Battery-less Absolute (Step Motor 24 VDC)

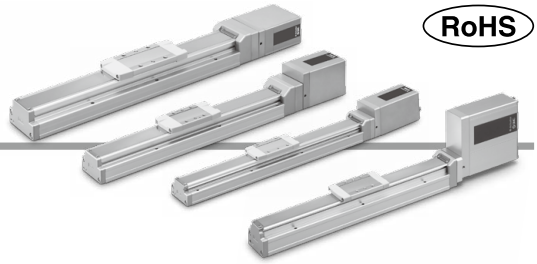
e-Actuator Easy to Operate Secondary Battery Compatible

Integrated Controller / Slider Type

25A-EQFS□H Series 25A-EQFS16, 25, 32, 40

CE UKCA RoHS

Refer to the Web Catalog for model selection.



How to Order

25A-EQFS 32 R H A - 300 □ - B 5

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Series compatible with secondary batteries

❶ Size

16
25
32
40

❷ Motor mounting position/ Motor cover direction

Motor mounting position: In-line

Symbol	Motor cover direction*1	Size
Nil	—	25/32/40
D1	Left side	16
D2	Right side	
D3	Top side	
D4	Bottom side	

*1 This is the direction seen from the connector side.

Motor mounting position: Parallel

Symbol	Direction	Size
R	Right side	16/25/32/40
L	Left side	

❸ Motor type

H	Battery-less absolute (Step motor 24 VDC)

❹ Lead [mm]

Symbol	25A-EQFS16	25A-EQFS25	25A-EQFS32	25A-EQFS40
H	—	20	24	30
A	10	12	16	20
B	5	6	8	10
C	2.5	3	4	5

❺ Stroke

50	50
to	to
1200	1200

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

❻ Motor option

Nil	Without option
B	With lock

❼ Controller position

B	Integrated controller

❽ Parallel input

5	NPN
6	PNP

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Size	Stroke																					
	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200
16	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—	—
25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—
32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Battery-less Absolute (Step Motor 24 VDC)

e-Actuator Easy to Operate Secondary Battery Compatible

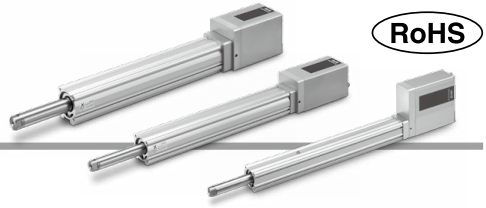
Integrated Controller / Rod Type

25A-EQY□H Series 25A-EQY16, 25, 32

CE UK CA

Refer to the Web Catalog for model selection.

RoHS



How to Order

25A – EQY 25 D H B – 50 □ □ □ – B 5

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

Series compatible with secondary batteries

❶ Size

16
25
32

❷ Motor mounting position/Motor cover direction

Motor mounting position: In-line

Symbol	Motor cover direction*1	Size
D	—	25/32
D1	Left side	16
D2	Right side	
D3	Top side	
D4	Bottom side	

*1 This is the direction seen from the connector side.

Motor mounting position: Parallel

Symbol	Direction	Size
Nil	Top side	16/25/32
R	Right side	
L	Left side	

❸ Motor type

H	Battery-less absolute (Step motor 24 VDC)

❹ Lead [mm]

Symbol	EQY16	EQY25	EQY32
H	—	20	24
A	10	12	16
B	5	6	8
C	2.5	3	4

❺ Stroke

Size	Stroke [mm]											
	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
16	●	●	●	●	●	●	●	—	—	—	—	10 to 300
25	●	●	●	●	●	●	●	●	●	—	—	15 to 400
32	●	●	●	●	●	●	●	●	●	●	●	20 to 500

❻ Motor option

Nil	Without option
B	With lock

❼ Rod end thread

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

❽ Mounting*2

Symbol	Type	Motor mounting position					
		Parallel			In-line		
		16	25	32	16	25	32
Nil	Ends tapped*3 Body bottom tapped	●	●	●	●	●	●
L	Foot bracket	●	●	●	—	—	—
F	Rod flange*3 *6	●	●	●	●	●	●
G	Head flange*5	●	●	—	—	—	—
D	Double clevis*4	●	●	●	—	—	—

❾ Controller position

B	Integrated controller

❿ Parallel input

5	NPN
6	PNP

*1 Motor mounting position: For the parallel mounting type, the motor units with the following sizes and strokes protrude from the body end. Check for interference with workpieces before selecting a model.
·25A-EQY16, 25, 32 Without lock: 30 mm stroke, With lock: 30, 50 mm strokes
*2 The mounting bracket is shipped together with the product but does not come assembled.
*3 For the horizontal cantilever mounting of the rod flange or ends tapped types, use the actuator within the following stroke range.
·25A-EQY25: 200 or less ·25A-EQY32: 100 or less
*4 For the mounting of the double clevis type, use the actuator within the following stroke range.
·25A-EQY16: 100 or less ·25A-EQY25: 200 or less ·25A-EQY32: 200 or less
*5 The head flange type is not available for the EQY32.
*6 The rod flange type cannot accommodate the following sizes and strokes.
·25A-EQY16 Without lock: 30 mm stroke, With lock: 30, 50, 100 mm strokes
·25A-EQY25, 32 Without lock: 30 mm stroke, With lock: 30, 50 mm strokes

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	Flange	Double clevis
16	25-LEY-L016	25-LEY-F016	25-LEY-D016
25	25-EQY-L025	25-EQY-F025	25-LEY-D025
32	25-EQY-L032	25-LEY-F032	25-EQY-D032

*1 When ordering foot brackets, order 2 pieces per actuator.
* 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

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

* Copper and zinc materials are used for the motors, cables, controllers/drivers.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Options

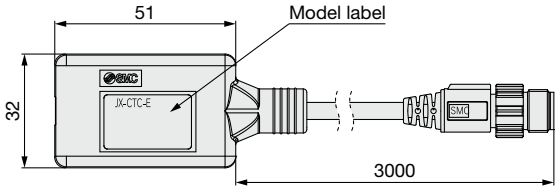
■Communication cable for controller setting

Controller setting kit JX-CT-E

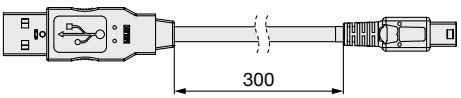
A set which includes a communication cable (JX-CTC-E) and a USB cable (LEC-W2-U)

* It is possible to individually purchase the communication cable and USB cable.
* The communication and USB cables are not compatible with the 25A-series specifications.

Communication cable JX-CTC-E



USB cable LEC-W2-U



<Controller setting software/USB driver>

· Controller setting software
· USB driver (For JXC-CT□-E)

Download from SMC's website:
https://www.smcworld.com

Hardware Requirements

OS	Windows®10 (64 bit), Windows®11 (64 bit)
Communication interface	USB 2.0 port
Display	1366 x 768 or more

* Windows®10 and Windows®11 are registered trademarks of Microsoft Corporation in the United States.

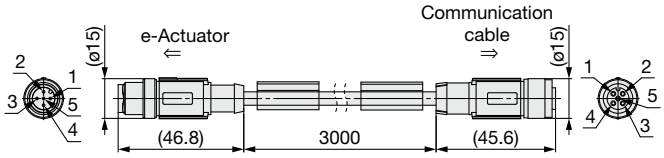
■Communication conversion cable

25A – JX – CTE – E – 3 – S

Weight [g]
159

Cable length

3	3 m



* To connect the 25A-EQ series product and the communication cable for controller setting (JX-CTC-E), a communication conversion cable is required.
* Only the connector on the e-Actuator side of this cable is compatible with the 25A- series specifications.

■Parallel I/O cable

25A – JX – CI S – E – 1 – S

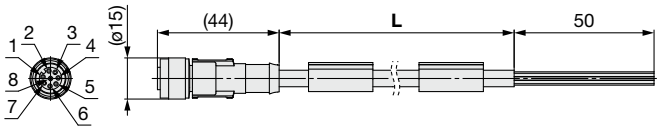
Connector type

Symbol	Specifications
S	Straight
A	Right angled

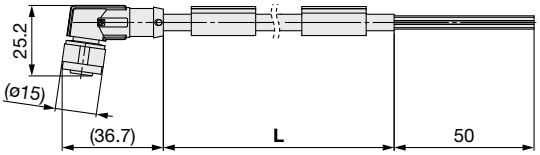
Cable length

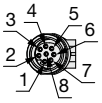
1	1.5 m
3	3 m
5	5 m
10	10 m

● Connector type: Straight



● Connector type: Right angled





* Connector type: the right angled type cannot be used for the parallel mounting type.

Pin no.	Wire color	Signal
1	White	IN0
2	Brown	IN1
3	Green	RESET
4	Yellow	—
5	Gray	OUT0
6	Pink	OUT1
7	Blue	OUT2
8	Red	ALARM

* Conductor size: AWG24

Part no.	Weight [g]
25A-JX-CIS-E-1-S	79
25A-JX-CIS-E-3-S	148
25A-JX-CIS-E-5-S	240
25A-JX-CIS-E-10-S	470
25A-JX-CIA-E-1-S	80
25A-JX-CIA-E-3-S	149
25A-JX-CIA-E-5-S	241
25A-JX-CIA-E-10-S	471

■Power supply cable

25A – JX – CD S – E – 1 – S

Connector type

Symbol	Specifications
S	Straight
A	Right angled

Cable length

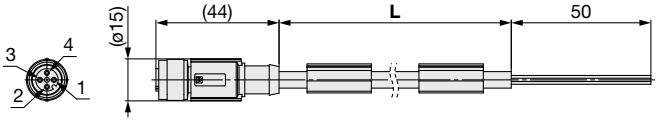
1	1.5 m
3	3 m
5	5 m
10	10 m

Pin no.	Wire color	Signal
1	Brown	C24V
2	White	M24V
3	Blue	0V
4	Black	LK RLS

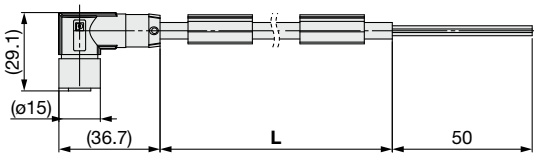
* Conductor size: AWG22

Part no.	Weight [g]
25A-JX-CDS-E-1-S	75
25A-JX-CDS-E-3-S	129
25A-JX-CDS-E-5-S	201
25A-JX-CDS-E-10-S	381
25A-JX-CDA-E-1-S	73
25A-JX-CDA-E-3-S	127
25A-JX-CDA-E-5-S	199
25A-JX-CDA-E-10-S	379

● Connector type: Straight



● Connector type: Right angled



* Connector type: the right angled type cannot be used for the parallel mounting type.

Environment Secondary Battery Compatible

● Copper (Cu) and zinc (Zn) free*1

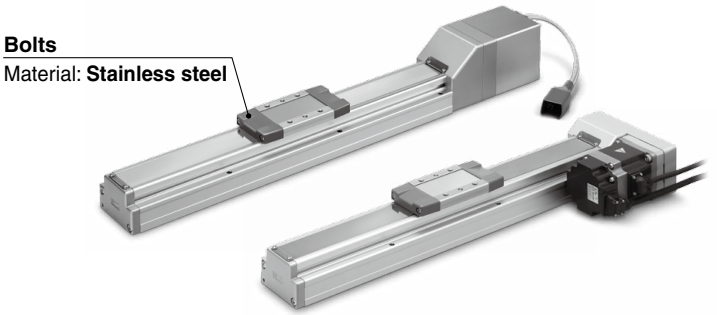
*1 Excludes motors, cables, controllers/drivers

● Compatible with dew points as low as –80°C

Uses grease compatible with low dew points

High Rigidity and High Precision Slider Type 25A-LEKFS

Battery-less Absolute (Step Motor 24 VDC) p. 298-3



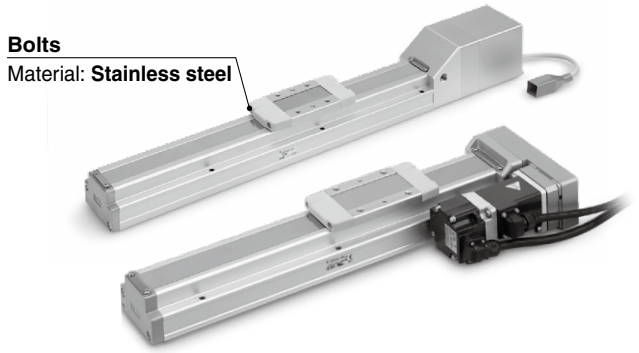
AC Servo Motor p. 298-7, 298-8
Motorless Type p. 298-9

	Size 16	25	32	40	High performance
Battery-less absolute (Step motor 24 VDC)	●	●	●	●	●
AC servo motor		●	●	●	
Motorless		●	●	●	

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.

Slider Type Ball Screw Drive/25A-LEFS

Battery-less Absolute (Step Motor 24 VDC) p. 298-10
Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) p. 299



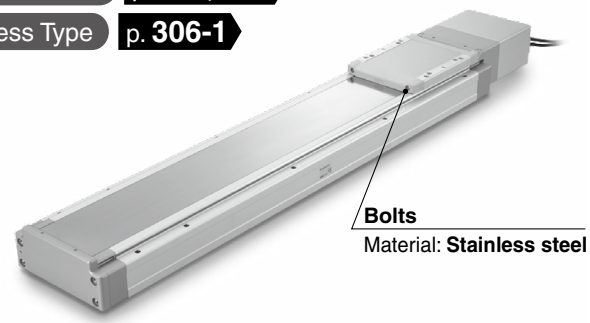
AC Servo Motor p. 303, 304
Motorless Type p. 304-1

	Size 16	25	32	40	High performance
Battery-less absolute (Step motor 24 VDC)	●	●	●	●	●
Incremental (Step motor 24 VDC)	●	●	●	●	●
Incremental (Servo motor 24 VDC)	●	●			
AC servo motor		●	●	●	
Motorless		●	●	●	

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.

High Rigidity Slider Type Ball Screw Drive/25A-LEJS

AC Servo Motor p. 305, 306
Motorless Type p. 306-1



	Size 40	63
AC servo motor	●	●
Motorless	●	●

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.

