

Electric Actuator Rod Type

Secondary Battery Compatible

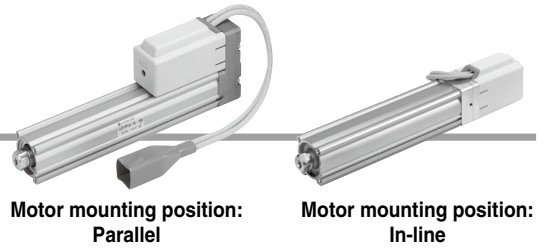


25A-LEY Series LEY16, 25, 32, 40

RoHS

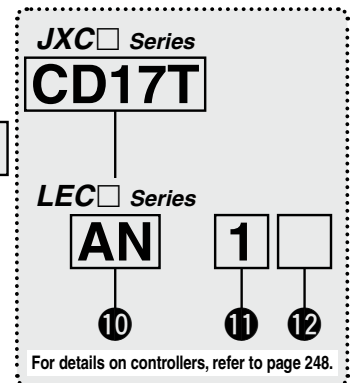
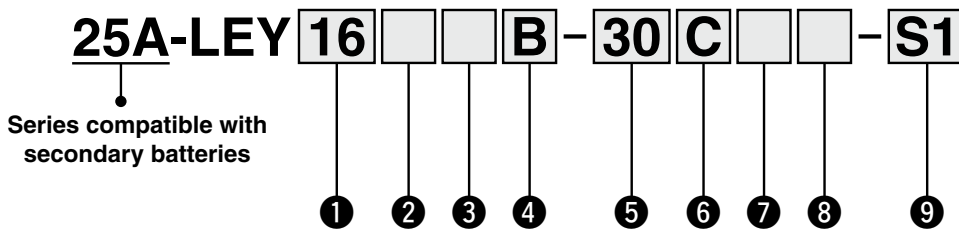
Refer to the **Web Catalog** for model selection.

How to Order



Motor mounting position:
Parallel

Motor mounting position:
In-line



1 Size

16
25
32
40

2 Motor mounting position

Nil	Top side parallel
R	Right side parallel
L	Left side parallel
D	In-line

3 Motor type

Symbol	Type	Applicable size			Compatible controllers/ drivers
		LEY16	LEY25	LEY32/40	
Nil	Step motor (Servo/24 VDC)	●	●	●	JXC51 JXCD1 JXCPF JXC61 JXCL1 JXCLF JXCE1 JXCM1 JXC91 JXCEF LECP1 JXCP1 JXC9F LECPA
A	Servo motor (24 VDC)	●	●	—	LECA6

4 Lead [mm]

Symbol	LEY16	LEY25	LEY32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

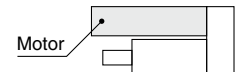
5 Stroke [mm]

30	30
to	to
500	500

* For details, refer to the applicable stroke table below.

6 Motor option*2

C	With motor cover
W	With lock/motor cover



7 Rod end thread

Nil	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

8 Mounting*5

Symbol	Type	Motor mounting position	
		Parallel	In-line
Nil	Ends tapped/Body bottom tapped*6	●	●
L	Foot	●	—
F	Rod flange*6	●*8	●
G	Head flange*6	●*9	—
D	Double clevis*7	●	—

9 Actuator cable type/length*11

Standard cable [m]		Robotic cable [m]			
Symbol	Length	Symbol	Length	Symbol	Length
Nil	None	R1	1.5	RA	10*10
S1	1.5*12	R3	3	RB	15*10
S3	3*12	R5	5	RC	20*10
S5	5*12	R8	8*10		

Mounting Bracket Part Nos. for the 25A- Series*4

Applicable size	Foot*3	Flange	Double clevis
16	25-LEY-L016	25-LEY-F016	25-LEY-D016
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32, 40	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

Solid state auto switches should be ordered separately. For details on auto switches, refer to page 262.

Applicable auto switches

D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Applicable Stroke Table*1

Model	Stroke [mm]	Stroke [mm]										Manufacturable stroke range	
		30	50	100	150	200	250	300	350	400	450		500
25A-LEY16		●	●	●	●	●	●	●	—	—	—	—	10 to 300
25A-LEY25		●	●	●	●	●	●	●	●	—	—	—	15 to 400
25A-LEY32/40		●	●	●	●	●	●	●	●	●	●	●	20 to 500

●: Standard

* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the **Web Catalog**.

Electric Actuator Rod Type **25A-LEY Series**

Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Secondary Battery Compatible

JXC Series (For details, refer to page 249.)

