

Before Using the Product

SAFETY PRECAUTIONS

Before using this product, please read this manual and the relevant manuals carefully and pay full attention to safety to handle the product correctly.

WARNING Indicates that incorrect handling may cause hazardous conditions, resulting in death or severe injury.

ATTENTION Attire l'attention sur le fait qu'une négligence peut créer une situation de danger avec risque de blessures graves.

Under some circumstances, failure to observe the precautions given under "CAUTION" may lead to serious consequences.

Design Precautions

WARNING

- In the case of a communication failure in the network, data in the master module are held. Check data link status (each station) (SW00B0 to SW00B7) and configure an interlock circuit in the program to ensure that the entire system will operate safely.

CAUTION

- Do not install the control lines or communication cables together with the main circuit lines or power cables. Keep a distance of 100mm or more between them. Failure to do so may result in malfunction due to noise.

Installation Precautions

WARNING

- Shut off the external power supply (all phases) used in the system before mounting or removing a module. Failure to do so may result in electric shock or cause the module to fail or malfunction.

CAUTION

- Use the module in an environment that meets the general specifications in the user's manual for the module. Failure to do so may result in electric shock, fire, malfunction, or damage to or deterioration of the product.

Wiring Precautions

WARNING

- Shut off the external power supply (all phases) used in the system before wiring. Failure to do so may result in electric shock or cause the module to fail or malfunction.

CAUTION

- Check the rated voltage and terminal layout before wiring to the module, and connect the cables correctly. Connecting a power supply with a different voltage rating or incorrect wiring may cause a fire or failure.

Startup and Maintenance Precautions

WARNING

- Shut off the external power supply (all phases) used in the system before cleaning the module or retightening the terminal block screws and connector screws. Failure to do so may cause the module to fail or malfunction.

CAUTION

- Do not disassemble or modify the module. Doing so may cause failure, malfunction, injury, or a fire.

Disposal Precautions

CAUTION

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

Precautions lors de la conception

AVERTISSEMENT

- En cas de problème de communication dans le réseau, les données sont gardées en mémoire du module maître. Vérifier l'état de la liaison de données (sur chaque station) (SW00B0 à SW00B7) et constituer dans le programme séquentiel un circuit de verrouillage permettant de garantir la sécurité de fonctionnement de l'ensemble du système.

ATTENTION

- Ne pas entretenir les lignes de commandes ou câbles de communication avec les lignes des circuits principaux ou les câbles d'alimentation. Les installer en maintenant entre eux une distance minimum de 100mm. Faute de quoi, il y a risque de dysfonctionnement par un bruit.

Précautions d'installation

AVERTISSEMENT

- Couper l'alimentation externe du système (sur toutes les phases) avant de mettre en place ou de retirer un module. Faute de quoi, il y a risque d'électrocution et le module risque de tomber en panne ou de mal fonctionner.

ATTENTION

- Utiliser le module dans un environnement en conformité avec les spécifications générales que présente son Manuel de l'utilisateur. Faute de quoi, il y a risque d'électrocution, de départ de feu, de dysfonctionnement, d'endommagement ou de détérioration du produit.

ATTENTION

- Après la première mise en service du produit, le nombre maximum admissible d'opérations de connexion/déconnexion du module d'extension est de 50 (selon IEC 61131-2). Au-delà de cette limite, il y a risque de dysfonctionnements.

Précautions de câblage

AVERTISSEMENT

- Avant le câblage, couper l'alimentation externe du système (sur toutes les phases). Faute de quoi, il y a risque d'électrocution et le module risque de tomber en panne ou de mal fonctionner.

ATTENTION

- Mettre à la terre individuellement la borne FG de l'automate programmable avec une résistance de terre inférieure à 100Ω. Faute de quoi, il y a risque d'électrocution et de dysfonctionnement.

