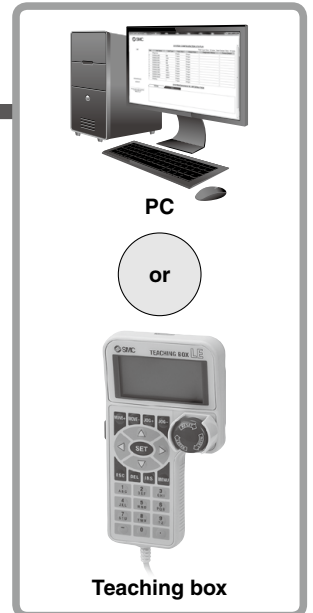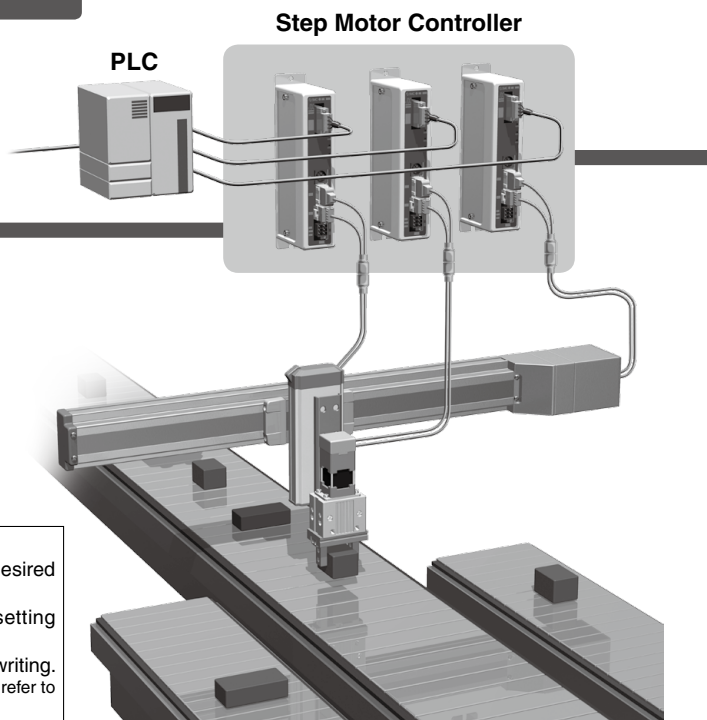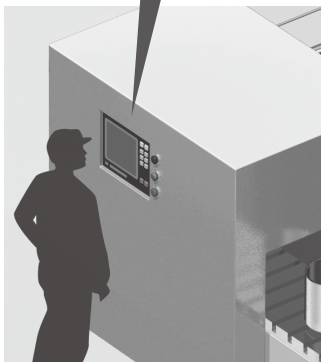# Step Motor Controller with Step Data Teaching Function

■ **Neither a** PC **nor a** teaching box **is required for adjusting the position of step data.**

■ **With a JOG function for parallel input signals**

The position of step data can be adjusted by touch panel.

Step Motor Controller

PLC

PC

or

Teaching box

For the setting of other step data items and parameters

[Setting Procedure]
• Instruct the controller to move to the desired stopping position by JOG signal.
• Select the desired step number by setting the signals from IN0 to 4.
• Set the write signal "WRST" to ON for writing.
∗ For further details on the setting procedure, refer to the operation manual.

How to Order

LE C P 6 N ☐☐ ☐ – ☐ – XB120

Controller ●

Compatible motor ●

P	Step motor (Servo/24 VDC)

Parallel input/output ●

N	NPN
P	PNP

I/O cable length [m]

Nil	Without cable
1	1.5
3	3
5	5

●**With step data teaching function (Step data: 32 points)**

●**Actuator part number**

Without cable specifications and actuator options
Example: Enter "**LEFS16A-400**" for the LEFS16A-400B-R16N1.

●**Option**

Nil	Screw mounting
D∗1	DIN rail mounting

∗1 The DIN rail is not included. It must be ordered separately.
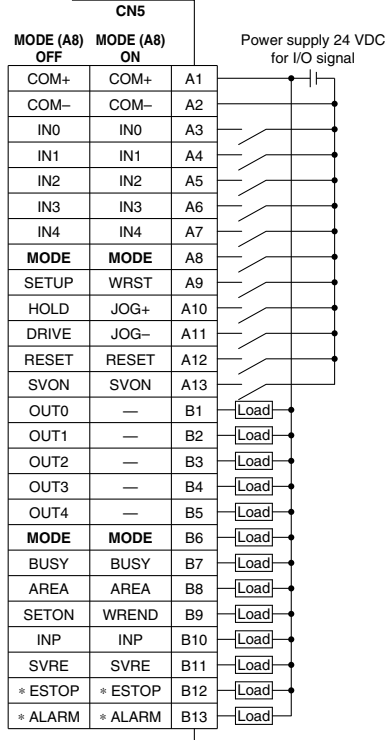
LECP6-XB120