10 Controller

Nil	Without controller
C□1□□	With controller

C D 1 7 T

Interface (Communication protocol/Input/Output)

Symbol	Type	Number of axes, Special specification	
		Standard	With STO sub-function
5	Parallel input (NPN)	●	
6	Parallel input (PNP)	●	
E	EtherCAT	●	●
9	EtherNet/IP™	●	●
P	PROFINET	●	●
D	DeviceNet®	●	
L	IO-Link	●	●
M	CC-Link	●	

Mounting

7	Screw mounting
8*17	DIN rail

Number of axes, Special specification

Symbol	Number of axes	Specification
1	Single axis	Standard
F	Single axis	With STO sub-function

Communication plug connector, I/O cable*18

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet®
T	T-branch type communication plug connector	CC-Link Ver. 1.10
1	I/O cable (1.5 m)	Parallel input (NPN) Parallel input (PNP)
3	I/O cable (3 m)	
5	I/O cable (5 m)	

LEC Series (For details, refer to page 249.)

A N 1 □

10 11 12

10 Controller/Driver type*12

Nil	Without controller/driver	
6N	LECA6	NPN
6P	(Step data input type)	PNP
1N	LECP1*13	NPN
1P	(Programless type)	PNP
AN	LECPA*13 *14	NPN
AP	(Pulse input type)	PNP

11 I/O cable length*15

Nil	Without cable (Without communication plug connector)
1	1.5 m
3	3 m*16
5	5 m*16

12 Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*17

- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 When "With lock" or "With lock/motor cover" is selected for the top/right/left side parallel motor types, the motor body will stick out from the end of the body for size 16/40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
- *3 When ordering foot brackets, order 2 pieces per actuator.
- *4 Parts included with each type of bracket are as follows.
Foot, Flange: Body mounting bolt, Double clevis: Clevis pin, Type C retaining ring for axis, Body mounting bolt
- *5 The mounting bracket is shipped together with the product but does not come assembled.
- *6 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.
·LEY25: 200 mm or less ·LEY32/40: 100 mm or less
- *7 For the mounting of the double clevis type, use the actuator within the following stroke range.
·LEY16: 100 mm or less ·LEY25: 200 mm or less ·LEY32/40: 200 mm or less
- *8 The rod flange type is not available for the LEY16/40 with a 30 mm stroke and motor option "With lock," "With lock/motor cover."
- *9 The head flange type is not available for the LEY32/40.
- *10 Produced upon receipt of order (Robotic cable only)

- *11 The standard cable should only be used on fixed parts. For use on moving parts, select the robotic cable. Refer to the **Web Catalog** if only the actuator cable is required.
- *12 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.
- *13 Only available for the motor type "Step motor"
- *14 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) separately. (Refer to the **Web Catalog**.)
- *15 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. If an I/O cable is required, order the cable separately for each series. (For details, refer to the **Web Catalog**.)
- *16 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables usable with open collector
- *17 The DIN rail is not included. It must be ordered separately.
- *18 Select "Nil" for anything other than DeviceNet®, CC-Link, or parallel input.
Select "Nil," "S," or "T" for DeviceNet® or CC-Link.
Select "Nil," "1," "3," or "5" for parallel input.

⚠ Caution

[CE/UKCA-compliant products]

- ① EMC compliance was tested by combining the electric actuator LEY series and the controller LEC/JXC series.
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify compliance with the EMC directive for the machinery and equipment as a whole.
- ② For the servo motor (24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the **Web Catalog** for the noise filter set. Refer to the LECA series Operation Manual for installation.

[UL-compliant products (For the LEC series)]

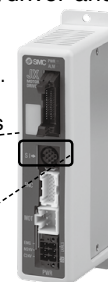
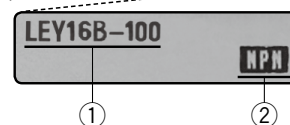
When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

The actuator and controller/driver are sold as a package.

Confirm that the combination of the controller/driver and actuator is correct.

<Check the following before use.>

- ① Check the actuator label for the model number (after "25A-"). This number should match that of the controller/driver.
- ② Check that the Parallel I/O configuration matches (NPN or PNP).



* Refer to the Operation Manual for using the products. Please download it via our website: <https://www.smcworld.com>





25A-LEY Series











Step Motor (Servo/24 VDC)

Servo Motor (24 VDC)

Secondary Battery Compatible

Compatible Controllers/Drivers

Type	Step data input type	Step data input type	Programless type	Pulse input type
				
Series	JXC51 JXC61	LECA6	LECP1	LECPA
Features	Parallel I/O	Parallel I/O	Capable of setting up operation (step data) without using a PC or teaching box	Operation by pulse signals
Compatible motor	Step motor (Servo/24 VDC)	Servo motor (24 VDC)	Step motor (Servo/24 VDC)	
Max. number of step data	64 points		14 points	—
Power supply voltage	24 VDC			

Type	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet® direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
										
Series	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet® direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor	Step motor (Servo/24 VDC)									
Max. number of step data	64 points									
Power supply voltage	24 VDC									