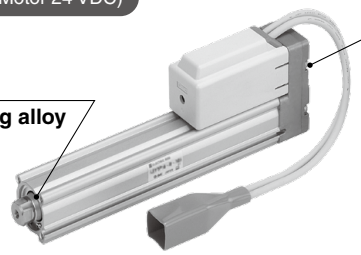
Environment Secondary Battery Compatible

Rod Type/25A-LEY

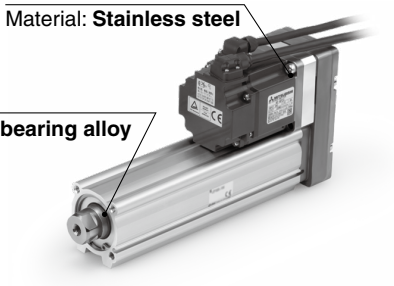
Battery-less Absolute (Step Motor 24 VDC) p. 306-2

Incremental (Step Motor 24 VDC) p. 307

Incremental (Servo Motor 24 VDC)



AC Servo Motor p. 311, 313



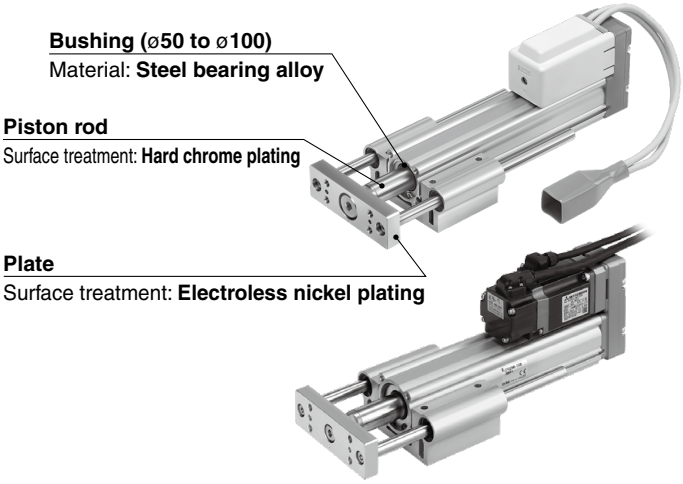
	Size				High performance
	16	25	32	40	
Battery-less absolute (Step motor 24 VDC)	●	●	●	●	●
Incremental (Step motor 24 VDC)	●	●	●	●	●
Incremental (Servo motor 24 VDC)	●	●			
AC servo motor		●	●		
Motorless		●	●		

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

Guide Rod Type/25A-LEYG

Battery-less Absolute (Step Motor 24 VDC) p. 314-4

Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC) p. 314-2



AC Servo Motor p. 314-6, 314-8

Motorless Type p. 314-10

	Size			
	16	25	32	40
Battery-less absolute (Step motor 24 VDC)	●	●	●	●
Incremental (Step motor 24 VDC)	●	●	●	●
Incremental (Servo motor 24 VDC)	●	●		
AC servo motor		●	●	
Motorless		●	●	

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

Battery-less Absolute (Step Motor 24 VDC)

High Rigidity and High Precision

Slider Type Secondary Battery Compatible

25A-LEKFS Series 25A-LEKFS16, 25, 32, 40

CE UKCA RoHS

For details, refer to the Web Catalog.

How to Order

25A-LEKFS 32 ❑ E A - 300 ❑ - R1 CD17T

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

❶ Size

16
25
32
40

❷ Motor mounting position

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

❸ Motor type

E	Battery-less absolute (Step motor 24 VDC)

❹ Lead [mm]

Symbol	25A-LEKFS16	25A-LEKFS25	25A-LEKFS32	25A-LEKFS40
H	—	20	24	30
A	10	12	16	20
B	5	6	8	10

❺ Stroke*1

Size	Stroke																
	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
16	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—
25	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—
32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

❻ Motor option

Nil	Without option
B	With lock

❼ Actuator cable type/length

Robotic cable [m]

Nil	None	R8	8*2
R1	1.5	RA	10*2
R3	3	RB	15*2
R5	5	RC	20*2

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

8 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∗3	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∗4

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet® CC-Link Ver. 1.10
T	T-branch type communication plug connector	
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)	

∗1 Please contact SMC for non-standard strokes as they are produced as special orders.
∗2 Produced upon receipt of order
∗3 The DIN rail is not included. It must be ordered separately.
∗4 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]
EMC compliance was tested by combining the electric actuator LEKFS series and the controller 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.

[Precautions relating to differences in controller versions]
When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the **Web Catalog**.

[UL-certified products]
The JXC series controllers used in combination with electric actuators are UL certified.

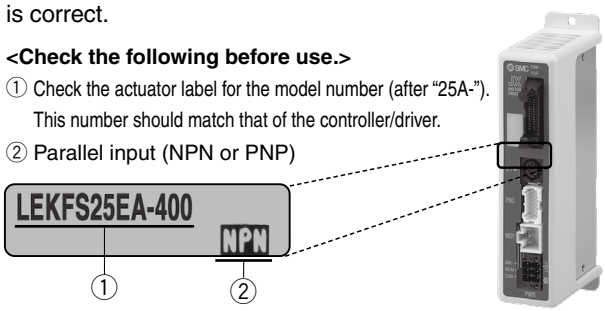
The actuator and controller are sold as a package.

Confirm that the combination of the controller 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 Parallel input (NPN or PNP)



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

■Trademark
EtherNet/IP® is a registered trademark of ODVA, Inc.
DeviceNet® is a registered trademark of ODVA, Inc.
EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Type	Step data input 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	**JXC51 JXC61**	**JXCE1**	**JXCEF**	**JXC91**	**JXC9F**	**JXCP1**	**JXCPF**	**JXCD1**	**JXCL1**	**JXCLF**	**JXCM1**
Features	Parallel I/O	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	Battery-less absolute (Step motor 24 VDC)										
Max. number of step data	64 points										
Power supply voltage	24 VDC										

Battery-less Absolute (Step Motor 24 VDC)

High Performance

CE UKCA RoHS

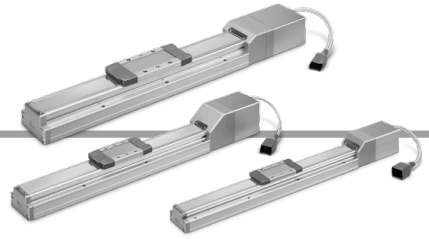
* For details, refer to the **Web Catalog**.

High Rigidity and High Precision Slider Type

Secondary Battery Compatible

25A-LEKFS□G Series

25A-LEKFS25, 32, 40



How to Order

25A – LEKFS 25 □ G B – 200 □ – R1 C5H73

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

For details on controllers, refer to the next page.

❶ Size

25
32
40

❷ Motor mounting position

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

❸ Motor type

Symbol	Type	Applicable size			Compatible controllers
		25A-LEKFS25	25A-LEKFS32	25A-LEKFS40	
G	High performance (Battery-less absolute)	●	●	●	JXC5H JXC6H JXCEH JXC9H JXCPH

❹ Lead [mm]

Symbol	25A-LEKFS25	25A-LEKFS32	25A-LEKFS40
H	20	24	30
A	12	16	20
B	6	8	10

❺ Stroke*1 [mm]

Stroke	Note	
	Size	Applicable stroke
50 to 800	25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800
50 to 1000	32	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000
150 to 1200	40	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200

❻ Motor option

Nil	Without option
B	With lock

❼ Actuator cable type/length

Robotic cable [m]

Nil	None	R8	8*2
R1	1.5	RA	10*2
R3	3	RB	15*2
R5	5	RC	20*2

Applicable Stroke Table

Size	Stroke																
	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
25	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—
32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

❽ Controller

Nil	Without controller
C□H□□	With controller

C 5 H 7 3

Controller type

5	Parallel I/O (NPN) type
6	Parallel I/O (PNP) type
E	EtherCAT
9	EtherNet/IP™
P	PROFINET

Number of axes/Special specification

H	1 axis/High performance type

Mounting

7	Screw mounting
8*3	DIN rail

I/O cable length

Nil	Without cable
1	1.5 m
3	3 m
5	5 m

*1 Please contact SMC for non-standard strokes as they are produced as special orders.
*2 Produced upon receipt of order
*3 The DIN rail is not included. It must be ordered separately.

⚠Caution

[CE/UKCA-compliant products]
EMC compliance was tested by combining the electric actuator LEF series and the controller 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.

■Trademark

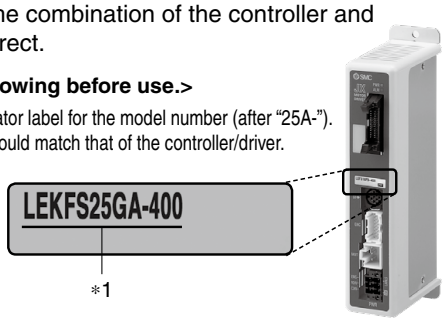
EtherNet/IP® is a registered trademark of ODVA, Inc.
EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

The actuator and controller are sold as a package.

Confirm that the combination of the controller 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.



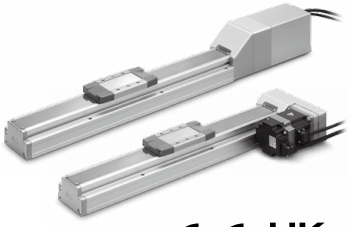
* Refer to the Operation Manual for using the products.
Please download it via our website: https://www.smcworld.com

Type	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type
Series	JXC5H JXC6H	JXCEH	JXC9H	JXCPH
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input
Compatible motor	Step motor 24 VDC			
Max. number of step data	64 points			
Power supply voltage	24 VDC			

AC Servo Motor *LECS□ Series*

High Rigidity and High Precision Slider Type Ball Screw Drive

Secondary Battery Compatible



25A-LEKFS Series 25A-LEKFS25, 32, 40

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

LECY□ Series ▶p. 298-6

RoHS

How to Order

25A – LEKFS 32 R S3 B – 200 □ – S 2 A2 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

Series compatible with secondary batteries

❶ Size

25
32
40

❷ Motor mounting position

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

❸ Motor type

Symbol	Type	Output [W]	❶ Size	❾ Driver type	Compatible drivers
S2*1	AC servo motor (Incremental encoder)	100	25	A1/A2	LECSA□-S1
S3		200	32	A1/A2	LECSA□-S3
S4		400	40	A2	LECSA2-S4
T6*2	AC servo motor (Absolute encoder)	100	25	B2	LECSB2-T5
				C2	LECSC2-T5
				S2	LECSS2-T5
T7		200	32	B2	LECSB2-T7
				C2	LECSC2-T7
				S2	LECSS2-T7
T8		400	40	B2	LECSB2-T8
				C2	LECSC2-T8
				S2	LECSS2-T8

*1 For motor type S2, the compatible driver part number suffix is S1.
*2 For motor type T6, the compatible driver part number is LECS□2-T5.

❹ Lead [mm]

Symbol	25A-LEKFS25	25A-LEKFS32	25A-LEKFS40
H	20	24	30
A	12	16	20
B	6	8	10

❺ Stroke [mm]

50	50
to	to
1200	1200

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

❻ Motor option

Nil	Without option
B	With lock

❼ Cable type*1 *2

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

*1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
*2 Standard cable entry direction is "(B) Counter axis side." For the right/left side parallel motor types of the ball screw drive, the cable entry direction is "(A) Axis side." (For details, refer to the **Web Catalog**.)

❽ Cable length*1 [m]

Nil	Without cable
2	2
5	5
A	10

*1 The length of the encoder, motor and lock cables are the same.

❾ Driver type

	Compatible drivers	Power supply voltage [V]	Size 25	Size 32	Size 40
Nil	Without driver	—	●	●	●
A1	LECSA1-S□	100 to 120	●	●	—
A2	LECSA2-S□	200 to 230	●	●	●
B2	LECSB2-T□	200 to 240	●	●	●
C2	LECSC2-T□	200 to 230	●	●	●
S2	LECSS2-T□	200 to 240	●	●	●

* When a driver type is selected, a cable is included. Select the cable type and cable length.
Example) S2S2: Standard cable (2 m) + Driver (LECSS2)
S2: Standard cable (2 m)
Nil: Without cable and driver

❿ I/O cable length [m]*1

Nil	Without cable
H	Without cable (Connector only)
1	1.5

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the **Web Catalog**. if an I/O cable is required.

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

●: Standard

Size	Stroke 50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
25	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—
32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Please contact SMC for non-standard strokes as they are produced as special orders.

Compatible Drivers

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETⅢ/H type
Series	**LECSA**	**LECSB-T**	**LECSC-T**	**LECSS-T**
Number of point tables	Up to 7	Up to 255	Up to 255 (2 stations occupied)	—
Pulse input	○	○	—	—
Applicable network	—	—	CC-Link	SSCNETⅢ/H
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication		USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz), 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.
* The 25A- series specifications and dimensions are the same as those of the standard model.

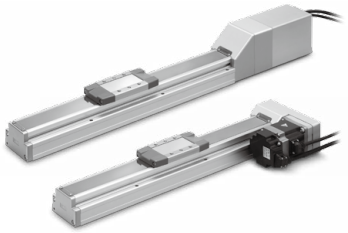
For details, refer to the Web Catalog.

AC Servo Motor **LECY□ Series**

High Rigidity and High Precision Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEKFS Series 25A-LEKFS25, 32, 40



CE UKCA RoHS

For details, refer to the Web Catalog.

LECS□ Series ▶ p. 298-5

How to Order

25A-LEKFS 32 R V7 B - 200 B - S 3 M2 □

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

❶ Size

25
32
40

❷ Motor mounting position

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

❸ Motor type

Symbol	Type	Output [W]	❶ Size	❾ Driver type	Compatible drivers
V6*1	AC servo motor (Absolute encoder)	100	25	M2	LECYM2-V5
				U2	LECYU2-V5
V7		200	32	M2	LECYM2-V7
				U2	LECYU2-V7
V8		400	40	M2	LECYM2-V8
				U2	LECYU2-V8

*1 For motor type V6, the compatible driver part number suffix is V5.

❹ Lead [mm]

Symbol	25A-LEKFS25	25A-LEKFS32	25A-LEKFS40
H	20	24	30
A	12	16	20
B	6	8	10

❺ Stroke [mm]

50	50
to	to
1200	1200

❻ Motor option

Nil	Without option
B	With lock

❼ Cable type

Nil	Without cable
S	Standard cable
R	Robotic cable (Flexible cable)

❽ Actuator cable length [m]

Nil	Without cable
3	3
5	5
A	10
C	20

❾ Driver type

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

* When a driver type is selected, a cable is included. Select the cable type and cable length.

❿ I/O cable length [m]*1

Nil	Without cable
H	Without cable (Connector only)
1	1.5

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the **Web Catalog**. if an I/O cable is required.

