

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.

Relevant manuals

Before using the product, please read the Safety Guidelines included with the base unit used, especially the following sections.

- SAFETY PRECAUTIONS
- CONDITIONS OF USE FOR THE PRODUCT
- EMC AND LOW VOLTAGE DIRECTIVES
- WARRANTY

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 QD73A1 Positioning Module User's Manual
SH-081075ENG(13JZ69)

Manuels correspondants

Avant d'utiliser ce produit, prière de lire les "Safety Guidelines" (directive de sécurité) fournies avec l'unité de base, en particulier dans les sections suivantes.

- PRÉCAUTIONS DE SÉCURITÉ
- CONDITIONS D'UTILISATION DE PRODUIT
- DIRECTIVES CEM ET BASSE TENSION
- GARANTIE

Packing list

Check that the following items are included in the package.

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

Signal layout

Répartition des signaux

| Connector name | Pin arrangement | Pin number | Signal name |
|----------------|-----------------|------------|--|
| CONT. | | 1 | Near-point dog signal (DOG) |
| | | 2 | Empty |
| | | 3 | Empty |
| | | 4 | Empty |
| | | 5 | Power supply (5 to 24V) |
| | | 6 | Lower limit signal (RLS) |
| | | 7 | Upper limit signal (FLS) |
| | | 8 | Speed-position switching command signal (CHANGE) |
| | | 9 | Stop signal (STOP) |
| SERVO | | 1 | Servo READY signal (READY) (+ side) |
| | | 2 | Servo READY signal (READY) (- side) |
| | | 3 | Servo ON signal (SVON) (+ side) |
| | | 4 | Servo ON signal (SVON) (- side) |
| | | 5 | Phase-B feedback pulse (PULSE B) (+ side) |
| | | 6 | Phase-Z feedback pulse (PULSE Z) (+ side) |
| | | 7 | Phase-Z feedback pulse (PULSE Z) (- side) |
| | | 8 | Empty |
| | | 9 | Analog GND |
| | | 10 | Phase-B feedback pulse (PULSE B) (- side) |
| | | 11 | Phase-A feedback pulse (PULSE A) (- side) |
| | | 12 | Empty |
| | | 13 | Phase-A feedback pulse (PULSE A) (+ side) |
| | | 14 | Speed command signal (- side) |
| | | 15 | Speed command signal (+ side) |

| English | French | English | French |
|-------------------------------------|--------------------------------|---|--|
| Power supply | Alimentation | Connector name | Nom du connecteur |
| Signal name | Nom de signal | Pin arrangement | Attribution des broches |
| Pin number | Broche N° | Analog GND | GND analogique |
| Empty | Inutilisé | Phase-* feedback pulse (PULSE *) | Impulsion de retour phase * (PULSE *) |
| Viewed from the front of the module | Vue de l'avant du module | Servo ON signal | Signal ON du servo |
| Stop signal | Signal d'arrêt | Servo READY signal | Signal READY du servo |
| Lower limit signal | Signal de limite basse | Speed command signal | Signal de commande de vitesse |
| Upper limit signal | Signal de limite haute | Speed-position switching command signal | Signal de commande de commutation vitesse-position |
| Near-point dog signal | Signal du capteur de proximité | | |

Wiring products

Produits pour câblage

The table below lists applicable 9-pin connector and 15-pin connector. When wiring, use applicable wire and an appropriate tightening torque.

| | External wiring connector ^{*1} | | Wire | | | |
|---|---|-------------------|-------------|----------|----------|--------------------|
| | Model | Tightening torque | Diameter | Type | Material | Temperature rating |
| 9-pin connector for external wiring (pin type) | 17JE-23090-02(D8A) | 0.20 to 0.29N·m | 28 to 24AWG | stranded | Copper | 75°C or more |
| 15-pin connector for external wiring (pin type) | 17JE-23150-02(D8A) | | | | | |

*1 Manufactured by DDK Ltd. (www.ddknet.co.jp/English/index.html)

Le tableau ci-dessous indique quels connecteurs 9 broches et 15 broches il faut utiliser. Pour le câblage, utiliser le fil prescrit et appliquer le couple de serrage prescrit.

| | Connecteur de câblage externe ^{*1} | | Fil | | | |
|---|---|-------------------|------------|---------|----------|----------------------|
| | Modèle | Couple de serrage | Diamètre | Type | Matériau | Gamme de température |
| Connecteur 9 broches pour câblage externe (type à broches) | 17JE-23090-02(D8A) | 0,20 à 0,29N·m | 28 à 24AWG | Torsadé | Cuivre | 75°C ou plus |
| Connecteur 15 broches pour câblage externe (type à broches) | 17JE-23150-02(D8A) | | | | | |

*1 Fabriqué par DDK Ltd. (www.ddknet.co.jp/English/index.html)

Installation of the unit

Consider ease of operation, maintainability, and resistance to adverse environmental conditions when installing the product in a control panel, etc. Securely install all units in the MELSEC-Q series on the base unit. Also refer to the QCPU User's Manual (Hardware Design, Maintenance and Inspection) for details of installation.

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. Installer fermement toutes les unités de la série MELSEC-Q sur l'unité de base. Pour le détail de l'installation, voir aussi le "QCPU User's Manual (Hardware Design, Maintenance and Inspection)" (le Manuel de l'utilisateur QCPU (conception du matériel, maintenance et inspection)).

Operating ambient temperature

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

Température ambiante de fonctionnement

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

Information and services

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