Précautions de mise en service et de maintenance

AVERTISSEMENT

- Couper l'alimentation externe (sur toutes les phases) utilisée par le système avant le nettoyage du module ou le resserrage des vis des bornes et des vis des connecteurs. Le non-respect de cette précaution peut être à l'origine de pannes ou de dysfonctionnements du module.

ATTENTION

- Ne pas démonter ni modifier le module. Cela pourrait entraîner des pannes ou dysfonctionnements et être à l'origine de blessures ou de départs de feu.

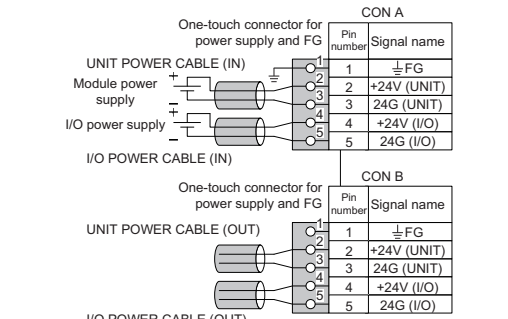


Table with 2 columns: English and French. It lists connector types and their corresponding French descriptions, such as 'One-touch connector for power supply and FG' / 'Connecteur instantané pour alimentation et FG'.

Wiring of the connector for input

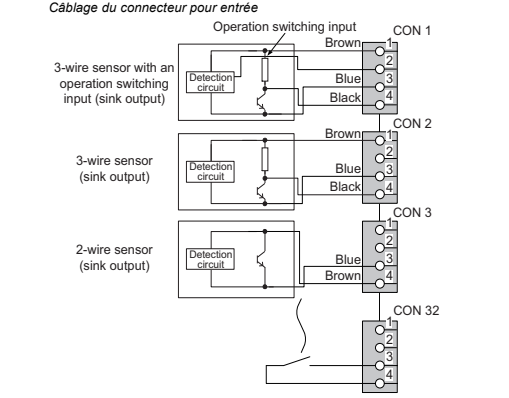


Table with 2 columns: English and French. It lists sensor types and their corresponding French descriptions, such as '3-wire sensor with an operation switching input (sink output)' / 'Capteur fil-3 avec entrée réversible (sortie dissipateur)'.

Large table mapping signal names and pin numbers between English and French for various connectors (CON 1 to CON 32). It lists signal names like +24V, +V, 24G, X0, X1, etc., and their corresponding French names.

4.2 Wiring products

Table for 'Produits pour câblage' showing applicable cables for CC-Link IE Field Network. It lists cable names, connector types, cable descriptions, and categories.

Wiring of the connector for power supply and FG. The following table lists applicable connectors for power supply and FG. When wiring, use applicable wires.

Précautions de mise au rebut

ATTENTION

- Lors de sa mise au rebut, ce produit doit être traité comme un déchet industriel.

CONDITIONS OF USE FOR THE PRODUCT

- Mitsubishi programmable controller ("the PRODUCT") shall be used in conditions: i) where any problem, fault or failure occurring in the PRODUCT, if any, shall not lead to any major or serious accident.

- Mitsubishi SHALL HAVE NO RESPONSIBILITY OR LIABILITY (INCLUDING, BUT NOT LIMITED TO ANY AND ALL RESPONSIBILITY OR LIABILITY BASED ON CONTRACT, WARRANTY, TORT, PRODUCT LIABILITY) FOR ANY INJURY OR DEATH TO PERSONS OR LOSS OR DAMAGE TO PROPERTY CAUSED BY THE PRODUCT THAT ARE OPERATED OR USED IN APPLICATION NOT INTENDED OR EXCLUDED BY INSTRUCTIONS, PRECAUTIONS, OR WARNING CONTAINED IN MITSUBISHI'S USER INSTRUCTION AND/OR SAFETY MANUALS, TECHNICAL BULLETINS AND GUIDELINES FOR THE PRODUCT.

Notwithstanding the above, restrictions Mitsubishi may in its sole discretion, authorize use of the PRODUCT in one or more of the Prohibited Applications, provided that the usage of the PRODUCT is limited only for the specific applications agreed to by Mitsubishi and provided further that no special quality assurance or fail-safe, redundant or other safety features which exceed the general specifications of the PRODUCTS are required.