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

●: Standard

Size	Stroke																
	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
25	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—
32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

* Please contact SMC for non-standard strokes as they are produced as special orders.

Compatible Drivers

Driver type	MECHATROLINK-Ⅱ type	MECHATROLINK-Ⅲ type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

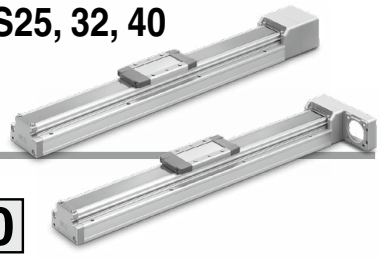
Motorless Type

Electric Actuator/ High Rigidity and High Precision Slider Type Ball Screw Drive

Secondary Battery Compatible

RoHS

25A-LEKFS Series 25A-LEKFS25, 32, 40



How to Order

25A – LEKFS [32] [ ] [NZ] [A] – [300]

- 25A: Series compatible with secondary batteries
- ❶ 32
- ❷ ( )
- ❸ NZ
- ❹ A
- ❺ 300

❶ Size

25
32
40

❷ Motor mounting position

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

❸ Mounting type

NZ
NY
NX
NW
NV
NU
NT
NM1
NM2
NM3

❹ Lead [mm]

Symbol	25A-LEKFS25	25A-LEKFS32	25A-LEKFS40
H	20	24	30
A	12	16	20
B	6	8	10

❺ Stroke [mm]

50	50
to	to
1200	1200

∗ Refer to the applicable stroke table.

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

Applicable Stroke Table

●: Standard

Size	Stroke																
	50	100	150	200	250	300	350	400	450	500	600	700	800	900	1000	1100	1200
25	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—
32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Compatible Motors and Mounting Types∗5

Applicable motor model		Size/Mounting type														
		25						32/40								
Manufacturer	Series	NZ	NY	NX	NM1	NM2	NM3	NZ	NY	NX	NW	NV	NU	NT	NM1	NM2
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
YASKAWA Electric Corporation	Σ-V/7/X	●∗4	—	—	—	—	—	●	—	—	—	—	—	—	—	—
SANYO DENKI CO., LTD.	SANMOTION R	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
OMRON Corporation	OMNUC G5/1S	●	—	—	—	—	—	—	●	—	—	—	—	—	—	—
Panasonic Corporation	MINAS A5/A6	● (MHMF only)	●	—	—	—	—	—	●	—	—	—	—	—	—	—
FANUC CORPORATION	βis (-B)	●	—	—	—	—	—	● (β1 only)	—	—	●	—	—	—	—	—
NIDEC INSTRUMENTS CORPORATION	S-FLAG	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
KEYENCE CORPORATION	SV/SV2	●∗4	—	—	—	—	—	●	—	—	—	—	—	—	—	—
FUJI ELECTRIC CO., LTD.	ALPHA7	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
MinebeaMitsumi Inc.	Hybrid stepping motors	—	—	—	●∗1	—	●∗3	—	—	—	—	—	—	—	●∗2	—
Shinano Kenshi Co., Ltd.	CSB-BZ	—	—	—	●∗1	—	●∗3	—	—	—	—	—	—	—	—	—
ORIENTAL MOTOR Co., Ltd.	α STEP AR/AZ	—	—	—	—	● (46 only)	—	—	—	—	—	—	—	—	—	●∗2
FASTECH Co., Ltd.	Ezi-SERVO	—	—	—	●	—	—	—	—	—	—	—	—	—	●∗2	—
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/TL	● (TL only)	—	—	—	—	—	—	—	●∗1 (MP/VP only)	—	—	—	● (TL only)	—	—
Beckhoff Automation GmbH	AM 30/31/80/81	●	—	—	—	—	—	—	—	●∗1 (80/81 only)	—	●∗1 (30 only)	●∗2 (31 only)	—	—	—
Siemens AG	SIMOTICS S-1FK7	—	—	●	—	—	—	—	—	●∗1	—	—	—	—	—	—
Delta Electronics, Inc.	ASDA-A2	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
ANCA Motion	AMD2000	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—

∗1 Motor mounting position: In-line only ∗2 Only size 32 is available when the motor mounting position is right (or left) side parallel. ∗3 Motor mounting position: Right (or left) side parallel only
∗4 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.
∗5 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

∗ The auto switch magnet contains copper and/or zinc.
∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Battery-less Absolute (Step Motor 24 VDC)

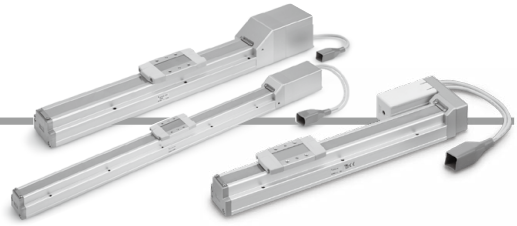
Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEFS Series 25A-LEFS16, 25, 32, 40

CE UKCA RoHS

* For details, refer to the Web Catalog.



How to Order

25A - LEFS H 25 R E B - 200 K - R1 CD17T

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

For details on controllers, refer to the next page.

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

16
25
32
40

❸ Motor mounting position

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

❹ Motor type

E	Battery-less absolute (Step motor 24 VDC)

❺ Lead [mm]

Symbol	25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40
H	—	20	24	30
A	10	12	16	20
B	5	6	8	10

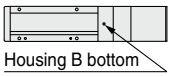
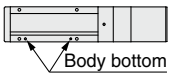
❻ Stroke*1 [mm]

Stroke	Note	
	Size	Applicable stroke
50 to 500	16	50, 100, 150, 200, 250, 300, 350, 400, 450, 500
50 to 800	25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800
50 to 1000	32	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000
150 to 1200	40	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200

❼ Motor option

Nil	Without option
B	With lock

❽ Positioning pin hole

Nil	Housing B bottom*2	
K	Body bottom 2 locations	

❾ Actuator cable type/length

Robotic cable [m]

Nil	None	R8	8*3
R1	1.5	RA	10*3
R3	3	RB	15*3
R5	5	RC	20*3

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

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∗4	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∗5

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet® CC-Link Ver. 1.10
T	T-branch type communication plug connector	
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)	

∗1 Please contact SMC for non-standard strokes as they are produced as special orders.
∗2 Refer to the body mounting example on the **Web Catalog** for the mounting method.
∗3 Produced upon receipt of order
∗4 The DIN rail is not included. It must be ordered separately.
∗5 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]
EMC compliance was tested by combining the electric actuator LEF series and the controller 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.

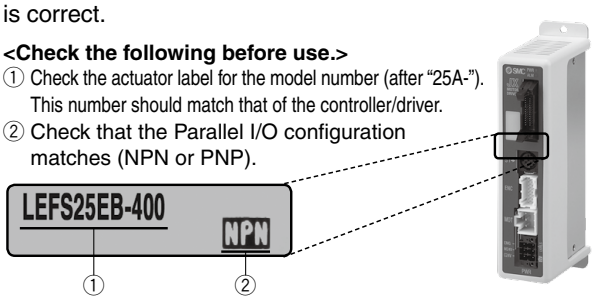
[Precautions relating to differences in controller versions]
When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the **Web Catalog**.

[UL certification]
The JXC series controllers used in combination with electric actuators are UL certified.

The actuator and controller are sold as a package.

Confirm that the combination of the controller 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

Type	Step data input 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	**JXC51 JXC61**	**JXCE1**	**JXCEF**	**JXC91**	**JXC9F**	**JXCP1**	**JXCPF**	**JXCD1**	**JXCL1**	**JXCLF**	**JXCM1**
Features	Parallel I/O	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	Battery-less absolute (Step motor 24 VDC)										
Max. number of step data	64 points										
Power supply voltage	24 VDC										

Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC)

Slider Type

Ball Screw Drive Secondary Battery Compatible

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

RoHS

25A-LEFS Series 25A-LEFS16, 25, 32, 40

Refer to the Web Catalog for model selection.

How to Order

25A – LEFS **H** **25** **R** **B** – **200** **K** – **S1**

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

JXC□ Series **CD17T**

LEC□ Series **AN** **1** ❿ ⓫ ⓬

For details on controllers, refer to page 300.

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

16
25
32
40

❸ Motor mounting position

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

❹ Motor type

Symbol	Type	Applicable size				Compatible controllers/drivers
		25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40	
Nil	Step motor (Servo/24 VDC)	●	●	●	●	JXC51 JXCEF JXC61 JXC9F JXCE1 JXCPF JXC91 JXCLF JXCP1 JXCD1 LECP1 JXCL1 LECPA JXCM1
A	Servo motor (24 VDC)	●	●	—	—	LECA6

❺ Lead [mm]

Symbol	25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40
H	—	20	24	30
A	10	12	16	20
B	5	6	8	10

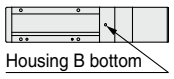
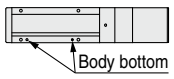
❻ Stroke*1 [mm]

Stroke	Note	
	Size	Applicable stroke
50 to 500	**16**	50, 100, 150, 200, 250, 300, 350, 400, 450, 500
50 to 800	**25**	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800
50 to 1000	**32**	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000
150 to 1200	**40**	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200

❼ Motor option

Nil	Without option
B	With lock

❽ Positioning pin hole

Nil	Housing B bottom*2	
K	Body bottom 2 locations	

❾ Actuator cable type/length*4

Standard cable [m]

Nil	None
S1	1.5*6
S3	3*6
S5	5*6

Robotic cable [m]

R1	1.5	**RA**	10*3
R3	3	**RB**	15*3
R5	5	**RC**	20*3
R8	8*3		

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.
∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

JXC□ Series (For details, refer to page 301.)

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*10	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*11

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet® CC-Link Ver. 1.10
T	T-branch type communication plug connector	
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 301.)

AN 1 □
⑩ ⑪ ⑫

⑩ Controller/Driver type*5

Nil	Without controller/driver	
6N	LECA6 (Step data input type)	NPN
6P		PNP
1N	LECP1*6 (Programless type)	NPN
1P		PNP
AN	LECPA*6 *7 (Pulse input type)	NPN
AP		PNP

⑪ I/O cable length*8

Nil	Without cable (Without communication plug connector)
1	1.5 m
3	3 m*9
5	5 m*9

⑫ Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*10

*1 Please contact SMC for non-standard strokes as they are produced as special orders.
*2 Refer to the body mounting example in the **Web Catalog** for the mounting method.
*3 Produced upon receipt of order (Robotic cable only)
*4 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.
*5 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.
*6 Only available for the motor type "Step motor"
*7 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) separately. (Refer to the **Web Catalog**.)
*8 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**.)
*9 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
*10 The DIN rail is not included. It must be ordered separately.
*11 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 LEF 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 incremental (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.

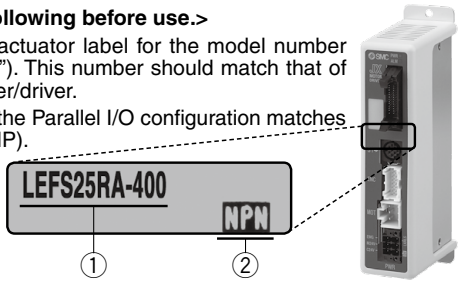
The actuator and controller/driver are sold as a package.

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

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									

Battery-less Absolute (Step Motor 24 VDC)

High Performance Slider Type Ball Screw Drive

Secondary Battery Compatible

25A-LEFS□G Series

25A-LEFS16, 25, 32, 40

∗ For details, refer to the Web Catalog.

RoHS

How to Order

25A – LEFS H 25 □ G B – 200 □ K – R1 C5H73

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

Series compatible with secondary batteries

For details on controllers, refer to the next page.

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

16
25
32
40

❸ Motor mounting position

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

❹ Motor type

Symbol	Type	Applicable size				Compatible controllers
		25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40	
G	High performance (Battery-less absolute)	●	●	●	●	JXC5H JXC6H JXCEH JXC9H JXCPH

❺ Lead [mm]

Symbol	25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40
H	—	20	24	30
A	10	12	16	20
B	5	6	8	10

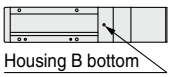
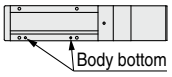
❻ Stroke∗1 [mm]

Stroke	Note	
	Size	Applicable stroke
50 to 500	16	50, 100, 150, 200, 250, 300, 350, 400, 450, 500
50 to 800	25	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800
50 to 1000	32	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000
150 to 1200	40	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200

❼ Motor option

Nil	Without option
B	With lock

❽ Positioning pin hole

Nil	Housing B bottom∗2	 Housing B bottom
K	Body bottom 2 locations	 Body bottom

❾ Actuator cable type/length

Robotic cable [m]

Nil	None	R8	8∗3
R1	1.5	RA	10∗3
R3	3	RB	15∗3
R5	5	RC	20∗3

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Rail guide	GR-D-005 (5 g) GR-D-010 (10 g)

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

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

For details, refer to the Web Catalog.

⑩ Controller

Nil	Without controller
C□H□□	With controller

C 5 H 7 3

Controller type

5	Parallel I/O (NPN) type
6	Parallel I/O (PNP) type
E	EtherCAT
9	EtherNet/IP™
P	PROFINET

Number of axes/Special specification

H	1 axis/High performance type

Mounting

7	Screw mounting
8*4	DIN rail

I/O cable length

Nil	Without cable
1	1.5 m
3	3 m
5	5 m

*1 Please contact SMC for non-standard strokes as they are produced as special orders.
*2 For details on the mounting method, refer to page 280.
*3 Produced upon receipt of order
*4 The DIN rail is not included. It must be ordered separately.

⚠Caution

[CE/UKCA-compliant products]
EMC compliance was tested by combining the electric actuator LEF series and the controller 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.

■Trademark

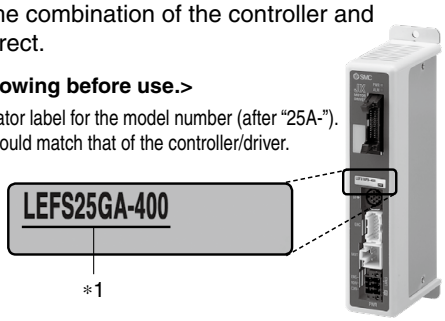
EtherNet/IP® is a registered trademark of ODVA, Inc.
EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

The actuator and controller are sold as a package.

Confirm that the combination of the controller 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.



