`LD75P1` `LD75P2` `LD75P4` `LD75D1` `LD75D2` `LD75D4`

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 "Safety Guidelines" that is supplied with the CPU module or head module.
- ● 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-L LD75P/LD75D Positioning Module User's Manual
  SH-080911ENG (13JZ46)

■ *Manuels correspondants*

Avant d'utiliser ce produit, prière de lire les "Safety Guidelines" (directive de sécurité) fournies avec l' le module de CPU ou module de tête, en particulier dans les sections suivantes.
- ● *PRÉCAUTIONS DE SÉCURITÉ*
- ● *CONDITIONS D'UTILISATION DE PRODUIT*
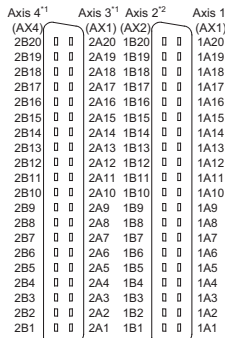- ● *DIRECTIVES CEM ET BASSE TENSION*
- ● *GARANTIE*

■ Packing list

Check that the following items are included in the package.

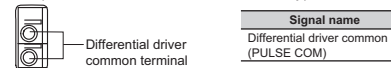| Item	Quantity
Module	1
"Before Using the Product" (this document)	1

■ Signal layout
■ *Répartition des signaux*

◆ 40-pin connector
  (module side)

Axis 4[1]   Axis 3[1]   Axis 2[2]   Axis 1
(AX4)   (AX1)   (AX2)   (AX1)

Viewed from the front of the module

Pin number[3]	Signal name	Pin number[3]	Signal name
1A20	Manual pulse generator B phase (PULSER B+)	1A11 1B11	Drive unit READY (READY)
1A19	Manual pulse generator A phase (PULSER A+)	1A10 1B10	Zero signal common (PGOCOM)
1B20	Manual pulse generator B common (PULSER B-)	1A9 1B9	Zero signal(+5V)(PGO5)
1B19	Manual pulse generator A common (PULSER A-)	1A8 1B8	Zero signal(+24V)(PGO24)
1A18 1B18	LD75P□:Pulse output R common (PULSE COM) LD75D□:Pulse output R(-) (PULSE R-)	1A7 1B7	Common(COM)
1A17 1B17	LD75P□:Pulse output R (PULSE R) LD75D□:Pulse output R(+) (PULSE R+)	1A6 1B6	Common(COM)
1A16 1B16	LD75P□:Pulse output F common (PULSE COM) LD75D□:Pulse output F(-) (PULSE F-)	1A5 1B5	External command signal (CHG)
1A15 1B15	LD75P□:Pulse output F (PULSE F) LD75D□:Pulse output F(+) (PULSE F+)	1A4 1B4	Stop signal(STOP)
1A14 1B14	Deviation counter clear common (CLRCOM)	1A3 1B3	Near-point watchdog signal (DOG)
1A13 1B13	Deviation counter clear (CLEAR)	1A2 1B2	Lower limit signal(RLS)
1A12 1B12	Drive unit READY common (RDYCOM)	1A1 1B1	Upper limit signal(FLS)

*1 These axes are not available for the LD75P1, LD75P2, LD75D1, and LD75D2.
*2 For the LD75P1 and LD75D1, the 1B18 to 1B1 terminals are not used.
*3 1A(B)20 to 1A(B)01 indicates in the case of axis 1 and axis 2 terminals of the connector. For the 2A(B)18 to 2A(B)01 terminals of axis 3 and axis 4, refer to 1A(B)18 to 1A(B)01. The 2A(B)20 and 2A(B)19 terminals are not used.

