



ELECYLINDER

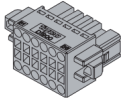
EC

Quick Start Guide Fourth Edition

Please refer to the Instruction Manual (ME3766 ,ME3778,ME3779) for details of handling.

STEP
1

Checking the Necessary Equipment

ELECYLINDER Quantity: 1 Model: EC  ☐	Power - I/O Cable Quantity: 1 Model: CB-EC-PWBIO***-RB  * Select by model ☐	Power - I/O Connector Quantity: 1 Model: 1-1871940-6  * Select by model ☐
24VDC Power Supply Quantity: 1 Model: PSA-24*  *Commercially available 24V power supply can also be used. ☐	Teaching Pendant Quantity: 1 Model: TB-03-**-*  It's possible to connect TB-02, too. * Sold separately ☐	PC Compatible Software Quantity: 1 Model: RCM-101-USB  * Sold separately ☐

* Refer to the instruction manual for the components constructing the EC large slider type.

STEP
2

Installing the ELECYLINDER

Prepare the screws, nuts and tools required for installation.

Precautions for Installation

- Install with proper length of screws and tightening torque.
- Do not apply external force to the ELECYLINDER body during installation.
- When installing an external guide, please perform the centering adjustment.

STEP
3

Wiring

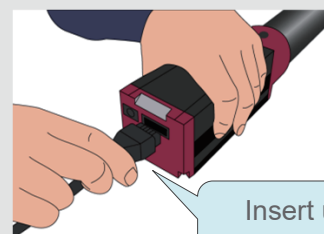
○ Connecting the Cable

Items to Prepare

ELECYLINDER/Power - I/O cable

Connect the power - I/O cable to the ELECYLINDER.
Push in the connector until it clicks into place.

Connection Diagram



Insert until it clicks

Connecting to 24VDC Power Supply

Items to Prepare

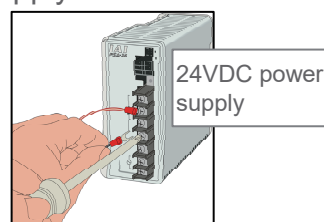
ELECYLINDER/24VDC power supply
(to be prepared by user)

Connect the cable wiring to the 24VDC power supply.

Wire color	Symbol	Function
BK	0V	Ground
RD	24V	Power supply input (24VDC $\pm$ 10%, 4.2A at peak)
LBL	24V (Control)	* Connect it for TMD2 Type. Control power supply input (24VDC $\pm$ 10%, 0.3A)

* Wire diameter: KIV 0.75mm² (AWG18)

* Refer to the instruction manual for the connectivity of the EC large slider type.



Connecting to PLC

Items to Prepare

ELECYLINDER/PLC (to be prepared by user)

Connect the cable wiring to the PLC.

Connection Diagram

Power · I/O cable Terminal

Wire the processed terminal according to the specifications of the PLC.

For the specification with brake, when installing a forcible brake release switch, input to brown wiring (signal abbreviation: BKRLS). Power capacity of 24VDC $\pm$ 10%/200mA or higher is required.

Category	Wire color	Signal abbreviation	Signal name
Input	OR	ST0	Backward
	YW	ST1	Forward
	GN	RES	Alarm cancel
Output	BL	LS0	Backward movement completed
	PL	LS1	Forward movement completed
	GY	ALM	Alarm

* Wire diameter: KIV 0.12mm² (AWG26)

STEP
4

Operation

Operation with the Teaching Pendant

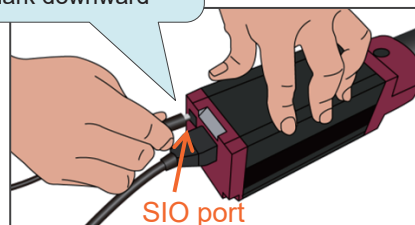
Items to Prepare

ELECYLINDER/Teaching pendant

- 1 Connect the teaching pendant/TB-03.
Insert the round connector of TB-03 to the SIO port of the ELECYLINDER.



Insert the round connector with arrow mark downward



- 2 Turn ON the 24VDC power supply to start up the menu screen, and then touch [Simple Data Setting].

Action

The screen will switch to the Simple Data Setting window.



3

Performing home return operation

Touch the [Homing] button.

Action

After home return operation is complete, the [F.End] and [B.End] buttons will be displayed.