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

Type	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type
Series	**JXC5H JXC6H**	**JXCEH**	**JXC9H**	**JXCPH**
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input
Compatible motor	Step motor 24 VDC			
Max. number of step data	64 points			
Power supply voltage	24 VDC			

Incremental (Step Motor 24 VDC)

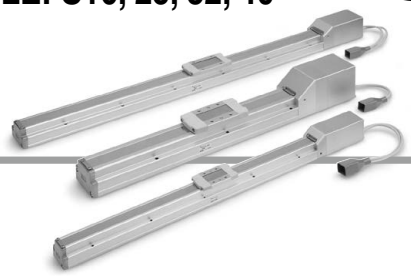
High Performance Slider Type

Ball Screw Drive Secondary Battery Compatible

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

25A-LEFS□F Series 25A-LEFS16, 25, 32, 40

RoHS



How to Order

25A - LEFS H 25 □ F B - 200 □ K - S1 C5H73

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

Series compatible with secondary batteries

For details on controllers, refer to the next page.

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

16
25
32
40

❸ Motor mounting position

Nil	In-line

❹ Motor type

Symbol	Type	Applicable size				Compatible controllers
		25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40	
F	High performance (Step motor 24 VDC)	●	●	●	●	JXC5H JXC6H JXCEH JXC9H JXCPH

❺ Lead [mm]

Symbol	25A-LEFS16	25A-LEFS25	25A-LEFS32	25A-LEFS40
H	—	20	24	30
A	10	12	16	20
B	5	6	8	10

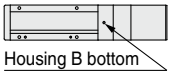
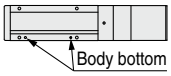
❻ Stroke*1 [mm]

Stroke	Note	
	Size	Applicable stroke
50 to 500	**16**	50, 100, 150, 200, 250, 300, 350, 400, 450, 500
50 to 800	**25**	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800
50 to 1000	**32**	50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000
150 to 1200	**40**	150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, 750, 800, 850, 900, 950, 1000, 1100, 1200

❼ Motor option

Nil	Without option
B	With lock

❽ Positioning pin hole

Nil	Housing B bottom*2	 Housing B bottom
K	Body bottom 2 locations	 Body bottom

❾ Actuator cable type/length*4

Standard cable [m]

Nil	None
S1	1.5
S3	3
S5	5

Robotic cable [m]

R1	1.5	**RA**	10*3
R3	3	**RB**	15*3
R5	5	**RC**	20*3
R8	8*3		

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⑩ Controller

Nil	Without controller
C□H□□	With controller

C 5 H 7 3

Interface (Communication protocol/Input/Output)

5	Parallel I/O (NPN)
6	Parallel I/O (PNP)
E	EtherCAT
9	EtherNet/IP™
P	PROFINET

Number of axes/Special specification

H	1 axis/High performance type

Mounting

7	Screw mounting
8*5	DIN rail

Communication plug connector, I/O cable*6

Symbol	Type	Applicable interface
Nil	Without accessory	—
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)	

*1 Please contact SMC for non-standard strokes as they are produced as special orders.
*2 For details on the mounting method, refer to page 280.
*3 Produced upon receipt of order (Robotic cable only)
*4 The standard cable should only be used on fixed parts.
For use on moving parts, select the robotic cable.
*5 The DIN rail is not included. It must be ordered separately.
*6 Select "Nil" for anything other than parallel input.
Select "Nil," "1," "3," or "5" for parallel input.

⚠Caution

[CE/UKCA-compliant products]
EMC compliance was tested by combining the electric actuator LEF series and the controller 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.

■Trademark

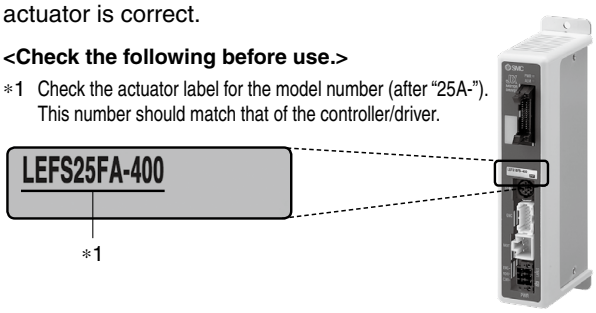
EtherNet/IP® is a registered trademark of ODVA, Inc.
EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

The actuator and controller are sold as a package.

Confirm that the combination of the controller 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.



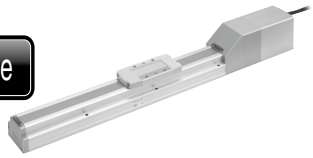
* Refer to the Operation Manual for using the products.
Please download it via our website: https://www.smcworld.com

Compatible Controllers

Type	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type
Series	**JXC5H JXC6H**	**JXCEH**	**JXC9H**	**JXCPH**
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input
Compatible motor	Step motor 24 VDC	Step motor (Servo/24 VDC)		
Max. number of step data	64 points	64 points		
Power supply voltage	24 VDC	24 VDC		

Slider Type
Ball Screw Drive

Secondary Battery Compatible



25A-LEFS Series 25A-LEFS25, 32, 40

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

LECY□ Series ▶p. 304

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

How to Order

25A-LEFS H 32 R S3 B – 200 □ K – S 2 A2 □

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32
40

❸ Motor mounting position

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

❺ Lead [mm]

Symbol	25A-LEFS25	25A-LEFS32	25A-LEFS40
H	20	24	30
A	12	16	20
B	6	8	10

❻ Stroke [mm]

50	50
to	to
1200	1200

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

❼ Motor option

Nil	Without option
B	With lock

❹ Motor type

Symbol	Type	Output [W]	❷ Size	⓫ Driver type	Compatible drivers
S2∗1	AC servo motor (Incremental encoder)	100	25	A1/A2	LECSA□-S1
S3		200	32	A1/A2	LECSA□-S3
S4		400	40	A2	LECSA2-S4
T6∗2	AC servo motor (Absolute encoder)	100	25	B2	LECSB2-T5
				C2	LECSC2-T5
				S2	LECSS2-T5
T7		200	32	B2	LECSB2-T7
				C2	LECSC2-T7
				S2	LECSS2-T7
T8		400	40	B2	LECSB2-T8
				C2	LECSC2-T8
				S2	LECSS2-T8

∗1 For motor type S2, the compatible driver part number suffix is S1.
∗2 For motor type T6, the compatible driver part number is LECS□2-T5.

❽ Positioning pin hole

Nil	Housing B bottom∗1	Housing B bottom
K	Body bottom 2 locations	Body bottom

∗1 Refer to the body mounting example for the mounting method. (Refer to the **Web Catalog**.)

❿ Cable length∗1 [m]

Nil	Without cable
2	2
5	5
A	10

∗1 The length of the encoder, motor, and lock cables are the same.

❾ Cable type∗1 ∗2

Nil	Without cable
S	Standard cable
R	Robotic cable

∗1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
∗2 Standard cable entry direction is
· Parallel: (A) Axis side
· In-line: (B) Counter axis side

⓫ Driver type

	Compatible drivers	Power supply voltage [V]	Size 25	32	40
Nil	Without driver	—	●	●	●
A1	LECSA1-S□	100 to 120	●	●	—
A2	LECSA2-S□	200 to 230	●	●	●
B2	LECSB2-T□	200 to 240	●	●	●
C2	LECSC2-T□	200 to 230	●	●	●
S2	LECSS2-T□	200 to 240	●	●	●

∗ When a driver type is selected, a cable is included. Select the cable type and cable length.
Example) S2S2: Standard cable (2 m) + Driver (LECSS2)
S2: Standard cable (2 m)
Nil: Without cable and driver

⓬ I/O cable length [m]∗3

Nil	Without cable
H	Without cable (Connector only)
1	1.5

∗3 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.
If an I/O cable is required, refer to the "Options" page in the **Web Catalog**.

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200
25A-LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—
25A-LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
25A-LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

∗ Please contact SMC for non-standard strokes as they are produced as special orders.

Compatible Drivers∗1

∗ The 25A- series specifications and dimensions are the same as those of the standard model. **For details, refer to the Web Catalog.**

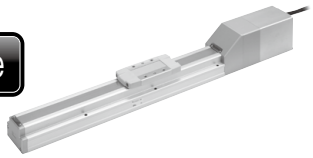
Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETⅢ/H type
Series	LECSA	LECSB-T	LECSC-T	LECSS-T
Number of point tables	Up to 7	Up to 255	Up to 255 (2 stations occupied)	—
Pulse input	○	○	—	—
Applicable network	—	—	CC-Link	SSCNETⅢ/H
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)

∗1 Copper and zinc materials are used for the motors, cables, controllers/drivers.

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

Slider Type
Ball Screw Drive Secondary Battery Compatible



25A-LEFS Series 25A-LEFS25, 32, 40

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

LECS□ Series ▶p. 303

CE UKCA RoHS

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

How to Order

25A-LEFS H 32 R V7 B – 200 □ K – S 2 M2 □

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32
40

❸ Motor mounting position

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

❺ Lead [mm]

Symbol	25A-LEFS25	25A-LEFS32	25A-LEFS40
H	20	24	30
A	12	16	20
B	6	8	10

❻ Stroke [mm]

50	50
to	to
1200	1200

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

❼ Motor option

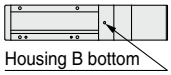
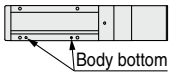
Nil	Without option
B	With lock

❹ Motor type

Symbol	Type	Output [W]	❷ Size	⓫ Driver type	Compatible drivers
V6∗1	AC servo motor (Absolute encoder)	100	25	M2	LECYM2-V5
				U2	LECYU2-V5
V7		200	32	M2	LECYM2-V7
				U2	LECYU2-V7
V8		400	40	M2	LECYM2-V8
				U2	LECYU2-V8

∗1 For motor type V6, the compatible driver part number suffix is V5.

❽ Positioning pin hole

Nil	Housing B bottom∗1	
K	Body bottom 2 locations	

∗1 Refer to the body mounting example in the **Web Catalog** for the mounting method.

❾ Cable type∗1 ∗2

Nil	Without cable
S	Standard cable
R	Robotic cable

∗1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
∗2 Standard cable entry direction is "(A) Axis side".

❿ Cable length∗1 [m]

Nil	Without cable
3	3
5	5
A	10
C	20

∗1 The length of the encoder, motor, and lock cables are the same.

⓫ Driver type

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

⓬ I/O cable length [m]∗3

Nil	Without cable
H	Without cable (Connector only)
1	1.5

∗3 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.
Refer to the **Web Catalog** if an I/O cable is required.

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200
25A-LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—
25A-LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
25A-LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

∗ Please contact SMC for non-standard strokes as they are produced as special orders.

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

For details, refer to the Web Catalog.

Compatible Drivers

Driver type	MECHATROLINK-Ⅱ type	MECHATROLINK-Ⅲ type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

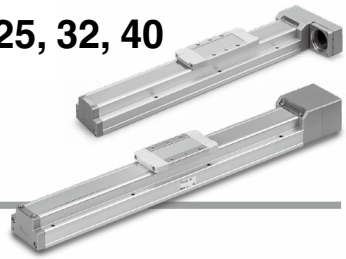
Motorless Type

Electric Actuator/Slider Type Ball Screw Drive

Secondary Battery Compatible

RoHS

25A-LEFS Series 25A-LEFS25, 32, 40



How to Order

25A-LEFS H 25 R NZ A-100 K

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32
40

❸ Motor mounting position

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

❹ Mounting type

NZ	NV	NM2
NY	NU	NM3
NX	NT	
NW	NM1	

❺ Lead [mm]

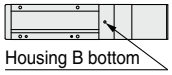
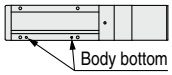
Symbol	25A-LEFS25	25A-LEFS32	25A-LEFS40
H	20	24	30
A	12	16	20
B	6	8	10

❻ Stroke [mm]

50	50
to	to
1200	1200

∗ Refer to the applicable stroke table.

❼ Positioning pin hole

Nil	Housing B bottom∗1	
K	Body bottom 2 locations	

∗1 Refer to the body mounting example on the **Web Catalog** for the mounting method.

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw	GR-D-005 (5 g)
Rail guide	GR-D-010 (10 g)

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200
25A-LEFS25	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	—
25A-LEFS32	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—
25A-LEFS40	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

∗ Please contact SMC for non-standard strokes as they are produced as special orders.

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

Compatible Motors and Mounting Types∗5

For details, refer to the Web Catalog.

Applicable motor model		Size/Mounting type														
Manufacturer	Series	25						32/40								
		NZ	NY	NX	NM1	NM2	NM3	NZ	NY	NX	NW	NV	NU	NT	NM1	NM2
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
YASKAWA Electric Corporation	Σ-V/7/X	●∗4	—	—	—	—	—	●	—	—	—	—	—	—	—	—
SANYO DENKI CO., LTD.	SANMOTION R	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
OMRON Corporation	OMNUC G5/1S	●	—	—	—	—	—	—	●	—	—	—	—	—	—	—
Panasonic Corporation	MINAS A5/A6	● (MHMF only)	●	—	—	—	—	—	●	—	—	—	—	—	—	—
FANUC CORPORATION	βis (-B)	●	—	—	—	—	—	● (β1 only)	—	—	●	—	—	—	—	—
NIDEC INSTRUMENTS CORPORATION	S-FLAG	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
KEYENCE CORPORATION	SV/SV2	●∗4	—	—	—	—	—	●	—	—	—	—	—	—	—	—
FUJI ELECTRIC CO., LTD.	ALPHA7	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
MinebeaMitsumi Inc.	Hybrid stepping motors	—	—	—	●∗1	—	●∗3	—	—	—	—	—	—	—	●∗2	—
Shinano Kenshi Co., Ltd.	CSB-BZ	—	—	—	●∗1	—	●∗3	—	—	—	—	—	—	—	—	—
ORIENTAL MOTOR Co., Ltd.	α STEP AR/AZ	—	—	—	—	● (46 only)	—	—	—	—	—	—	—	—	—	●∗2
FASTECH Co., Ltd.	Ezi-SERVO	—	—	—	●	—	—	—	—	—	—	—	—	—	●∗2	—
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/TL	● (TL only)	—	—	—	—	—	—	—	●∗1 (MP/VP only)	—	—	—	● (TL only)	—	—
Beckhoff Automation GmbH	AM 30/31/80/81	●	—	—	—	—	—	—	—	●∗1 (80/81 only)	—	●∗1 (30 only)	●∗2 (31 only)	—	—	—
Siemens AG	SIMOTICS S-1FK7	—	—	●	—	—	—	—	—	●∗1	—	—	—	—	—	—
Delta Electronics, Inc.	ASDA-A2	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
ANCA Motion	AMD2000	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—

∗1 Motor mounting position: In-line only ∗2 Only size 32 is available when the motor mounting position is right (or left) side parallel. ∗3 Motor mounting position: Right (or left) side parallel only
∗4 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.
∗5 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

High Rigidity Slider Type
Ball Screw Drive Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

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

LECY□ Series ▶p. 306

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

RoHS

How to Order

25A-LEJS H 40 S2 A – 500 □ – □ □ □ □

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

40
63

❸ Motor type

Symbol	Type	Output [W]	❷ Size	❾ Driver type	Compatible drivers
S2*1	AC servo motor (Incremental encoder)	100	40	A1/A2	LECSA□-S1
S3		200	63	A1/A2	LECSA□-S3
T6*2	AC servo motor (Absolute encoder)	100	40	B2	LECSB2-T5
				C2	LECSC2-T5
				S2	LECSS2-T5
T7		200	63	B2	LECSB2-T7
				C2	LECSC2-T7
				S2	LECSS2-T7

*1 For motor type S2, the compatible driver part number suffix is S1.
*2 For motor type T6, the compatible driver part number is LECS□2-T5.

