

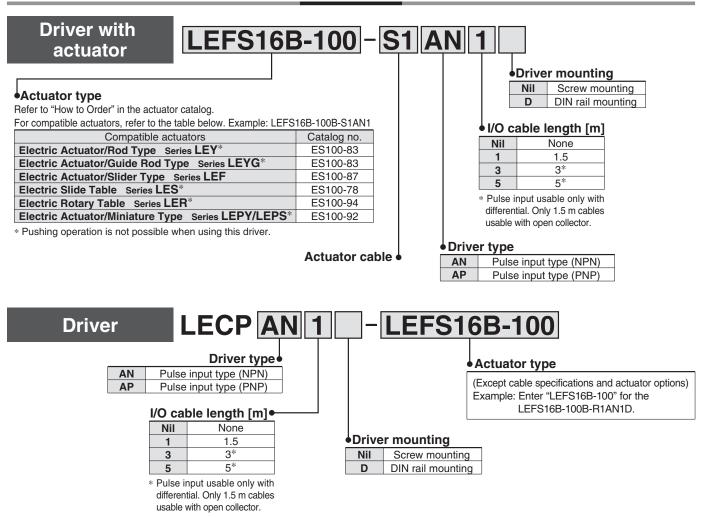
The power consumption changes depending on the actuator model. Refer to the specifications of actuator for more details.

Compa	tible actuators	Catalog no.	Compatible actuators	Catalog no.
Electric Actuator/ Rod Type Series LEY		- ES100-83	Electric Slide Table Series LES	ES100-78
Electric Actuator/ Guide Rod Type Series LEYG			Electric Rotary Table Series LER	ES100-94
Electric Actuator/ Slider Type Series LEF		ES100-87	Electric Actuator/ Miniature Type Series LEPY/LEPS	ES100-92
SNC .				

# 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	4 inputs (Except photo-coupler isolation, pulse input terminal, COM terminal)	
Parallel output	8 outputs (Photo-coupler isolation)	
Pulse signal input	Maximum frequency: 60 kpps (Open collector), 200 kpps (Differential)	
ruise 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 [8]	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.



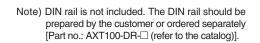
39.2

48.2 (When removing DIN rail) 142.3 (When locking DIN rail) 35 Note)

## Dimensions

#### a) Screw mounting (LECPA□□-□) 35 0.55 ø4.5 32.5 66 4.5 For body mounting 1.2 17 76 (Screw mounting type) Compatible actuator 0 0 model no. label 116 109 125 Þ R2.25 ۲ 0

### b) DIN rail mounting (LECPA D-D)

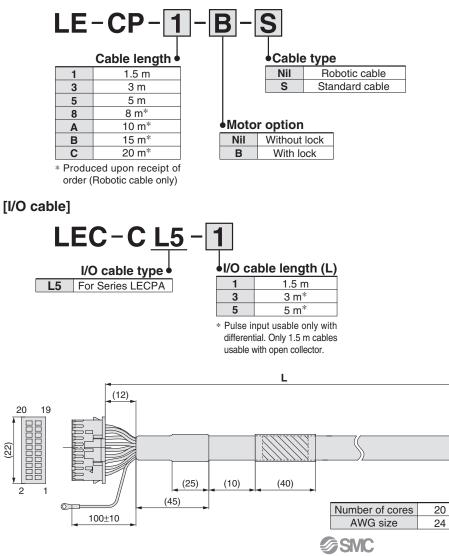


## Option

## [Actuator cable]

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For body mounting (Screw mounting type)

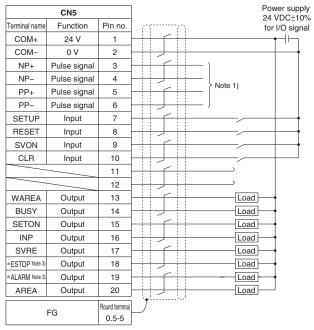


Pin no.	Insulation color	Dot mark	Det color
1	Light brown		Black
2	Light brown		Red
3	Yellow		Black
4	Yellow		Red
5	Light green		Black
6	Light green		Red
7	Gray		Black
8	Gray		Red
9	White		Black
10	White		Red
11	Light brown		Black
12	Light brown		Red
13	Yellow		Black
14	Yellow		Red
15	Light green		Black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

# Series LECPA

## Wiring Diagram

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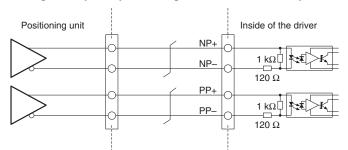
Note 1) For pulse signal wiring method, refer to "Detailed Pulse Signal Wiring". Note 2) Do not form connection to pins indicated with \_\_\_\_\_. Note 3) Signal of negative-logic circuit ON (N.C.)

#### 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		

## Detailed Pulse Signal Wiring

• Pulse signal output of positioning unit is differential output

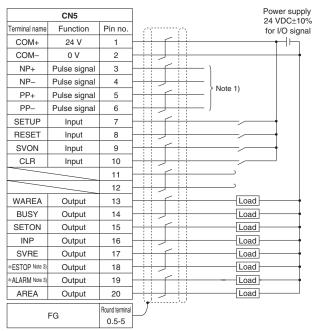


#### Pulse signal output of positioning unit is open collector output

Pulse signal power supply Positioning unit Inside of the driver NP+ **\***\* 1 kΩ 🗍 NP Current limit 120 Ω resistor R Note 4) PP+ 1 kΩ[] **‡≾** PP. С Current limit resistor R Note 4) 120 Ω

**SMC** 

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### 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		

## 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)