◆ Differential driver common terminal
  (LD75D1, LD75D2, and LD75D4 only)

Differential driver common terminal

Signal name
Differential driver common (PULSE COM)

English	French	English	French	English	French
Signal name	Nom de signal	Pulse output * common	Sortie d'imoulsions Commun *	Stop signal	Signal d'arrêt
Pin number	Broche N°	Deviation counter clear common	Annulation compteur déviation Commun	Near-point watchdog signal	Signal de surveillance d'approche
Viewed from the front of the module	Vue de l'avant du module	Deviation counter clear	Annulation compteur déviation	Lower limit signal	Signal de limite basse
40-pin connector	Connecteur 40 broches	Drive unit READY common	Unité de commande READY Commun	Upper limit signal	Signal de limite haute
module side	côté module	Drive unit READY	Unité de commande READY	Differential driver common terminal	Borne commune circuit d'attaque différentiel

English	French	English	French	English	French
Axis	Axe	Zero signal common	Signal zéro Commun	LD75D1, LD75D2, and LD75D4 only	LD75D1, LD75D2 et LD75D4 seulement
Manual pulse generator * phase	Générateur d'impulsions manuel Phase *	Zero signal	Signal zéro	Differential driver common	Circuit d'attaque différentiel Commun
Manual pulse generator * common	Générateur d'impulsions manuel Commun *	Common	Commun		
Pulse output *	Sortie d'impulsions *	External command signal	Signal de commande externe		

English	French
These axes are not available for the LD75P1, LD75P2, LD75D1, and LD75D2.	Ces axes ne sont pas disponibles dans le cas des LD75P1, LD75P2, LD75D1 et LD75D2.
For the LD75P1 and LD75D1, the 1B18 to 1B1 terminals are not used.	Pour les LD75P1 et LD75D1, les bornes 1B18 et 1B1 restent inutilisées.
1A(B)20 to 1A(B)01 indicates in the case of axis 1 and axis 2 terminals of the connector. For the 2A(B)18 to 2A(B)01 terminals of axis 3 and axis 4, refer to 1A(B)18 to 1A(B)01. The 2A(B)20 and 2A(B)19 terminals are not used.	1A(B)20 à 1A(B)01 revoient au cas des bornes aux bornes de connecteur pour axe 1 et axe 2. Pour les bornes 2A(B)18 à 2A(B)01 de l'axe 3 et de l'axe 4, voir 1A(B)18 à 1A(B)01. Les bornes 2A(B)20 et 2A(B)19 ne sont pas utilisées.

■ Wiring products
■ *Produits pour câblage*

The table below shows applicable 40-pin connectors and differential driver common terminal.
When wiring, use applicable wires and an appropriate tightening torque.
When using bar solderless terminals, use applicable solderless terminals and, for processing, use a tool recommended by their manufacturer.

Mitsubishi 40-pin connector/differential driver common terminal			Wire			
	Model	Tightening torque	Diameter	Type	Material	Temperature rating
Mitsubishi 40-pin connector	A6CON1	0.20 to 0.29N•m	22AWG	Stranded	Copper	75°C or more
	A6CON2		28 to 24AWG			
	A6CON4		22AWG			
Differential driver common terminal	—	—	22 to 16AWG	Stranded/solid		

Le tableau ci-dessous indique quels connecteurs 40 broches sont à utiliser avec quelle borne commune de circuit d'attaque différentiel.
Pour le câblage, utiliser les fils et couples de serrage prescrits.
Si on utilise des bornes sans soudure, utiliser les bornes sans soudure appropriées et, pour le montage, utiliser l'outil recommandé par le fabricant de ces bornes.

Connecteur 40-broches Mitsubishi /borne commune circuit d'attaque différentiel			Fil			
	Modèle	Couple de serrage	Diamètre	Type	Matériau	Gamme de température
Connecteur 40-broches Mitsubishi	A6CON1	0,20 à 0,29N•m	22AWG	Torsadé	Cuivre	75°C ou plus
	A6CON2		28 à 24AWG			
	A6CON4		22AWG			
Borne commune circuit d'attaque différentiel	—	—	22 à 16AWG	Torsadé/ monobrin		

■ 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.
Also refer to the LCPU 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.
Toutes les unités de la série MELSEC-L doivent être connectées en un système de connexion par rails DIN.
Pour le détail de l'installation, voir aussi le "LCPU User's Manual (Hardware Design, Maintenance and Inspection)" (le Manuel de l'utilisateur LCPU (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.