❹ Lead [mm]

Symbol	25A-LEJS40	25A-LEJS63
H	24	30
A	16	20
B	8	10

❺ Stroke [mm]*3

200
to
1500

*3 Refer to the applicable stroke table for details.

❻ Motor option

Nil	Without option
B	With lock

❼ Cable type*5, *6, *7

Nil	Without cable
S	Standard cable
R	Robotic cable

*6 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
*7 Standard cable entry direction is "(A) Axis side."

❽ Cable length [m]*5, *8

Nil	Without cable
2	2
5	5
A	10

*8 The length of the motor, encoder, and lock cables are the same.

❾ Driver type*5

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
A1	LECSA1-S□	100 to 120
A2	LECSA2-S□	200 to 230
B2	LECSB2-T□	200 to 240
C2	LECSC2-T□	200 to 230
S2	LECSS2-T□	200 to 240

*5 When a driver type is selected, a cable is included. Select the cable type and cable length.
Example)
S2S2: Standard cable (2 m) + Driver (LECSS2)
S2: Standard cable (2 m)
Nil: Without cable and driver

❿ I/O cable length [m]*9

Nil	Without cable
H	Without cable (Connector only)
1	1.5

*9 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the **Web Catalog** if an I/O cable is required.

Applicable Stroke Table*4

●: Standard

Model \ Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40	●	●	●	●	●	●	●	●	●	●	—
25A-LEJS63	—	●	●	●	●	●	●	●	●	●	●

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

* The 25A- series specifications and dimensions are the same as those of the standard model.
For details, refer to the Web Catalog.

Compatible Drivers

Driver type	Pulse input type/ Positioning type	Pulse input type	CC-Link direct input type	SSCNETⅢ/H type
Series	LECSA	LECSB-T	LECSC-T	LECSS-T
Number of point tables	Up to 7	Up to 255	Up to 255 (2 stations occupied)	—
Pulse input	○	○	—	—
Applicable network	—	—	CC-Link	SSCNETⅢ/H
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Linear guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

High Rigidity Slider Type
Ball Screw Drive Secondary Battery Compatible

25A-LEJS Series LEJS40, 63

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

LECS□ Series ▶p. 305

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

RoHS

How to Order

25A-LEJS H 40 V6 A – 500 □ – □ □ □ □

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

40
63

❸ Motor type *1

Symbol	Type	Output [W]	❷ Size	❾ Driver type	Compatible drivers*2
V6	AC servo motor (Absolute encoder)	100	40	M2	LECYM2-V5
				U2	LECYU2-V5
V7		200	63	M2	LECYM2-V7
				U2	LECYU2-V7

*1 For motor type V6, the compatible driver part number suffix is V5.
*2 For details on the driver, refer to the **Web Catalog**.

❹ Lead [mm]

Symbol	25A-LEJS40	25A-LEJS63
H	24	30
A	16	20
B	8	10

❺ Stroke [mm]*3

200
to
1500

*3 Refer to the applicable stroke table for details.

❻ Motor option

Nil	Without option
B	With lock

❼ Cable type*5, *6, *7

Nil	Without cable
S	Standard cable
R	Robotic cable

*6 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
*7 Standard cable entry direction is "(A) Axis side."

❽ Cable length [m] *5, *8

Nil	Without cable
3	3
5	5
A	10
C	20

*8 The length of the motor, encoder, and lock cables are the same.

❾ Driver type *5

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

*5 When a driver type is selected, a cable is included. Select the cable type and cable length.
Example)
S2S2: Standard cable (2 m) + Driver (LECSS2)
S2: Standard cable (2 m)
Nil: Without cable and driver

❿ I/O cable length [m]*9

Nil	Without cable
H	Without cable (Connector only)
1	1.5

*9 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the **Web Catalog** if an I/O cable is required.

Applicable Stroke Table*4

●: Standard

Model \ Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40	●	●	●	●	●	●	●	●	●	●	—
25A-LEJS63	—	●	●	●	●	●	●	●	●	●	●

*4 Please contact SMC for non-standard strokes as they are produced as special orders.

Solid state auto switches should be ordered separately.
Click here for details on applicable auto switch models.

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

* The 25A- series specifications and dimensions are the same as those of the standard model.
For details, refer to the Web Catalog.

Compatible Drivers

Driver type	MECHATROLINK-Ⅱ type	MECHATROLINK-Ⅲ type
Series	LECYM	LECYU
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	

* Copper and zinc materials are used for the motors, cables, controllers/drivers, and auto switch magnets.

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Linear guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

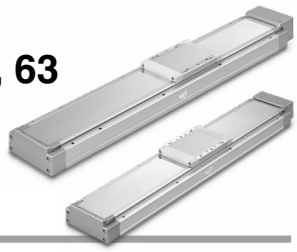
Motorless Type

Electric Actuator/High Rigidity Slider Type Ball Screw Drive

Secondary Battery Compatible

RoHS

25A-LEJS Series 25A-LEJS40, 63



How to Order

25A – LEJS H 40 NZ A – 500

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

40
63

❸ Mounting type

NZ
NY
NX
NW*1
NV*1
NU*1
NT*1

*1 Size 63 only

❹ Lead [mm]

Symbol	25A-LEJS40	25A-LEJS63
H	24	30
A	16	20
B	8	10

❺ Stroke [mm]

200
to
1500

* For details, refer to the table below.

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	200	300	400	500	600	700	800	900	1000	1200	1500
25A-LEJS40	●	●	●	●	●	●	●	●	●	●	—
25A-LEJS63	—	●	●	●	●	●	●	●	●	●	●

* Please contact SMC for non-standard strokes as they are produced as special orders.

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Compatible Motors and Mounting Types*2

Applicable motor model		Size/Mounting type									
Manufacturer	Series	40			63						
		NZ	NY	NX	NZ	NY	NX	NW	NV	NU	NT
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	●	—	—	●	—	—	—	—	—	—
YASKAWA Electric Corporation	Σ-V/7/X	●*1	—	—	●	—	—	—	—	—	—
SANYO DENKI CO., LTD.	SANMOTION R	●	—	—	●	—	—	—	—	—	—
OMRON Corporation	OMNUC G5/1S	●	—	—	—	●	—	—	—	—	—
Panasonic Corporation	MINAS A5/A6	● (MHMF only)	●	—	—	●	—	—	—	—	—
FANUC CORPORATION	βis (-B)	●	—	—	● (β1 only)	—	—	●	—	—	—
NIDEC INSTRUMENTS CORPORATION	S-FLAG	●	—	—	●	—	—	—	—	—	—
KEYENCE CORPORATION	SV/SV2	●*1	—	—	●	—	—	—	—	—	—
FUJI ELECTRIC CO., LTD.	ALPHA7	●	—	—	●	—	—	—	—	—	—
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/TL	● (TL only)	—	—	—	—	● (MP/VP only)	—	—	—	● (TL only)
Beckhoff Automation GmbH	AM 30/31/80/81	●	—	—	—	—	● (80/81 only)	—	● (30 only)	● (31 only)	—
Siemens AG	SIMOTICS S-1FK7	—	—	●	—	—	●	—	—	—	—
Delta Electronics, Inc.	ASDA-A2	●	—	—	●	—	—	—	—	—	—
ANCA Motion	AMD2000	●	—	—	●	—	—	—	—	—	—

*1 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.
*2 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

Replacement Parts/Grease Pack

Applied portion	Order no.
Ball screw Linear guide Dust seal band (Back side only)	GR-D-005 (5 g) GR-D-010 (10 g)

* The auto switch magnet contains copper and/or zinc.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Battery-less Absolute (Step Motor 24 VDC)

Rod Type Secondary Battery Compatible

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

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

How to Order

Motor mounting position: Parallel

Motor mounting position: In-line

25A-LEY 25 ❑ E B - 30 C ❑ ❑ - R1 CD17T

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

For details on controllers, refer to the next page.

❶ Size

16
25
32
40

❷ Motor mounting position/Motor cover direction

Symbol	Motor mounting position	Motor cover direction
Nil	Top side parallel	—
D	In-line	—*1
D1		Left*2
D2		Right*2
D3		Top*2
D4		Bottom*2

❸ Motor type

E	Battery-less absolute (Step motor 24 VDC)

❹ Lead [mm]

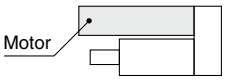
Symbol	LEY16	LEY25	LEY32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

❺ Stroke*3 [mm]

Stroke	Note	
	Size	Applicable stroke
30 to 300	16	30, 50, 100, 150, 200, 250, 300
30 to 400	25	30, 50, 100, 150, 200, 250, 300, 350, 400
30 to 500	32/40	30, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500

❻ Motor option*4

C	With motor cover
W	With lock/motor cover



❼ Rod end thread

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

❽ 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	●	—

❾ Actuator cable type/length

Robotic cable [m]

Nil	None	R8	8*10
R1	1.5	RA	10*10
R3	3	RB	15*10
R5	5	RC	20*10

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	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

*1 When ordering foot brackets, order 2 pieces per actuator.
*2 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

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

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∗11	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∗12

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet® CC-Link Ver. 1.10
T	T-branch type communication plug connector	
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)	

∗1 Sizes 25, 32, and 40 only
∗2 Size 16 only
∗3 Please contact SMC for non-standard strokes as they are produced as special orders.
∗4 When "With lock/motor cover" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 16 with strokes of 50 mm or less and size 40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
∗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.
· 25A-LEY25: 200 or less · 25A-LEY32/40: 100 or less
∗7 For the mounting of the double clevis type, use the actuator within the following stroke range.
· 25A-LEY16: 100 or less · 25A-LEY25: 200 or less · 25A-LEY32/40: 200 or less
∗8 The rod flange type is not available for the 25A-LEY16 with strokes of 50 mm or less and 25A-LEY40 with strokes of 30 mm or less, and motor option "With lock/motor cover."
∗9 The head flange type is not available for the 25A-LEY32/40.
∗10 Produced upon receipt of order
∗11 The DIN rail is not included. It must be ordered separately.
∗12 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

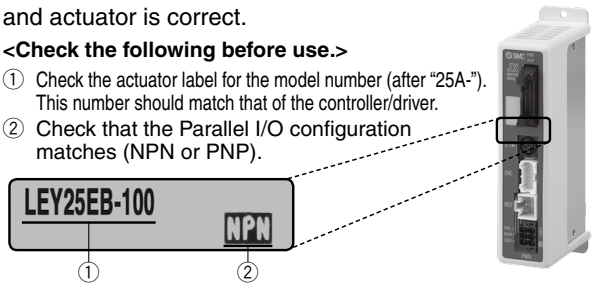
[CE/UKCA-compliant products]
EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC 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.

[Precautions relating to differences in controller versions]
When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the **Web Catalog**.

[UL certification]
The JXC series controllers used in combination with electric actuators are UL certified.

The actuator and controller are sold as a package.
Confirm that the combination of the controller 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

Type	Step data input 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	**JXC51 JXC61**	**JXCE1**	**JXCEF**	**JXC91**	**JXC9F**	**JXCP1**	**JXCPF**	**JXCD1**	**JXCL1**	**JXCLF**	**JXCM1**
Features	Parallel I/O	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	Battery-less absolute (Step motor 24 VDC)										
Max. number of step data	64 points										
Power supply voltage	24 VDC										

Battery-less Absolute (Step Motor 24 VDC)

High Performance

Rod Type Secondary Battery Compatible

25A-LEY□G Series 25A-LEY16, 25, 40

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

RoHS

How to Order

Motor mounting position: Parallel **Motor mounting position: In-line**

25A-LEY25□G B-50C□□-R1C5H73

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

For details on controllers, refer to page 306-5.

❶ Size

16
25
40

❷ Motor mounting position/ Motor cover direction

Symbol	Motor mounting position	Motor cover direction
Nil	Top side parallel	—
D	In-line	—*1
D1		Left side*2
D2		Right side*2
D3		Top side*2
D4		Bottom side*2

❸ Motor type

Symbol	Type	Compatible controllers
G	High performance Battery-less absolute (Step motor 24 VDC)	JXC5H JXCEH JXC6H JXC9H JXCPH

❹ Lead [mm]

Symbol	LEY16	LEY25	LEY40
A	10	12	16
B	5	6	8
C	2.5	3	4

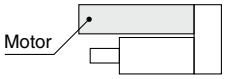
❺ Stroke*3 [mm]

30	30
to	to
500	500

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

❻ Motor option*4

C	With motor cover
W	With lock/motor cover



❼ Rod end thread

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

❽ Mounting*5

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

❾ Actuator cable type/length

Robotic cable [m]

Nil	None	R8	8*10
R1	1.5	RA	10*10
R3	3	RB	15*10
R5	5	RC	20*10

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	Flange	Double clevis
16	25-LEY-L016	25-LEY-F016	25-LEY-D016
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
40	25-LEY-L032	25-LEY-F032	25-LEY-D032

*1 When ordering foot brackets, order 2 pieces per actuator.
*2 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

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Size	Stroke [mm]											
	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
16	●	●	●	●	●	●	●	—	—	—	—	10 to 300
25	●	●	●	●	●	●	●	●	●	—	—	15 to 400
40	●	●	●	●	●	●	●	●	●	●	●	20 to 500

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⑩ Controller

Nil	Without controller
C□H□□	With controller

C 5 H 7 3

Interface (Communication protocol/Input/Output)

5	Parallel I/O (NPN)
6	Parallel I/O (PNP)
E	EtherCAT
9	EtherNet/IP™
P	PROFINET

Number of axes/ Special specification

H	1 axis/High performance type

Mounting

7	Screw mounting
8∗11	DIN rail

Communication plug connector, I/O cable∗12

Symbol	Type	Applicable interface
Nil	Without accessory	—
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)	

∗1 Sizes 25 and 40 only
∗2 Size 16 only
∗3 Please contact SMC for non-standard strokes as they are produced as special orders.
∗4 When "With lock/motor cover" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 16 with strokes of 50 mm or less and size 40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
∗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.
· 25A-LEY25: 200 or less · 25A-LEY40: 100 or less
∗7 For the mounting of the double clevis type, use the actuator within the following stroke range.
· 25A-LEY16: 100 or less · 25A-LEY25: 200 or less
· 25A-LEY40: 200 or less
∗8 The rod flange type is not available for the 25A-LEY16 with strokes of 50 mm or less and 25A-LEY40 with strokes of 30 mm or less, and motor option "With lock/motor cover."
∗9 The head flange type is not available for the 25A-LEY40.
∗10 Produced upon receipt of order
∗11 The DIN rail is not included. It must be ordered separately.
∗12 Select "Nil" for anything other than parallel input.
Select "Nil," "1," "3," or "5" for parallel input.