1. Relevant manuals

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.

- CC-Link IE Field Network Remote I/O Module User's Manual SH-081114ENG (13J282)

2. Packing list

Table listing items included in the package: Module (1) and 'Before Using the Product' (this document) (1).

3. Operating ambient temperature

Use the module in the ambient temperatures of 0 to 55°C.

3. Température ambiante de fonctionnement

Utiliser le module avec une température ambiante entre 0 et 55°C.

4. Wiring

Câblage

4.1 Wiring diagrams

Schémas de câblage

- Wiring of the connector for power supply and FG. Câblage de connecteur pour alimentation et FG.

Table listing applicable cable specifications for different models. It includes columns for Model, Core size, Diameter, Type, Material, and Temperature rating.

Wiring of the connector for input. A sensor connector (e-CON) is adopted for the connector for input. Use the applicable connector plug and wires for the sensor connector (e-CON). For the recommended products, refer to the manual listed in "Relevant manuals".

Câblage du connecteur pour entrée. Comme connecteur d'entrée, on a adopté un connecteur de capteur (e-CON). Utiliser la prise de connecteur et les fils prescrits pour connecteur de capteur (e-CON). Pour les produits recommandés, se reporter au manuel cité à la rubrique "Relevant manuals" (Manuels correspondants).

5. EMC and Low Voltage Directives

For EMC and Low Voltage Directives, refer to the manual described in 1. Relevant manuals.

6. Information and services

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

WARRANTY

Please confirm the following product warranty details before using this product. 1. Gratis Warranty Term and Gratis Warranty Range. If any faults or defects (hereinafter "Failure") found to be the responsibility of Mitsubishi occurs during use of the product within the gratis warranty term, the product shall be repaired at no cost via the sales representative or Mitsubishi Service Company.

- However, if repairs are required onsite at domestic or overseas location, expenses to send an engineer will be solely at the customer's discretion. Mitsubishi shall not be held responsible for any re-commissioning, maintenance, or testing on-site that involves replacement of the failed module. [Gratis Warranty Term] The gratis warranty term of the product shall be for one year after the date of purchase or delivery to a designated place. Note that after manufacture and shipment from Mitsubishi, the maximum duration period shall be six (6) months, and the longest gratis warranty term after manufacturing shall be eighteen (18) months. The gratis warranty term of repair parts shall not exceed the gratis warranty term before repairs.

- [Gratis Warranty Range] (1) The range shall be limited to normal use within the usage state, usage methods and usage environment, etc., which follow the conditions and precautions, etc., given in the instruction manual, user's manual and caution labels on the product. (2) Even within the gratis warranty term, repairs shall be charged for in the following cases: 1. Failure occurring from inappropriate storage or handling, carelessness or negligence by the user.

2. Onerous repair term after discontinuation of production

- (1) Mitsubishi shall accept onerous product repairs for seven (7) years after production of the product is discontinued. Discontinuation of production shall be notified with Mitsubishi Technical Bulletins, etc. (2) Product supply (including repair parts) is not available after production is discontinued.

3. Overseas service

Overseas, repairs shall be accepted by Mitsubishi's local overseas FA Center. Note that the repair conditions at each FA Center may differ.

4. Exclusion of loss in opportunity and secondary loss from warranty liability

Regardless of the gratis warranty term, Mitsubishi shall not be liable for compensation of damages caused by any cause found not to be the responsibility of Mitsubishi, loss in opportunity, lost profits incurred to the user by Failures of Mitsubishi products, special damages and secondary damages whether foreseeable or not, compensation for accidents, and compensation for damages to products other than Mitsubishi products, replacement by the user, maintenance of on-site equipment, start-up test run and other tasks.

5. Changes in product specifications

The specifications given in the catalogs, manuals or technical documents are subject to change without prior notice.