

SMC

Series LECP2

Controller Details



No.	Display	Description	Details			
1	PWR	Power supply LED	Power supply ON/Servo ON : Green turns on. Power supply ON/Servo OFF: Green flashes.			
2	ALM	Alarm LED	With alarm: Red turns on.Parameter setting: Red flashes.			
3	—	Cover	Change and protection of the mode switch (Close the cover after changing switch.)			
4	4 FG Frame ground (Tighten the screw with the washer wh mounting the controller. Connect the ground wire.)					
(5)	—	Mode switch	Switch the mode between manual and auto.			
6	_	7-segment LED	Stop position, the value set by $(\ensuremath{\$})$ and alarm information are displayed.			
\bigcirc	SET Set button Decide the settings or drive operation in manual mod		Decide the settings or drive operation in manual mode.			
8	_	Position selecting switch	Assign the position to drive (1 to 14), and the origin position (15).			
9	ΜΑΝΠΑΙ	Manual forward button	Perform forward jog and inching.			
10	MANOAL	Manual reverse button	Perform reverse jog and inching.			
1	SPEED	Forward speed switch	16 forward speeds are available.			
(12)	SFEED	Reverse speed switch	16 reverse speeds are available.			
(13)		Forward acceleration switch	16 forward acceleration steps are available.			
14)	ACCEL	Reverse acceleration switch	16 reverse acceleration steps are available.			
(15)	CN1	Power supply connector	Connect the power supply cable.			
(16)	CN2	Motor connector	Connect the motor connector.			
17	CN3 Encoder connector Connect the encoder connector.		Connect the encoder connector.			
(18)	CN4	I/O connector	Connect the I/O cable			

How to Mount

Controller mounting shown below



2. Grounding

Tighten the screw with the washer when mounting the ground wire as shown below.





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Dimensions



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Wiring Example 1

 \ast When you connect a CN1 power supply connector, use the power supply cable (LEC-CK1-1). Power Supply Connector: CN1 * Power supply cable (LEC-CK1-1) is an accessory.

CN1 Power Supply Connector Terminal for LECP2

Terminal name Cable color		Function	Details		
0V Blue Co		Common supply (–)	M 24V terminal/C 24V terminal/BK RLS terminal are common (–).		
M 24V	White	Motor power supply (+)	Motor power supply (+) supplied to the controller		
C 24V	Brown	Control power supply (+)	Control power supply (+) supplied to the controller		
DV DI C	Plack	l ook roloooo (u)	Input () for releasing the look		

BK RLS Black Lock release (+) Input (+) for releasing the lock

Wiring Example 2

* When you connect a PLC, etc., to the CN4 parallel I/O connector, use the I/O cable (LEC-CK4-D). Parallel I/O Connector: CN4 * The wiring should be changed depending on the type of the parallel I/O (NPN or PNP).

NPN



 CN4	
COM+	1
COM-	2
OUT0	3
OUT1	4
OUT2	5
OUT3	6
BUSY	7
ALARM	8

Power supply cable for LECP2 (LEC-CK1-1)

	Power supply 24 VDC		
	for I/O signal		
1	╞────╇─┤┝─┐		
2	<u>├</u>		
3	Load		
4	Load		
5	Load		
6	Load		
7	Load		
8	Load		
9			
10	⊢́•		
11	F		
12	⊢́•		
13	⊢́•		
14	F		
	1 2 3 4 5 6 7 8 9 10 11 11 12 13 14		

Input Signal

Name	Details					
COM+	Conne	Connects the power supply 24 V for input/output signal				
COM-	Conne	Connects the power supply 0 V for input/output signal				
	• Instru Ex	Instruction to drive (input as a combination of IN0 to IN3) Example - (instruction to drive for position no. 5)				
		IN3	IN2	IN1	IN0	
INIO to INI2		OFF	ON	OFF	ON	
	Instruction to return to origin After the power is turned ON, first turn on IN0 or IN1. Return to origin using IN0: Return to origin by moving to the extended end. Return to origin using IN1: Return to origin by moving to the motor end.					
RESET	Alarm reset and operation interruption During operation: deceleration stop from position at which signal is input (servo ON maintained) While alarm is active: alarm reset					
STOP	Instruction to stop (after maximum deceleration stop, servo OFF)					

Input Signal [IN0 - IN3] Position Number Chart O: OFF O: ON

Position number	IN3	IN2	IN1	IN0
1 (End side)	0	0	0	
2 (Motor side)	0	0	•	0
3	0	0		\bullet
4	0		0	0
5	0		0	
6	0	•	•	0
7	0		•	
8	•	0	0	0
9	•	0	0	
10 (A)	•	0	•	0
11 (B)	•	0	•	
12 (C)	•		0	0
13 (D)	•	•	0	
14 (E)	•	•	•	0

Output Signal

Name	Details				
	Positioning completion (input as a combination of OUT0 to OUT3) Example - (positioning completion for position no. 3)				
		OUT3	OUT2	OUT1	OUT0
OUT0 to OUT3	3	OFF	OFF	ON	ON
	Return to origin completion Completion of return to origin using IN0: Only OUT0 is ON. Completion of return to origin using IN1: Only OUT1 is ON.				
BUSY	Outputs when the actuator is moving				
*ALARM Note)	Not output when alarm is active or servo OFF				

Note) Signal of negative-logic circuit (N.C.)

Output Signal [OUT0 - OUT3] Position Number Chart O: OFF O: ON

Position number	OUT3	OUT2	OUT1	OUT0
1 (End side)	0	0	0	
2 (Motor side)	0	0	•	0
3	0	0	•	•
4	0		0	0
5	0		0	
6	0	•	•	0
7	0		•	
8	•	0	0	0
9	•	0	0	•
10 (A)	•	0	•	0
11 (B)	•	0	•	
12 (C)	•	•	0	0
13 (D)	•	•	0	•
14 (E)	•	•	•	0

Signal Timing

(1) Positioning Operation [Driving to the stroke end]



(2) Positioning Operation [Driving to the intermediate position]



as the input IN0-3 when positioning is completed.

(3) Cut-off Stop (Reset Stop)



(4) Stop by the STOP Signal



(5) Alarm Reset



"*ALARM" is expressed as negative-logic circuit.

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Options: Actuator Cable



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Motorless

LAT3