⚠Caution

[CE/UKCA-compliant products]
EMC compliance was tested by combining the electric actuator LEY series and the controller 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.

■Trademark

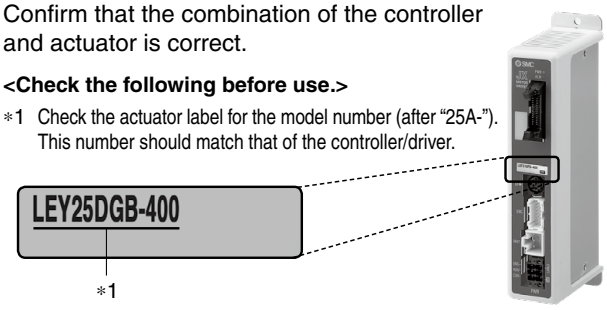
EtherNet/IP® is a registered trademark of ODVA, Inc.
EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

The actuator and controller are sold as a package.

Confirm that the combination of the controller 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.



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

Compatible Controllers

Type	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type
Series	**JXC5H JXC6H**	**JXCEH**	**JXC9H**	**JXCPH**
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input
Compatible motor	Battery-less absolute (Step motor 24 VDC)			
Max. number of step data	64 points			
Power supply voltage	24 VDC			

Incremental (Step Motor 24 VDC)

High Performance

Rod Type Secondary Battery Compatible

25A-LEY□F Series 25A-LEY16, 25, 40

RoHS

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

How to Order

Motor mounting position: Parallel **Motor mounting position: In-line**

25A-LEY25□F B-50C□□-S1C5H73

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

For details on controllers, refer to page 306-7.

❶ Size

16
25
40

❷ Motor mounting position/Motor cover direction

Symbol	Motor mounting position	Motor cover direction
Nil	Top side parallel	—
R	Right side parallel	—
L	Left side parallel	—
D	In-line	—*1
D1		Left side*2
D2		Right side*2
D3		Top side*2
D4		Bottom side*2

❸ Motor type

Symbol	Type	Compatible controllers
F	High performance (Step motor 24 VDC)	JXC5H JXCEH JXC6H JXC9H JXCPH

❹ Lead [mm]

Symbol	LEY16	LEY25	LEY40
A	10	12	16
B	5	6	8
C	2.5	3	4

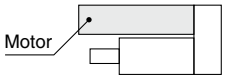
❺ Stroke*3 [mm]

30	30
to	to
500	500

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

❻ Motor option*4

C	With motor cover
W	With lock/motor cover



❼ Rod end thread

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

❽ Mounting*5

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

❾ Actuator cable type/length

Standard cable [m]

Nil	None
S1	1.5
S3	3
S5	5

Robotic cable [m]

R1	1.5	RA	10*10
R3	3	RB	15*10
R5	5	RC	20*10
R8	8*10		

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	Flange	Double clevis
16	25-LEY-L016	25-LEY-F016	25-LEY-D016
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
40	25-LEY-L032	25-LEY-F032	25-LEY-D032

*1 When ordering foot brackets, order 2 pieces per actuator.
* 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

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Size	Stroke [mm]											
	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
16	●	●	●	●	●	●	●	—	—	—	—	10 to 300
25	●	●	●	●	●	●	●	●	●	—	—	15 to 400
40	●	●	●	●	●	●	●	●	●	●	●	20 to 500

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)

* Copper and zinc materials are used for the motors, cables, controllers/drivers.
* The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

⑩ Controller

Nil	Without controller
C□H□□	With controller

C 5 H 7 3

Interface (Communication protocol/Input/Output)

5	Parallel I/O (NPN)
6	Parallel I/O (PNP)
E	EtherCAT
9	EtherNet/IP™
P	PROFINET

Number of axes/Special specification

H	1 axis/High performance type

Mounting

7	Screw mounting
8*11	DIN rail

Communication plug connector, I/O cable*12

Symbol	Type	Applicable interface
Nil	Without accessory	—
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)	

*1 Sizes 25 and 40 only
*2 Size 16 only
*3 Please contact SMC for non-standard strokes as they are produced as special orders.
*4 When "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 with strokes of 50 mm or less and size 40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
*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.
· 25A-LEY25: 200 or less · 25A-LEY40: 100 or less
*7 For the mounting of the double clevis type, use the actuator within the following stroke range.
· 25A-LEY16: 100 or less · 25A-LEY25: 200 or less
· 25A-LEY40: 200 or less
*8 The rod flange type is not available for the 25A-LEY16 with strokes of 50 mm or less and 25A-LEY40 with strokes of 30 mm or less, and motor option "With lock/motor cover."
*9 The head flange type is not available for the 25A-LEY40.
*10 Produced upon receipt of order
*11 The DIN rail is not included. It must be ordered separately.
*12 Select "Nil" for anything other than parallel input.
Select "Nil," "1," "3," or "5" for parallel input.

⚠Caution

[CE/UKCA-compliant products]
EMC compliance was tested by combining the electric actuator LEY series and the controller 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.

■Trademark

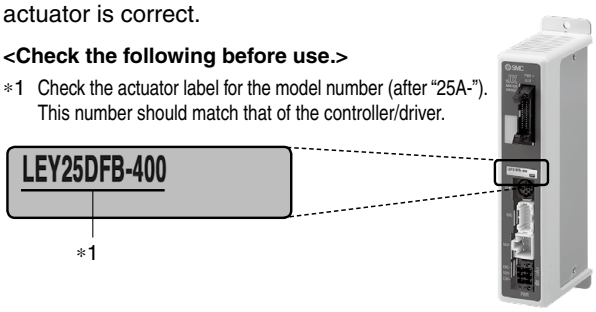
EtherNet/IP® is a registered trademark of ODVA, Inc.
EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

The actuator and controller are sold as a package.

Confirm that the combination of the controller 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.



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

Compatible Controllers

Type	Step data input type	EtherCAT direct input type	EtherNet/IP™ direct input type	PROFINET direct input type
Series	**JXC5H JXC6H**	**JXCEH**	**JXC9H**	**JXCPH**
Features	Parallel I/O	EtherCAT direct input	EtherNet/IP™ direct input	PROFINET direct input
Compatible motor	Step motor 24 VDC	Step motor (Servo/24 VDC)		
Max. number of step data	64 points	64 points		
Power supply voltage	24 VDC	24 VDC		

Incremental (Step Motor 24 VDC) | Incremental (Servo Motor 24 VDC)

Rod Type Secondary Battery Compatible

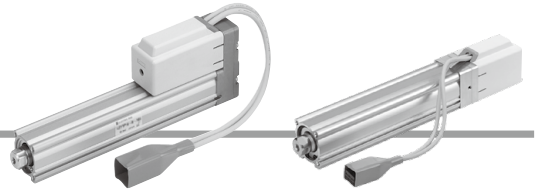
Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

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**

25A-LEY 16 ❶ ❷ ❸ B ❹ – 30 ❺ C ❻ ❼ ❽ – S1 ❾

Series compatible with secondary batteries

JXC□ Series **CD17T**

LEC□ Series **AN ❿ 1 ⓫ ⓬**

For details on controllers, refer to page 309.

❶ Size

16
25
32
40

❷ Motor mounting position

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

❸ 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

❹ Lead [mm]

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

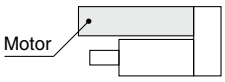
❺ Stroke [mm]

30	30
to	to
500	500

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

❻ Motor option∗2

C	With motor cover
W	With lock/motor cover



❼ Rod end thread

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

❽ 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	●	—

❾ Actuator cable type/length∗11

Standard cable [m]

Nil	None
S1	1.5∗12
S3	3∗12
S5	5∗12

Robotic cable [m]

R1	1.5	RA	10∗10
R3	3	RB	15∗10
R5	5	RC	20∗10
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.
Click here for details on applicable auto switch models.

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

●: Standard

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

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

For details, refer to the Web Catalog.

JXC□ Series (For details, refer to page 309.)

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® CC-Link Ver. 1.10
T	T-branch type communication plug connector	
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 309.)

AN 1 □
⑩ ⑪ ⑫

⑩ Controller/Driver type*12

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

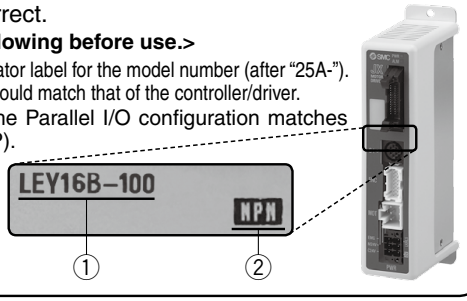
② For the incremental (servo motor 24 VDC) specification, EMC compliance was tested by installing a noise filter set (LEC-NFA). Refer to the **Web Catalog** for the noise filter set. Refer to the LECA series Operation Manual for installation.

[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

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									

Rod Type Secondary Battery Compatible

25A-LEY Series LEY25, 32

Size 25, 32

Refer to the "CE/UKCA/UL-compliance List" in the **Web Catalog**.

RoHS

LECY□ Series ▶p. 313

Refer to the Web Catalog for model selection.

How to Order

25A-LEY H 25 □ S2 B – 100 □ □ □ – S 2 A1 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32

❸ Motor mounting position

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

❹ Motor type

Symbol	Type	Output [W]	❷ Size	⓬ Driver type	Compatible drivers
S2*1	AC servo motor (Incremental encoder)	100	25	A1/A2	LECSA□-S1
S3		200	32	A1/A2	LECSA□-S3
T6*2	AC servo motor (Absolute encoder)	100	25	B2	LECSB2-T5
				C2	LECSC2-T5
				S2	LECSS2-T5
				N2	LECSN2-T5
				E2	LECSN2-T5-E
				92	LECSN2-T5-9
				P2	LECSN2-T5-P
T7		200	32	B2	LECSB2-T7
				C2	LECSC2-T7
				S2	LECSS2-T7
				ND2	LECSND2-T7
				ED2	LECSND2-T7-E
				9D2	LECSND2-T7-9
				PD2	LECSND2-T7-P

*1 For motor type S2, the compatible driver part number suffix is S1.
*2 For motor type T6, the compatible driver part number is LECS□2-T5.
* For details on the driver, refer to the **Web Catalog**.

❺ Lead [mm]

Symbol	LEY25	LEY32*1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

*1 The values shown in ( ) are the leads for the size 32 top/right/left side parallel motor types. (Equivalent leads which include the pulley ratio [1.25:1])

❻ Stroke [mm]

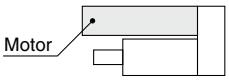
30	30
to	to
500	500

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

❼ Motor option

Nil	Without option
B	With lock*1

*1 When "With lock" 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 25 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.



❽ Rod end thread

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

❾ Mounting*1

Symbol	Type	Motor mounting position: Parallel	Motor mounting position: In-line
Nil	Ends tapped/ Body bottom tapped*2	●	●
L	Foot	●	—
F	Rod flange*2	●*4	●
G	Head flange*2	●*5	—
D	Double clevis*3	●	—

*1 The mounting bracket is shipped together with the product but does not come assembled.
*2 For the horizontal cantilever mounting of the rod flange, head flange, or ends tapped types, use the actuator within the following stroke range.
· 25A-LEY25: 200 mm or less
· 25A-LEY32: 100 mm or less
*3 For the mounting of the double clevis type, use the actuator within the following stroke range.
· 25A-LEY25: 200 mm or less
· 25A-LEY32: 200 mm or less
*4 The rod flange type is not available for the 25A-LEY25 with a 30 mm stroke and motor option "With lock."
*5 The head flange type is not available for the 25A-LEY32.

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	Flange	Double clevis
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

*1 When ordering foot brackets, order 2 pieces per actuator.
* 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

Solid state auto switches should be ordered separately.
Click here for details on applicable auto switch models.

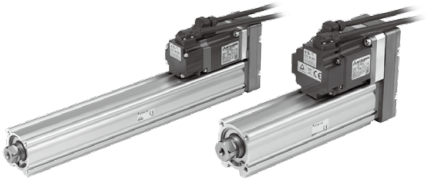
Applicable auto switches
D-M9N(V)-900, D-M9P(V)-900, D-M9B(V)-900
D-M9NW(V)-900, D-M9PW(V)-900, D-M9BW(V)-900

Applicable Stroke Table

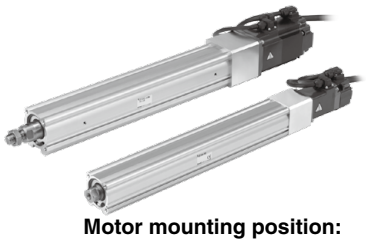
●: Standard

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

* Please contact SMC for non-standard strokes as they are produced as special orders.



Motor mounting position: Parallel



Motor mounting position: In-line

⑩ Cable type*1 *2

Nil	Without cable
S	Standard cable
R	Robotic cable

*1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
*2 Standard cable entry direction is
· Parallel: (A) Axis side
· In-line: (B) Counter axis side

⑪ Cable length*1 [m]

Nil	Without cable
2	2
5	5
A	10

*1 The length of the encoder, motor, and lock cables are the same.