⊘SMC

18-E695

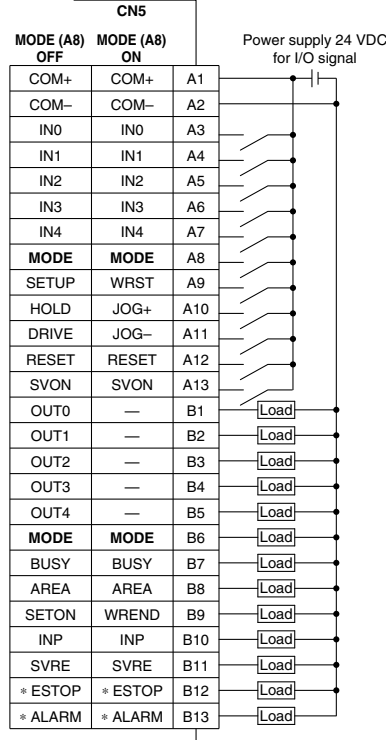# LECP6-XB120

Wiring Example

| Parallel I/O connector: CN5 |

∗ When you connect a PLC to the CN5 parallel I/O connector, use the I/O cable (LEC-CN5-□).
∗ The wiring changes depending on the type of parallel I/O (NPN or PNP).

Wiring diagram

LECP6N□□ (NPN)-XB120

LECP6P□□ (PNP)-XB120

Input Signal

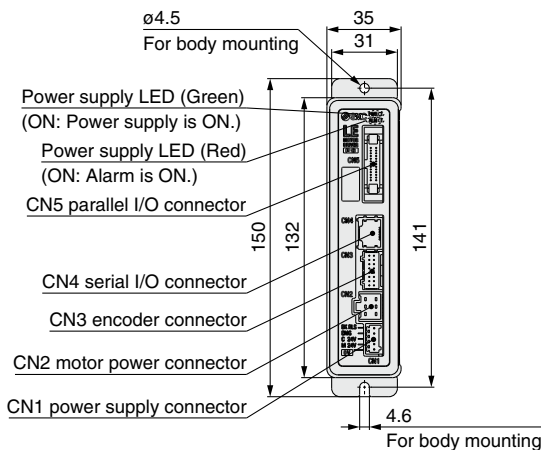| Name	Details
COM+	Connects the power supply 24 V for input/output signal
COM–	Connects the power supply 0 V for input/output signal
IN0 to IN4 (Step data: 32 points)	Step data specified bit no. (Input is instructed by combining IN0 to 4.)
SETUP	Instruction to return to origin
HOLD	Temporarily stops operation
DRIVE	Instruction to drive
RESET	Resets alarm and interrupts operation
SVON	Servo ON instruction

Output Signal

Name	Details
OUT0 to OUT4	Outputs the step data no. during operation
BUSY	Outputs when the actuator is moving
AREA	Outputs within the step data area output setting range
SETON	Outputs when returning to origin
INP	Outputs when target position or target force is reached (Turns on when the positioning or pushing is completed.)
SVRE	Outputs when servo is ON
∗ ESTOP[1]	OFF when EMG stop is instructed
∗ ALARM[1]	OFF when alarm is generated

∗1 Negative-logic (N.C.) circuit signal

Dimensions

a) Screw mounting (LECP6□□-XB120)

ø4.5
For body mounting

Power supply LED (Green)
(ON: Power supply is ON.)

Power supply LED (Red)
(ON: Alarm is ON.)

CN5 parallel I/O connector

CN4 serial I/O connector

CN3 encoder connector

CN2 motor power connector

CN1 power supply connector

For body mounting

b) DIN rail mounting (LECP6□□D-XB120)
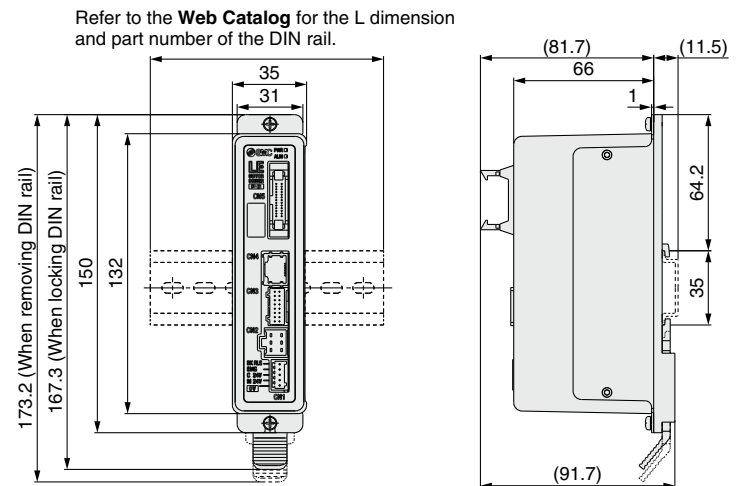
Refer to the **Web Catalog** for the L dimension and part number of the DIN rail.

173.2 (When removing DIN rail)
167.3 (When locking DIN rail)

| ⚠ **Safety Instructions** | Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use. |