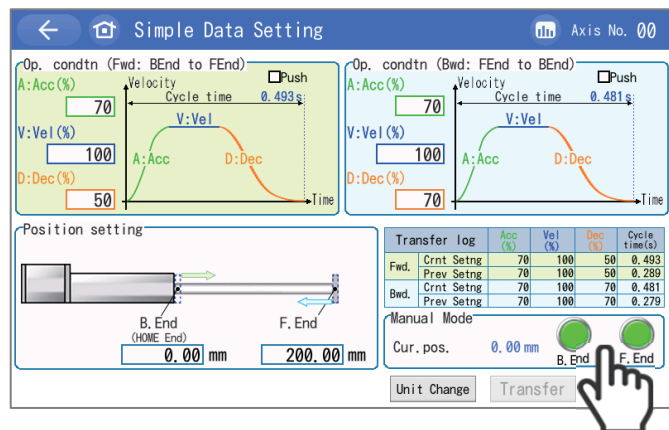
4

Moving to the forward/backward ends

Touch the [F.End] (forward) or [B.End] (backward) button.

Action

The ELECYLINDER will move to the forward or backward end.

STEP
5

Adjustment

Adjusting the Stop Position

Items to Prepare

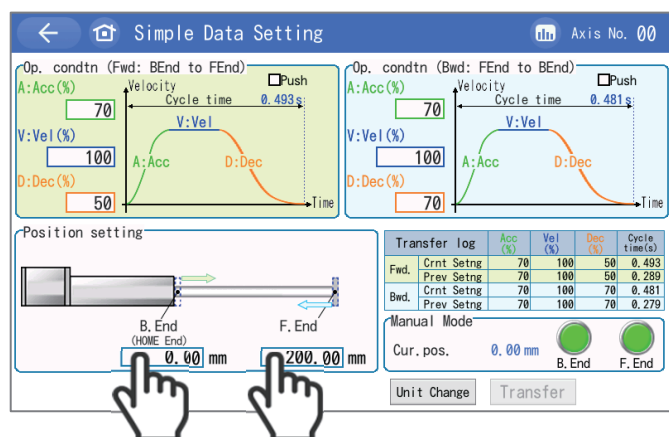
ELECYLINDER/Teaching pendant

1

Touch the position you want to adjust.

Action

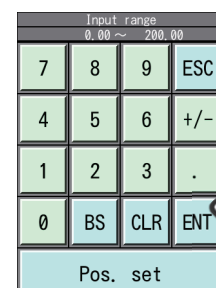
Ten Key window will open.



2

After setting the numerical value, touch the [ENT] key. After returning to the "Simple Data Setting" window, touch the [Transfer] key.

The adjustment completes!

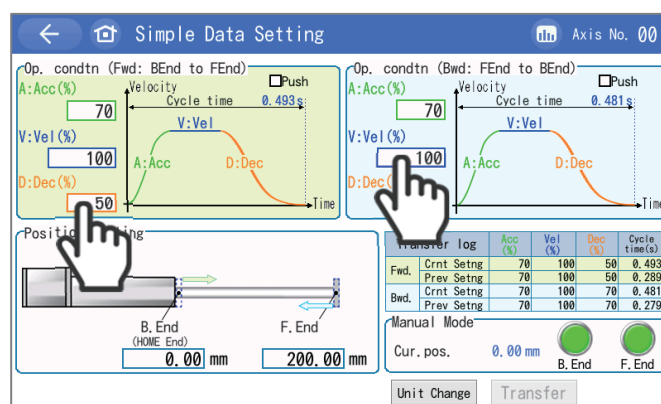


○ Adjustment of Operating Conditions (AVD)

1 Touch the condition you want to adjust.

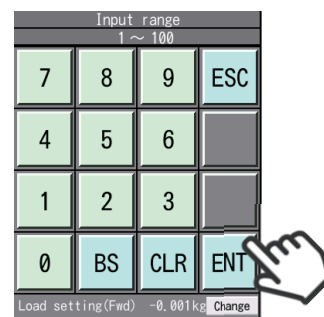
Action

Ten Key window will open.



2 After setting the numerical value, touch the [ENT] key.
After returning to the "Simple Data Setting" window, touch the [Transfer] key.

The adjustment completes!



STEP
6

Alarm Countermeasures

○ Alarm List

Alarm group	Name	Content of alarm and typical countermeasures	
A	Overload alarm	[Content] [Countermeasure]	Rod or slider of ELECYLINDER stopped abnormally while moving to the target position. Make sure that there are no obstructions or obstacles in the movement range.
B	Motor abnormality alarm	[Content] [Countermeasure]	Motor abnormality occurred. Replace the motor.
C	Controller abnormality alarm	[Content] [Countermeasure]	Controller abnormality occurred. Replace the controller.
D	Controller-encoder abnormality alarm	[Content] [Countermeasure]	An abnormality occurred between the controller and encoder. Turn the power off and then on again. If the unit does not recover even so, replace the motor or controller.
E	Power supply voltage/Power supply capacity error alarm	[Content] [Countermeasure]	Controller abnormality occurred. Check the voltage and capacity of the supplied power for any abnormality.
Warning	Maintenance warning	[Content] [Countermeasure]	Reached the "maintenance period" set by user. Perform maintenance for ELECYLINDER.