

Before Using the Product

Please read this document before use. Keep the document in a safe place for future reference. Make sure that the end users read the document.

1. Precautions regarding warranty and specifications

The QJ51AW12AL and LJ51AW12AL have been jointly developed and manufactured by Mitsubishi and Anywire Corporation.

Note that there are some precautions regarding warranty and specifications of the products.

◆ Warranty

Item	QJ51AW12AL, LJ51AW12AL	Other programmable controller products (e.g. MELSEC-Q series)
Gratis warranty term	One (1) year after the date of delivery or for eighteen (18) months after manufacturing	Thirty six (36) months after the date of delivery or for forty two (42) months after manufacturing
Repair term after discontinuation of production	1 year	7 years

◆ Application of the EMC Directive

Item	QJ51AW12AL, LJ51AW12AL	Other programmable controller products (e.g. MELSEC-Q series)
Applicable EMC standard	EN61131-2 ^{*1}	EN61131-2

^{*1} This applies to a module with a serial number (the sixth digit) of 2.

◆ Application of the UL/cUL standards

Item	QJ51AW12AL, LJ51AW12AL	Other programmable controller products (e.g. MELSEC-Q series)
Applicable UL standard/cUL standard	UL508 ^{*2} CSA22.2 ^{*2}	UL508 CSA22.2

^{*2} This applies to a module with a serial number (the sixth digit) of 3.

2. Relevant manuals

Before using this product, please read the manual included with the CPU module, base unit, or head module.

- SAFETY PRECAUTIONS
- CONDITIONS OF USE FOR THE PRODUCT

Details of the product are also described in the manual shown below (sold separately).

Please read the manual and understand the functions and performance of the product to use it correctly.

- MELSEC-Q/L AnyWireASLINK Master Module User's Manual SH-081094ENG (13JZ70)

2. Manuels correspondants

Avant d'utiliser ce produit, prière de lire le manuel fournies avec l'le module de CPU, unité de base, ou module de tête.

- PRÉCAUTIONS DE SÉCURITÉ
- CONDITIONS D'UTILISATION DE PRODUIT

3. Compliance with EMC and Low Voltage Directives

◆ Method of ensuring compliance

To ensure that Mitsubishi programmable controllers maintain EMC and Low Voltage Directives when incorporated into other machinery or equipment, certain measures may be necessary. Please refer to one of the following manuals.

- User's manual for the CPU module or head module used
 - Safety Guidelines
- (This manual is included with the CPU module, base unit, or head module.)

◆ Additional measures

To ensure that this product maintains EMC and Low Voltage Directives, please refer to the following manual.

- MELSEC-Q/L AnyWireASLINK Master Module User's Manual

4. Safety precautions

The following precautions are unique to this product and are not described in the manual included with the CPU module, base unit, or head module. Please read them before using this product.

[Design Instructions]

⚠ WARNING

- An AnyWireASLINK system has no control function for ensuring safety.

[Wiring Precautions]

⚠ CAUTION

- Do not apply the 24VDC power before wiring the entire AnyWireASLINK system.
- Connect a 24VDC external power supply to the device in an AnyWireASLINK system.

4. Précautions de sécurité

On trouvera ci-après l'exposé de précautions à observer, non mentionnées dans le manuel du module CPU ou de l'unité de base car elles sont spécifiques à ce produit. Lire ces précautions avant d'utiliser le produit.

[Règles de conception]

⚠ AVERTISSEMENT

- Un système AnyWireASLINK n'a pas de fonction de commande permettant d'assurer la sécurité.

[Précautions de câblage]

⚠ ATTENTION

- Ne pas appliquer l'alimentation 24 V cc avant d'avoir achevé le câblage de la totalité du système AnyWireASLINK.
- Dans un système AnyWireASLINK, utiliser des alimentations 24 V cc externes pour alimenter les dispositifs.

5. Packing list

Check that the following items are included in the package.

Item	Quantity
Module	1
"Before Using the Product" (this document)	1

6. Signal layout

Répartition des signaux

◆ Transmission cable terminal block

Terminal	Description
24V	Power supply terminals for driving the transmission circuit for the AnyWireASLINK system. Connect a 24VDC external power supply to the 24V and 0V terminals.
0V	AnyWireASLINK transmission signal terminals DP: Transmission cable (+), DN: Transmission cable (-)
DP	AnyWireASLINK transmission signal terminals DP: Transmission cable (+), DN: Transmission cable (-)
DN	Connect the DP and DN terminals to those on the slave module or terminating unit.
LG	Connect the LG terminal to the neutral point of the noise filter inserted between the 24V and the 0V terminals. Ground the LG terminal with the functional ground terminal (FG terminal) on the programmable controller at a single point.