⑫ Driver type*1

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
A1	LECSA1-S□	100 to 120
A2	LECSA2-S□	200 to 230
B2	LECSB2-T□	200 to 240
C2	LECSC2-T□	200 to 230
S2	LECSS2-T□	200 to 240
N2	LECSN2-T5	200 to 240
E2	LECSN2-T5-E	200 to 240
92	LECSN2-T5-9	200 to 240
P2	LECSN2-T5-P	200 to 240
ND2	LECSND2-T7	200 to 240
ED2	LECSND2-T7-E	200 to 240
9D2	LECSND2-T7-9	200 to 240
PD2	LECSND2-T7-P	200 to 240

*1 When a driver type is selected, a cable is included. Select the cable type and cable length.
Example)
S2S2: Standard cable (2 m) + Driver (LECSS2)
S2: Standard cable (2 m)
Nil: Without cable and driver
* When selecting "T6" for the motor type, select one of the following LECSN□-T series drivers: "N2," "E2," "92," or "P2."

⑬ I/O cable length [m]*1

Nil	Without cable
H	Without cable (Connector only)
1	1.5

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.
Refer to the **Web Catalog** if an I/O cable is required.

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

For details, refer to the Web Catalog.

Compatible Drivers

Driver type	**Pulse input type/ Positioning type**	**Pulse input type**	**CC-Link direct input type**	**SSCNETⅢ/H type**	**Network card type**
Series	**LECSA**	**LECSB-T**	**LECSC-T**	**LECSS-T**	**LECSN□-T**
Number of point tables*1	Up to 7	Up to 255	Up to 255 (2 stations occupied)	—	Up to 255
Pulse input	○	○	—	—	—
Applicable network	—	—	CC-Link	SSCNETⅢ/H	PROFINET EtherCAT EtherNet/IP™
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)

*1 The LECSN□-T point table mode is only available for PROFINET and EtherCAT.
* Copper and zinc materials are used for the motors, cables, controllers/drivers.

Rod Type Secondary Battery Compatible

25A-LEY Series LEY25, 32 Size 25, 32

LECS□ Series ▶p. 311

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

How to Order

25A-LEY H 25 □ V6 B – 100 □ □ □ – S 3 M2 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32

❸ Motor mounting position

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

❹ Motor type

Symbol	Type	Output [W]	❷ Size	⓬ Driver type	Compatible drivers
V6*1	AC servo motor (Absolute encoder)	100	25	M2	LECYM2-V5
				U2	LECYU2-V5
V7		200	32	M2	LECYM2-V7
				U2	LECYU2-V7

*1 For motor type V6, the compatible driver part number suffix is V5.

❺ Lead [mm]

Symbol	25A-LEY25	25A-LEY32*1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

*1 The values shown in ( ) are the leads for the size 32 top/right/left side parallel motor types. (Equivalent leads which include the pulley ratio [1.25:1])

❻ Stroke [mm]

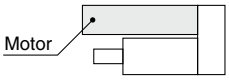
30	30
to	to
500	500

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

❼ Motor option

Nil	Without option
B	With lock*1

*1 When "With lock" 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 25 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.



❽ Rod end thread

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

❾ Mounting*1

Symbol	Type	Motor mounting position	
		Parallel	In-line
Nil	Ends tapped/ Body bottom tapped*2	●	●
L	Foot	●	—
F	Rod flange*2	●*4	●
G	Head flange*2	●*5	—
D	Double clevis*3	●	—

*1 The mounting bracket is shipped together with the product but does not come assembled.
*2 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: 100 mm or less
*3 For the mounting of the double clevis type, use the actuator within the following stroke range.
· LEY25: 200 mm or less · LEY32: 200 mm or less
*4 The rod flange type is not available for the LEY25 with a 30 mm stroke and motor option "With lock."
*5 The head flange type is not available for the LEY32.

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot*1	Flange	Double clevis
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32	25-LEY-L032	25-LEY-F032	25-LEY-D032
Surface treatment	RAYDENT®	RAYDENT®	Coating (Size 16: Electroless nickel plating)

*1 When ordering foot brackets, order 2 pieces per actuator.
* 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

Solid state auto switches should be ordered separately.
Click here for details on applicable auto switch models.

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

●: Standard

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

* Please contact SMC for non-standard strokes as they are produced as special orders.

Motor mounting position: Parallel

Motor mounting position: In-line

⑩ Cable type*1 *2

Nil	Without cable
S	Standard cable
R	Robotic cable

*1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
*2 Standard cable entry direction is "(A) Axis side".

⑪ Cable length [m]*1

Nil	Without cable
3	3
5	5
A	10
C	20

*1 The length of the motor and encoder cables are the same. (For with lock)

⑫ Driver type*1

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

*1 When a driver type is selected, a cable is included. Select the cable type and cable length.

⑬ I/O cable length [m]*1

Nil	Without cable
H	Without cable (Connector only)
1	1.5

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected.
Refer to the **Web Catalog** if an I/O cable is required.

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

For details, refer to the Web Catalog.

Compatible Drivers

	MECHATROLINK-Ⅱ type	MECHATROLINK-Ⅲ type
Driver type		
Series	**LECYM**	**LECYU**
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	

* Copper and zinc materials are used for the motors, cables, controllers/drivers.

Motorless Type

Electric Actuator
Rod Type Secondary Battery Compatible

25A-LEY Series 25A-LEY25, 32

RoHS

How to Order

25A-LEY H 25 NZ B-100

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32

❸ Motor mounting position

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

❹ Mounting type

NZ	NU
NY	NT
NX	NM1
NW	NM2
NV	NM3

❺ Lead [mm]

Symbol	LEY25	LEY32
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

∗ The values shown in ( ) are the leads for the top/right/left side parallel motor types. Except mounting type NM1 (Equivalent leads which include the pulley ratio [1.25:1])

❻ Stroke [mm]

30	30
to	to
500	500

∗ Refer to the applicable stroke table.

❼ Rod end thread

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

❽ Mounting∗1

Symbol	Type	Motor mounting position: Parallel	Motor mounting position: In-line
Nil	Ends tapped/Body bottom tapped∗2	●	●
L	Foot	●	—
F	Rod flange∗2	●∗4	●
G	Head flange∗2	●∗5	—
D	Double clevis∗3	●	—

∗1 The mounting bracket is shipped together with the product but does not come assembled.
∗2 For the horizontal cantilever mounting with the ends tapped, rod flange, or head flange types, use the actuator within the following stroke range.
· 25A-LEY25: 200 mm or less, 25A-LEY32: 100 mm or less
∗3 For the mounting with the double clevis type, use the actuator within the following stroke range.
· 25A-LEY25: 200 mm or less, 25A-LEY32: 200 mm or less
∗4 If the stroke of the 25A-LEY25 is 30 mm or less, the rod flange may interfere with the motor.
∗5 The head flange type is not available for the in-line type and the 25A-LEY32.

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range
LEY25	●	●	●	●	●	●	●	●	●	—	—	15 to 400
LEY32	●	●	●	●	●	●	●	●	●	●	●	20 to 500

∗ Please contact SMC for non-standard strokes as they are produced as special orders.

Mounting Bracket Part Nos. for the 25A- Series

Applicable size	Foot∗1	Flange	Double clevis
25	25-LEY-L025	25-LEY-F025	25-LEY-D025
32	25-LEY-L032	25-LEY-F032	25-LEY-D032

∗1 When ordering foot brackets, order 2 pieces per actuator.
∗ 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

Compatible Motors and Mounting Types∗4

Applicable motor model: Manufacturer	Series	Size/Mounting type: 25 NZ	25 NY	25 NX	25 NM1	25 NM2	25 NM3	32 NZ	32 NY	32 NX	32 NW	32 NV	32 NU	32 NT	32 NM1	32 NM2
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
YASKAWA Electric Corporation	Σ-V/7/X	●∗3	—	—	—	—	—	●	—	—	—	—	—	—	—	—
SANYO DENKI CO., LTD.	SANMOTION R	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
OMRON Corporation	OMNUC G5/1S	●	—	—	—	—	—	—	●	—	—	—	—	—	—	—
Panasonic Corporation	MINAS A5/A6	● (MHMF only)	●	—	—	—	—	—	●	—	—	—	—	—	—	—
FANUC CORPORATION	βis (-B)	●	—	—	—	—	—	● (β1 only)	—	—	●	—	—	—	—	—
NIDEC INSTRUMENTS CORPORATION	S-FLAG	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
KEYENCE CORPORATION	SV/SV2	●∗3	—	—	—	—	—	●	—	—	—	—	—	—	—	—
FUJI ELECTRIC CO., LTD.	ALPHA7	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
MinebeaMitsumi Inc.	Hybrid stepping motors	—	—	—	●∗1	—	●∗2	—	—	—	—	—	—	—	●	—
Shinano Kenshi Co., Ltd.	CSB-BZ	—	—	—	●∗1	—	●∗2	—	—	—	—	—	—	—	—	—
ORIENTAL MOTOR Co., Ltd.	α STEP AR/AZ	—	—	—	—	● AR/AZ (46 only)	—	—	—	—	—	—	—	—	—	●
FASTECH Co., Ltd.	Ezi-SERVO	—	—	—	●	—	—	—	—	—	—	—	—	—	●	—
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/TL	● (TL only)	—	—	—	—	—	—	—	●∗1 (MP/VP only)	—	—	—	● (TL only)	—	—
Beckhoff Automation GmbH	AM 30/31/80/81	●	—	—	—	—	—	—	—	●∗1 (AM80/AM81 only)	—	●∗1 (AM30 only)	● (AM31 only)	—	—	—
Siemens AG	SIMOTICS S-1FK7	—	—	●	—	—	—	—	—	●∗1	—	—	—	—	—	—
Delta Electronics, Inc.	ASDA-A2	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
ANCA Motion	AMD2000	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—

∗1 Motor mounting position: In-line only ∗2 Motor mounting position: Parallel only
∗3 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.
∗4 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g) GR-D-010 (10 g)

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

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

For details, refer to the Web Catalog.

Incremental (Step Motor 24 VDC) Incremental (Servo Motor 24 VDC)

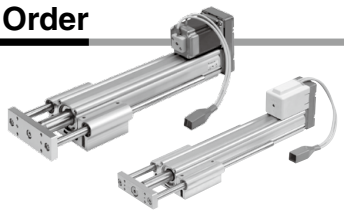
Guide Rod Type Secondary Battery Compatible

25A-LEYG Series 25A-LEYG16, 25, 32, 40

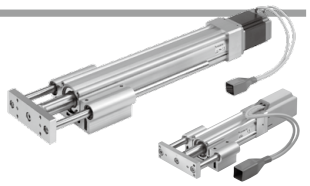
RoHS

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

How to Order



Motor mounting position: Parallel



Motor mounting position: In-line

25A-LEYG 16 M ☐ ☐ B - 50 C ☐ - S1

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾

JXC☐ Series

CD17T

LEC☐ Series

AN **1** ☐

❿ ⓫ ⓬

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

❶ Size

16
25
32
40

❷ Bearing type∗1

M	Sliding bearing
L	Ball bushing bearing

❸ Motor mounting position

Nil	Top side parallel
D	In-line

❹ Motor type

Symbol	Type	Applicable size			Compatible controllers/drivers
		LEYG16	LEYG25	LEYG32/40	
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

❺ Lead [mm]

Symbol	LEYG16	LEYG25	LEYG32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

❻ Stroke∗2 ∗3 [mm]

30	30
to	to
300	300

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

❼ Motor option∗4

C	With motor cover
W	With lock/motor cover

❽ Guide option∗5

Nil	Without option
F	With grease retaining function∗15

∗15 Only applicable for sizes 25, 32, and 40 with the sliding bearing

❾ Actuator cable type/length∗7

Standard cable [m]

Nil	None
S1	1.5∗9
S3	3∗9
S5	5∗9

Robotic cable [m]

R1	1.5	RA	10∗6
R3	3	RB	15∗6
R5	5	RC	20∗6
R8	8∗6		

Applicable Stroke Table∗2

●: Standard

Model \ Stroke [mm]	30	50	100	150	200	250	300	Manufacturable stroke range [mm]
LEYG16	●	●	●	●	●	—	—	10 to 200
LEYG25	●	●	●	●	●	●	●	15 to 300
LEYG32/40	●	●	●	●	●	●	●	20 to 300

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g)
Guide rod	GR-D-010 (10 g)

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.
∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

JXC□ Series (For details, refer to page 547.)

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*13	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*14

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet® CC-Link Ver. 1.10
T	T-branch type communication plug connector	
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 the **Web Catalog**.)

AN 1 □
⑩ ⑪ ⑫

⑩ Controller/Driver type*8

Nil	Without controller/driver	
6N	**LECA6** (Step data input type)	NPN
6P		PNP
1N	**LECP1***9 (Programless type)	NPN
1P		PNP
AN	**LECPA***9 *10 (Pulse input type)	NPN
AP		PNP

⑪ I/O cable length*11

Nil	Without cable (Without communication plug connector)
1	1.5 m
3	3 m*12
5	5 m*12

⑫ Controller/Driver mounting

Nil	Screw mounting
D	DIN rail*13

*1 When [M: Sliding bearing] is selected, the max. speed of lead [A] is 400 mm/s (at no-load, horizontal mounting). The speed is also restricted with a horizontal/moment load. Refer to the "Model Selection" on the **Web Catalog**.
*2 Please contact SMC for non-standard strokes as they are produced as special orders.
*3 There is a limit for mounting the size 32/40 top side parallel motor types and strokes of 50 mm or less. Refer to the dimensions.
*4 When "With lock" or "With lock/motor cover" is selected for the top side parallel motor type, 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.
*5 Only available for size 25, 32, and 40 sliding bearings (Refer to the "Construction" on the **Web Catalog**.)
*6 Produced upon receipt of order (Robotic cable only)
*7 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.
*8 For details on controllers/drivers and compatible motors, refer to the compatible controllers/drivers on the next page.
*9 Only available for the motor type "Step motor"
*10 When pulse signals are open collector, order the current limiting resistor (LEC-PA-R-□) on separately.
*11 When "Without controller/driver" is selected for controller/driver types, I/O cable cannot be selected. Refer to the **Web Catalog** if an I/O cable is required.
*12 When "Pulse input type" is selected for controller/driver types, pulse input usable only with differential. Only 1.5 m cables u-able with open collector
*13 The DIN rail is not included. It must be ordered separately.
*14 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 incremental (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.

