the switch settings. Wodule attachment of the communication adapter to the main module when online or when changing the switch settings. (Tightening torque range: 0.42 N/m to 0.58 N/m.) Module attachment of the communication adapter to the main module when online or when changing the switch settings. (Tightening torque range: 0.78 N/m to 1.18 N/m)	,															
Screw for communication adapter to the main module when online or when changing the switch settings. Wodule Module Screw hole for module attachment of the communication adapter to the main module when online or when changing the switch settings. (Tightening torque range: 0.42 N/m to 0.58 N/m.) Module Screw hole for module attachment 2-4.5 X 6 length hole (M4 attachment ecrew) (Tightening torque range: 0.78 N/m to 1.18 N/m)	8)		For r	nodule	FG te	ermii	nal	(tia	hten	ina tor	an	ie tande.	0 78 N	I/m to 1 18 N/m)		
communication adapter to adapter removal/attachment of the communication adapter to the main module when online or when changing the switch settings. removal/attach ment (Tightening torque range: 0.42 N/m to 0.58 N/m.) Module attachment Screw hole for module attachment. 2-4.5 X 6 length hole (M4 attachment screw) (Tightening torque range: 0.78 N/m to 1.18 N/m)	٥)		or module FO terminal (lighterning torque range: 0.78 N/m to 1.18 N/m)									(3 1.70 14/111)				
removal/attach (Tightening torque range: 0.42 N/m to 0.58 N/m.) Module Module Screw hole for module attachment. 2-4.5 X 6 length hole (M4 attachment ecrew) (Tightening torque range: 0.78 N/m to 1.18 N/m)		communication	Use	Use this screw for removal/attachment of the communication adapter to												
ment Module 10) attachment Screw hole for module attachment. 2-4.5 X 6 length hole (M4 attachment ecrew) (Tightenian torque range: 0.78 N/m to 1.18 N/m)	9)															
Module 10) attachment Screw hole for module attachment. 2-4.5 X 6 length hole (M4 attachment			(Tigritering torque range: 0.42 N/III to 0.30 N/III.)													
10) allachment screw) (Tightening torque range: 0.78 N/m to 1.18 N/m)		Module	Screw hole for module attachment, 2-4.5 X 6 length hole (M4 attachment													
I IDOIG	10)	attachment hole														

^{*1:} Duplicate station number cannot be set.

^{*2:} Waterproof connector (based on IEC947-5-2, M12 type)