# Connection Conversion Board for SMC CCB-SMC2 User's Guide CONTEC CO.,LTD.

Thank you for purchasing the CONTEC product.

This product is a conversion terminal capable of easily and appropriately connecting a CONTEC motion control board, motor driver unit and limit sensor with 0.8mm pitch 100pin connector to external devices such as a motor driver unit, limit sensor, and power supply. This product requires a separately priced option cable for connection to the control board.

### **Features**

Capable of connecting up to four motor driver units

- The conversion terminal can accept up to four servomotor or stepping motor driver units.
- 37pin D-SUB connector which can be easily machined and manufactured.
- Optimized in pin-signal assignment for easier connection to the controller connector of the motor driver unit.

Capable of connecting up to four limit sensors

- The conversion terminal can accept up to four limit sensors.
- Providing 9pin D-SUB connectors each with a power output, capable of accepting a sensor which requires power supply.

Equipped with terminal-screw-type power supply pins

Capable of mounting on the DIN rail by using the option

 The DIN rail adapter "DIN-ADP1" is available as an option, which allows the CCB-SMC2 to be mounted on a 35mm DIN rail.

### **Product Configuration List**

The product consists of the items listed below. Check, with the following list, that your package is complete. If you discover damaged or missing items, contact your retailer.

- Conversion terminal ...1 - User's guide (this booklet) ...1

Warranty Certificate ...1 - Serial number label ...1

### ↑ CAUTION

The option cable is bundled neither with this product nor the board to connect. Since the required option cable depends on each board, check it with the manual for the board or at the CONTEC's web site to purchase the right one.



# **External dimensions**

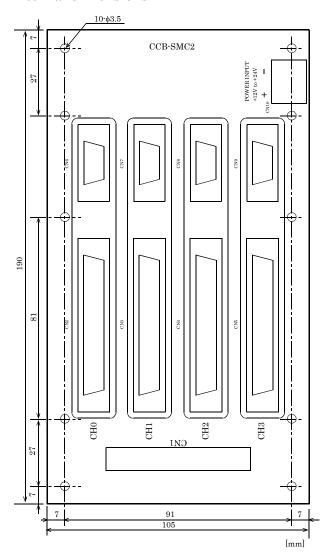


Figure 1 External dimensions

### **System configuration**

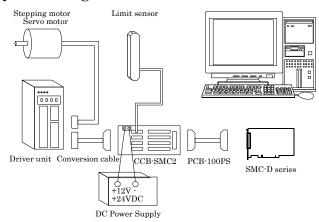


Figure 2 System configuration

### **CCB-SMC2** Connection Cable (Option)

This product is not bundled with a board connection cable. Purchase the appropriate cable depending on the application, selected from among the optional cables listed below.

Shielded Cable With Two 100pin Connector

: PCB100PS-0.5 (0.5m)

: PCB100PS-1.5 (1.5m) : PCB100PS-3 (3m)

: PCB100PS-5 (5m)

\* Check the CONTEC's Web site for more information on these options.

### **Connector Pin Assignment**

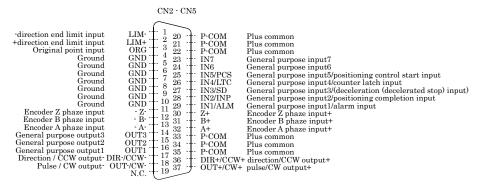


Figure 3 Connector Pin Assignment (CN2 - CN5)

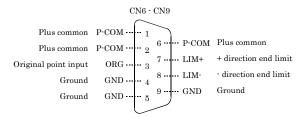


Figure 4 Connector Pin Assignment (CN6 - CN9)

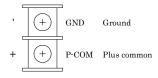


Figure 5 Connector Pin Assignment (CN10)

### **Connection Examples**

Example of Connection to driver unit ( $\Sigma$  II Series) for Servo motor

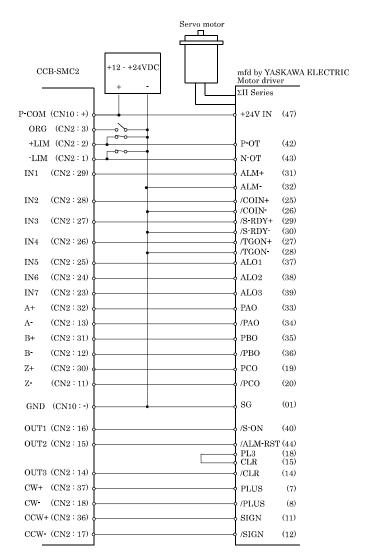


Figure 6 Connection Examples

# **Specification**

Table 1. Basic specification

Item	Specification
Compatible DIN rail	35mm width
Operating condition	0 - 50°C, 10 - 90%RH (No condensation)
Weight	250g

Table 2. Interface connector (CN1) specification

Item	Specification
	100pin 0.8mm pitch connector [F (female) type] HDRA-EC100FDT+ [HONDA TSUSHIN KOGYO CO., LTD.] or equivalence to it
Compatible connector	100pin 0.8mm pitch connector [M (male) type] HDRA-E100LPWC [HONDA TSUSHIN KOGYO CO., LTD.] or equivalence to it

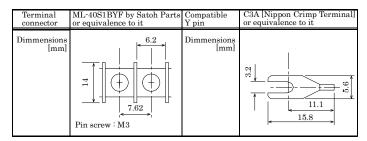
Table 3. Interface connector (CN2 - CN5) specification

Item	Specification
Used connector	37pin D-SUB connector [F (female) type] DC-37S-T-NR [JAE] or equivalence to it Locknut UNC #4-40 (inch screw threads)
	37pin D-SUB connector [M (male) type] DC-37P-N [JAE] or equivalence to it

Table 4. Interface connector (CN6 - CN9) specification

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Item	Specification
Used connector	9pin D·SUB connector [F (female) type] DE·9S·T·NR [JAE] or equivalence to it Locknut UNC #4·40 (inch screw threads)
	9pin D-SUB connector [M (male) type] DE-9PF-N [JAE] or equivalence to it

Table 5. Power connector (CN10) specification



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