

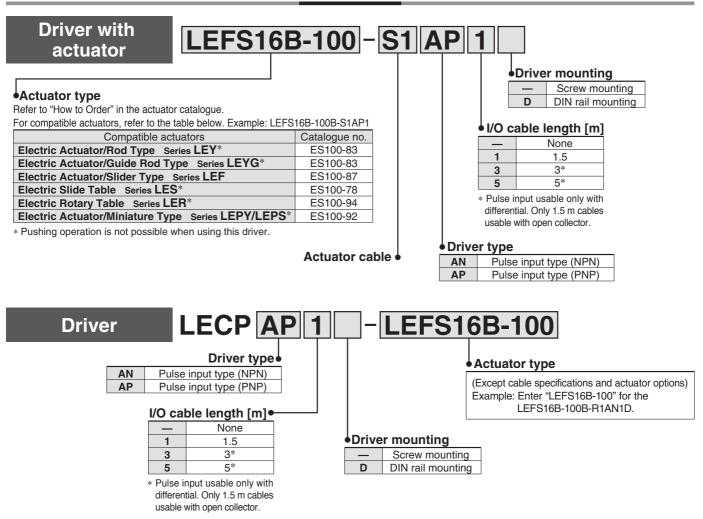
Compatible actuators		Catalogue no.	Compatible actuators	Catalogue no.
Electric Actuator/ Rod Type Series LEY		ES100-83	Electric Slide Table Series LES	ES100-78
Electric Actuator/ Guide Rod Type Series LEYG		ES100-83	Electric Rotary Table Series LER	ES100-94
Electric Actuator/ Slider Type Series LEF	Contraction of the second seco	ES100-87	Electric Actuator/ Miniature Type Series LEPY/LEPS	ES100-92

**SMC** 

# Series LECPA

How to Order

RoHS



## Specifications

Item	LECPA	
Compatible motor	Step motor (Servo/24 VDC)	
	Power voltage: 24 VDC ±10%	
Power supply Note 1)	Maximum current consumption: 3 A (Peak 5 A) Note 2)	
	[Including motor drive power, control power, stop, lock release]	
Parallel input	5 inputs (Except photo-coupler isolation, pulse input terminal, COM terminal)	
Parallel output	9 outputs (Photo-coupler isolation)	
Pulse signal input	Maximum frequency: 60 kpps (Open collector), 200 kpps (Differential)	
r dise signal input	Input method: 1 pulse mode (Pulse input in direction), 2 pulse mode (Pulse input in differing directions)	
Compatible encoder	Incremental A/B phase (Encoder resolution: 800 pulse/rotation)	
Serial communication	RS485 (Modbus protocol compliant)	
Memory	EEPROM	
LED indicator	LED (Green/Red) one of each	
Lock control	Forced-lock release terminal Note 3)	
Cable length [m]	I/O cable: 1.5 or less (Open collector), 5 or less (Differential)	
	Actuator cable: 20 or less	
Cooling system	Natural air cooling	
Operating temperature range [°C]	0 to 40 (No freezing)	
Operating humidity range [%RH]	90 or less (No condensation)	
Storage temperature range [°C] -10 to 60 (No freezing)		
Storage humidity range [%RH]	90 or less (No condensation)	
Insulation resistance [M $\Omega$ ]	Between the housing (radiation fin) and FG terminal	
	50 (500 VDC)	
Weight [g]	120 (Screw mounting)	
Weight [g]	140 (DIN rail mounting)	

Note 1) Do not use the power supply of "inrush current prevention type" for the driver power supply.

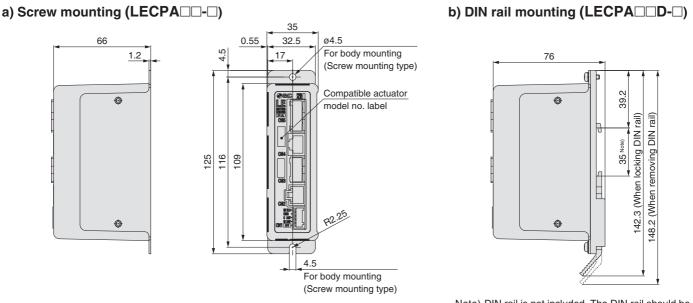
Note 2) The power consumption changes depending on the actuator model. Refer to the specifications of actuator for more details.

Note 3) Applicable to non-magnetizing lock.