English	French
Description	Description
Terminal	Borne
Transmission cable terminal block	Plaque à bornes pour câbles de transmission
Power supply terminals for driving the transmission circuit for the AnyWireASLINK system.	Bornes d'alimentation de commande du circuit de transmission du système AnyWireASLINK.
Connect a 24VDC external power supply to the 24V and 0V terminals.	Raccorder une alimentation 24 V cc externe aux bornes 24 V et 0 V.
AnyWireASLINK transmission signal terminals	Bornes des signaux de transmission AnyWireASLINK.
Transmission cable	Câble de transmission
Connect the DP and DN terminals to those on the slave module or terminating unit.	Raccorder les bornes DP et DN à celles du module esclave ou de l'unité de terminaison.
Connect the LG terminal to the neutral point of the noise filter inserted between the 24V and the 0V terminals.	La borne LG se raccorde au point neutre du filtre de bruit installé entre les bornes 24 V et 0 V.
Ground the LG terminal with the functional ground terminal (FG terminal) on the programmable controller at a single point.	Mettre à la masse en un seul point la borne LG avec la borne de terre fonctionnelle (borne FG) sur l'automate programmable.



7. Wiring products

Produits pour câblage

◆ Transmission cable terminal block

When wiring, use applicable wires and an appropriate tightening torque.

Model name	Tightening torque
MC 1,5/5-STF-3,81 ^{*1}	0,2N·m to 0,3N·m

^{*1} Use wires manufactured by Phoenix Contact Co., Ltd. (Contact: www.phoenixcontact.com)

Item	Name	Wire diameter	Type	Material	Temperature rating
Transmission cable (DP, DN)	UL-listed general-purpose 2-wire cable (VCTF, VCT)	1.25mm ² 0.75mm ²	Stranded	Copper	70°C or more
	UL-listed general-purpose wire	1.25mm ² 0.75mm ²			
	Dedicated flat cable	1.25mm ² 0.75mm ²			
Power cable (24V, 0V)	UL-listed general-purpose 2-wire cable (VCTF, VCT)	0.75mm ² to 2.0mm ²	Stranded	Copper	70°C or more
	UL-listed general-purpose wire	0.75mm ² to 2.0mm ²			
	Dedicated flat cable	1.25mm ² 0.75mm ²			

◆ Plaque à bornes pour câbles de transmission

Pour le câblage, utiliser les fils et couples de serrage prescrits.

Nom de modèle	Couple de serrage
MC 1,5/5-STF-3,81 ^{*1}	0,2N·m à 0,3N·m

^{*1} Utiliser des fils fabriqués par Phoenix Contact Co., Ltd. (Contact: www.phoenixcontact.com)

Rubrique	Nom	Diamètre du fil	Type	Matériau	Gamme de température
Câble de transmission (DP, DN)	Câble 2 fils pour usage courant agréé UL (VCTF, VCT)	1,25mm ² 0,75mm ²	Torsadé	Cuivre	70°C ou plus
	Fil pour usage courant agréé UL (VCTF, VCT)	1,25mm ² 0,75mm ²			
	Câble-ruban dédié	1,25mm ² 0,75mm ²			
Câble d'alimentation (24V, 0V)	Câble 2 fils pour usage courant agréé UL (VCTF, VCT)	0,75mm ² à 2,0mm ²	Torsadé	Cuivre	70°C ou plus
	Fil pour usage courant agréé UL (VCTF, VCT)	0,75mm ² à 2,0mm ²			
	Câble-ruban dédié	1,25mm ² 0,75mm ²			

8. Installation of the unit

Consider ease of operation, maintainability, and resistance to adverse environmental conditions when installing the product in a control panel, etc. All units in the MELSEC-L series must be connected as a system using DIN rail connection.

Securely install all units in the MELSEC-Q series on the base unit.

Also refer to the User's Manual (Hardware Design, Maintenance and Inspection) for details of installation.

8. Installation de l'unité

Prendre en considération la commodité d'exploitation et de maintenance, ainsi que la bonne résistance aux facteurs environnementaux adverses lors de l'installation en tableau de commande, etc. Toutes les unités de la série MELSEC-L doivent être connectées en un système de connexion par rails DIN.

Installer fermement toutes les unités de la série MELSEC-Q sur l'unité de base. Pour le détail de l'installation, voir aussi le Manuel de l'utilisateur (Conception du matériel, maintenance et inspection).

9. Operating ambient temperature

Use the product within the range from 0 to 55°C.

9. Température ambiante de fonctionnement

Ce produit doit être utilisé entre 0 et 55°C.

10. Information and services

For further information and services, please consult your local Mitsubishi representative.

11. Contact of the co-branded product

Anywire Anywire Corporation www.anywire.jp