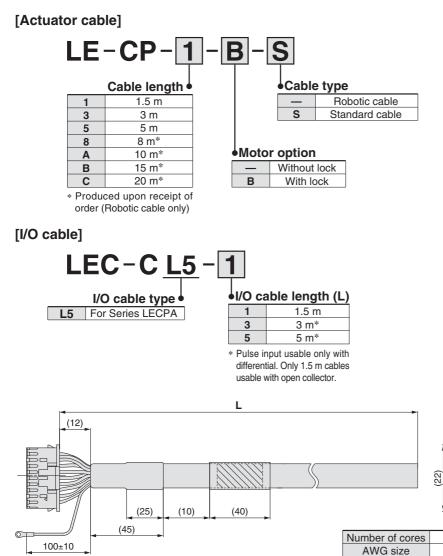
## Series LECPA

### Dimensions



Note) DIN rail is not included. The DIN rail should be prepared by the customer or ordered separately [Part no.: AXT100-DR-[] (refer to the catalogue)].

### Option



Pin no.	Insulation Colour	Dot mark	Dot Colour
1	Light brown		Black
2	Light brown		Red
3	Yellow		Black
4	Yellow		Red
5	Light green		Black
6	Light green		Red
7	Grey		Black
8	Grey		Red
9	White		Black
10	White		Red
11	Light brown		Black
12	Light brown		Red
13	Yellow		Black
14	Yellow		Red
15	Light green		Black
16	Light green		Red
17	Grey		Black
18	Grey		Red
19	White		Black
20	White		Red
Round terminal 0.5-5	Green		

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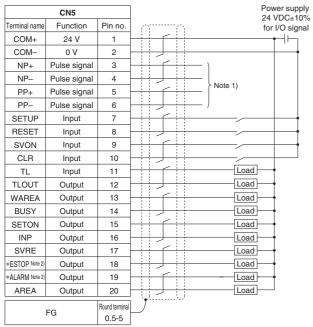
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# Series LECPA

## Wiring Diagram

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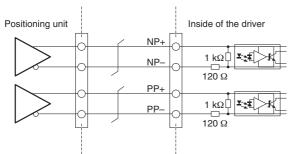
Note 1) For pulse signal wiring method, refer to "Detailed Pulse Signal Wiring". Note 2) Signal of negative-logic circuit ON (N.C.)

#### 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	
SETUP	Instruction to return to the original position	
RESET	Alarm reset	
SVON	Servo ON instruction	
CLR	Deviation reset	
TL	Pushing operation (thrust limiting function)	

## **Detailed Pulse Signal Wiring**

• Pulse signal output of positioning unit is differential output



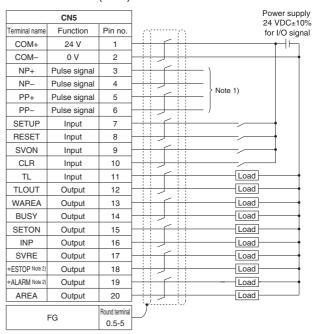
Note 4) Connect the current limit resistor R in series to correspond to the pulse signal voltage.

Pulse signal power	Current limit resistor
supply voltage	R specification
24 VDC±10%	3.3 kΩ±5% (0.5 W or more)
5 VDC±5%	390 Ω±5% (0.1 W or more)

## **SMC** Corporation

SMC CORPORATION Akihabara UDX 15F, 4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021, JAPAN Phone: 03-5207-8249 FAX: 03-5298-5362

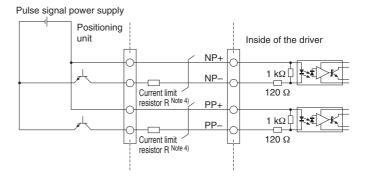
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#### **Output Signal**

output Signal		
Name	Details	
BUSY	Outputs when the actuator is operating	
SETON	Outputs when returning to the original position	
INP	Outputs when target position is reached	
SVRE	Outputs when servo is on	
+ESTOP Note 3)	Not output when EMG stop is instructed	
+ALARM Note 3)	Not output when alarm is generated	
AREA	Outputs within the area output setting range	
WAREA	Outputs within W-AREA output setting range	
TLOUT	Pushing operation (thrust limiting function)	

#### • Pulse signal output of positioning unit is open collector output



European Marketing Centre (EMC) Zuazobidea 14, 01015 Vitoria Tel: +34 945-184 100 Fax: +34 945-184 124 URL http://www.smc.eu