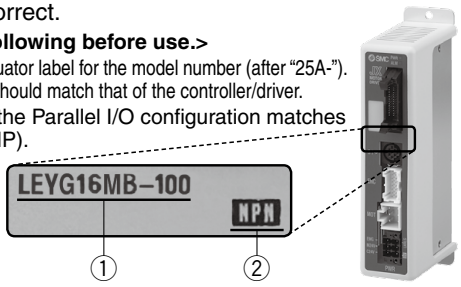
[UL-compliant products (For the LEC series)]
When compliance with UL is required, the electric actuator and controller/driver should be used with a UL1310 Class 2 power supply.

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

Battery-less Absolute (Step Motor 24 VDC)

Guide Rod Type Secondary Battery Compatible

25A-LEYG Series 25A-LEYG16, 25, 32, 40

CE UKCA RoHS

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

How to Order

25A-LEYG 25 M ☐ E B - 50 C ☐ - R1 CD17T

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿

Series compatible with secondary batteries

For details on controllers, refer to the next page.

❶ Size

16
25
32
40

❷ Bearing type∗1

M	Sliding bearing
L	Ball bushing bearing

❸ Motor mounting position/Motor cover direction

Symbol	Motor mounting position	Motor cover direction
Nil	Top side parallel	—
D	In-line	—∗2
D1		Left∗3
D2		Right∗3
D3		Top∗3
D4		Bottom∗3

❹ Motor type

E	Battery-less absolute (Step motor 24 VDC)

❺ Lead [mm]

Symbol	LEYG16	LEYG25	LEYG32/40
A	10	12	16
B	5	6	8
C	2.5	3	4

❻ Stroke∗4 ∗5 [mm]

Stroke	Note	
	Size	Applicable stroke
30 to 200	16	30, 50, 100, 150, 200
30 to 300	25/32/40	30, 50, 100, 150, 200, 250, 300

❼ Motor option∗6

C	With motor cover
W	With lock/motor cover

❽ Guide option∗7

Nil	Without option
F	With grease retaining function∗11

∗11 Only applicable for sizes 25, 32, and 40 with the sliding bearing

❾ Actuator cable type/length

Robotic cable [m]

Nil	None	R8	8∗8
R1	1.5	RA	10∗8
R3	3	RB	15∗8
R5	5	RC	20∗8

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g)
Guide rod	GR-D-010 (10 g)

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.
∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

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∗9	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∗10

Symbol	Type	Applicable interface
Nil	Without accessory	—
S	Straight type communication plug connector	DeviceNet® CC-Link Ver. 1.10
T	T-branch type communication plug connector	
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)	

∗1 When [M: Sliding bearing] is selected, the maximum speed of lead [A] is 400 mm/s (at no-load, horizontal mounting). The speed is also restricted with a horizontal/moment load. Refer to the "Model Selection" on the **Web Catalog**.
∗2 Sizes 25, 32, and 40 only
∗3 Size 16 only
∗4 Please contact SMC for non-standard strokes as they are produced as special orders.
∗5 There is a limit for mounting size 16/32/40 top side parallel motor types and strokes of 50 mm or less. Refer to the dimensions.
∗6 When "With lock/motor cover" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 16 with strokes of 50 mm or less and size 40 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.
∗7 Only available for size 25, 32, and 40 sliding bearings (Refer to the "Construction" on the **Web Catalog**.)
∗8 Produced upon receipt of order
∗9 The DIN rail is not included. It must be ordered separately.
∗10 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

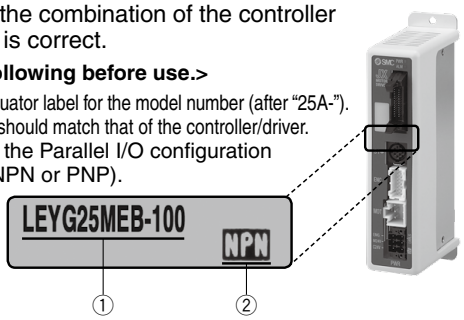
[CE/UKCA-compliant products]
EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.
The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC 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.
[Precautions relating to differences in controller versions]
When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the **Web Catalog**.
[UL certification]
The JXC series controllers used in combination with electric actuators are UL certified.

The actuator and controller are sold as a package.

Confirm that the combination of the controller 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

Type	Step data input 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	**JXC51 JXC61**	**JXCE1**	**JXCEF**	**JXC91**	**JXC9F**	**JXCP1**	**JXCPF**	**JXCD1**	**JXCL1**	**JXCLF**	**JXCM1**
Features	Parallel I/O	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	Battery-less absolute (Step motor 24 VDC)										
Max. number of step data	64 points										
Power supply voltage	24 VDC										

AC Servo Motor *LECS□ Series*

Guide Rod Type Secondary Battery Compatible

25A-LEYG Series 25A-LEYG25, 32

LECY□ Series ▶ p. 314-8

CE UKCA c UL us RoHS

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

How to Order

25A – LEY H G 25 M □ S2 B – 100 □ □ – S 2 A1 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32

❸ Bearing type

M	Sliding bearing
L	Ball bushing bearing

❹ Motor mounting position

Nil	Top side parallel
D	In-line

❺ Motor type∗1

Symbol	Type	Output [W]	❷ Size	⓬ Driver type	Compatible drivers∗3
S2∗1	AC servo motor (Incremental encoder)	100	25	A1/A2	LECSA□-S1
S3		200	32	A1/A2	LECSA□-S3
T6∗2	AC servo motor (Absolute encoder)	100	25	B2	LECSB2-T5
				C2	LECSC2-T5
				S2	LECSS2-T5
				N2	LECSN2-T5
				E2	LECSN2-T5-E
				92	LECSN2-T5-9
				P2	LECSN2-T5-P
T7		200	32	B2	LECSB2-T7
				C2	LECSC2-T7
				S2	LECSS2-T7
				ND2	LECSND2-T7
				ED2	LECSND2-T7-E
				9D2	LECSND2-T7-9
				PD2	LECSND2-T7-P

∗1 For motor type S2, the compatible driver part number suffix is S1.
∗2 For motor type T6, the compatible driver part number is LECS□2-T5.
∗3 For details on the driver, refer to the **Web Catalog**.

❻ Lead [mm]

Symbol	LEYG25	LEYG32∗1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

∗1 The values shown in ( ) are the leads for the size 32 top side parallel motor type. (Equivalent leads which include the pulley ratio [1.25:1])

❼ Stroke [mm]

30	30
to	to
300	300

∗ For details, refer to the applicable stroke table below.
∗ There is a limit for mounting the size 32 top side parallel motor type and strokes of 50 mm or less. Refer to the dimensions.

❽ Motor option

Nil	Without option
B	With lock

❾ Guide option

Nil	Without option
F	With grease retaining function∗1

∗1 Only available for sliding bearings

⓫ Cable length∗1 [m]

Nil	Without cable
2	2
5	5
A	10

∗1 The length of the motor, encoder, and lock cables are the same.

❿ Cable type∗1 ∗2

Nil	Without cable
S	Standard cable
R	Robotic cable

∗1 A motor cable and encoder cable are included with the product. (A lock cable is also included if motor option "B: With lock" is selected.)
∗2 Standard cable entry direction is
- Top side parallel: (A) Axis side
- In-line: (B) Counter axis side

(Refer to the **Web Catalog** for details.)

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g)
Guide rod	GR-D-010 (10 g)

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

●: Standard

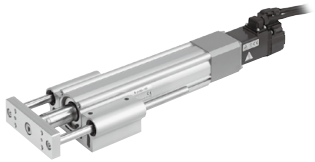
Model \ Stroke [mm]	30	50	100	150	200	250	300	Manufacturable stroke range
LEYG25	●	●	●	●	●	●	●	15 to 300
LEYG32	●	●	●	●	●	●	●	20 to 300

∗ Please contact SMC for non-standard strokes as they are produced as special orders.

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.
∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Motor mounting position: Parallel


Motor mounting position: In-line

⓬ Driver type*1

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
A1	LECSA1-S□	100 to 120
A2	LECSA2-S□	200 to 230
B2	LECSB2-T□	200 to 240
C2	LECSC2-T□	200 to 230
S2	LECSS2-T□	200 to 240
N2	LECSN2-T5	200 to 240
E2	LECSN2-T5-E	200 to 240
92	LECSN2-T5-9	200 to 240
P2	LECSN2-T5-P	200 to 240
ND2	LECSND2-T7	200 to 240
ED2	LECSND2-T7-E	200 to 240
9D2	LECSND2-T7-9	200 to 240
PD2	LECSND2-T7-P	200 to 240

*1 When a driver type is selected, a cable is included. Select the cable type and cable length.
Example)
S2S2: Standard cable (2 m) + Driver (LECSS2)
S2: Standard cable (2 m)
Nil: Without cable and driver

* When selecting "T6" for the motor type, select one of the following LECSN□-T series drivers: "N2," "E2," "92," or "P2."

⓭ I/O cable length [m]*1

Nil	Without cable
H	Without cable (Connector only)
1	1.5

*1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the **Web Catalog** if an I/O cable is required.

Compatible Drivers

Driver type	**Pulse input type/ Positioning type**	**Pulse input type**	**CC-Link direct input type**	**SSCNETⅢ/H type**	**Network card type**
Series	**LECSA**	**LECSB-T**	**LECSC-T**	**LECSS-T**	**LECSN□-T**
Number of point tables*1	Up to 7	Up to 255	Up to 255 (2 stations occupied)	—	Up to 255
Pulse input	○	○	—	—	—
Applicable network	—	—	CC-Link	SSCNETⅢ/H	PROFINET EtherCAT EtherNet/IP™
Control encoder	Incremental 17-bit encoder	Absolute 22-bit encoder	Absolute 18-bit encoder	Absolute 22-bit encoder	Absolute 22-bit encoder
Communication function	USB communication	USB communication, RS422 communication	USB communication, RS422 communication	USB communication	USB communication
Power supply voltage [V]	100 to 120 VAC (50/60 Hz) 200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 230 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)	200 to 240 VAC (50/60 Hz)

*1 The LECSN□-T point table mode is only available for PROFINET and EtherCAT.

AC Servo Motor *LECY□ Series*

Guide Rod Type Secondary Battery Compatible

25A-LEYG Series 25A-LEYG25, 32

∗ For details, refer to the Web Catalog.

LECS□ Series ▶p. 314-6

RoHS

How to Order

25A – LEY H G 25 M □ V6 B – 200 □ □ – S 3 M2 □

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽ ❾ ❿ ⓫ ⓬ ⓭

Series compatible with secondary batteries

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32

❸ Bearing type

M	Sliding bearing
L	Ball bushing bearing

❹ Motor mounting position

Nil	Top side parallel
D	In-line

❺ Motor type

Symbol	Type	Output [W]	❷ Size	⓬ Driver type	Compatible drivers
V6∗1	AC servo motor (Absolute encoder)	100	25	M2	LECYM2-V5
				U2	LECYU2-V5
V7		200	32	M2	LECYM2-V7
				U2	LECYU2-V7

∗1 For motor type V6, the compatible driver part number suffix is V5.

❻ Lead [mm]

Symbol	LEYG25	LEYG32∗1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

∗1 The values shown in ( ) are the leads for the top side parallel motor type. (Equivalent leads which include the pulley ratio [1.25:1])

❼ Stroke [mm]

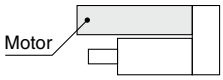
30	30
to	to
300	300

∗ For details, refer to the applicable stroke table below.
∗ There is a limit for mounting the size 32 top side parallel motor type and strokes of 50 mm or less. Refer to the dimensions.

❽ Motor option

Nil	Without option
B	With lock

∗ When "With lock" is selected for the top side parallel motor type, the motor body will stick out from the end of the body for size 25 with strokes of 30 mm or less. Check for interference with workpieces before selecting a model.



❾ Guide option

Nil	Without option
F	With grease retaining function

∗ Only available for the sliding bearing

❿ Cable type∗1

Nil	Without cable
S	Standard cable
R	Robotic cable

∗1 A motor cable and encoder cable are included with the product.
The motor cable for lock option is included when the motor with lock option is selected.

⓫ Cable length [m]∗1

Nil	Without cable
3	3
5	5
A	10
C	20

∗1 The length of the motor and encoder cables are the same. (For with lock)

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	30	50	100	150	200	250	300	Manufacturable stroke range
LEYG25	●	●	●	●	●	●	●	15 to 300
LEYG32	●	●	●	●	●	●	●	20 to 300

∗ Please contact SMC for non-standard strokes as they are produced as special orders.

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod	GR-D-005 (5 g)
Guide rod	GR-D-010 (10 g)

∗ Copper and zinc materials are used for the motors, cables, controllers/drivers.
∗ The 25A- series specifications and dimensions are the same as those of the standard model.

For details, refer to the Web Catalog.

Motor mounting position: Parallel

Motor mounting position: In-line

⓬ Driver type

	Compatible drivers	Power supply voltage [V]
Nil	Without driver	—
M2	LECYM2-V□	200 to 230
U2	LECYU2-V□	200 to 230

∗ When a driver type is selected, a cable is included. Select the cable type and cable length.

⓭ I/O cable length [m]∗1

Nil	Without cable
H	Without cable (Connector only)
1	1.5

∗1 When "Nil: Without driver" is selected for the driver type, only "Nil: Without cable" can be selected. Refer to the **Web Catalog** if an I/O cable is required.

Compatible Drivers

Driver type	MECHATROLINK-Ⅱ type	MECHATROLINK-Ⅲ type
Series	**LECYM**	**LECYU**
Applicable network	MECHATROLINK-Ⅱ	MECHATROLINK-Ⅲ
Control encoder	Absolute 20-bit encoder	
Communication device	USB communication, RS-422 communication	
Power supply voltage [V]	200 to 230 VAC (50/60 Hz)	

Motorless Type

Electric Actuator Guide Rod Type

Secondary Battery Compatible

RoHS

25A-LEYG Series 25A-LEYG25, 32

How to Order

25A-LEY H G 25 M ☐ NZ B-200 ☐

Series compatible with secondary batteries

❶ ❷ ❸ ❹ ❺ ❻ ❼ ❽

❶ Accuracy

Nil	Basic type
H	High-precision type

❷ Size

25
32

❸ Bearing type

M	Sliding bearing
L	Ball bushing bearing

❹ Motor mounting position

Nil	Top side parallel
D	In-line

❺ Mounting type

NZ
NY
NX
NW
NV
NU
NT
NM1
NM2
NM3

∗ Refer to the "Compatible Motors."

❻ Lead [mm]

Symbol	LEYG25	LEYG32∗1
A	12	16 (20)
B	6	8 (10)
C	3	4 (5)

∗1 The values shown in ( ) are the leads for the size 32 top side parallel motor type. Except mounting type NM1 (Equivalent leads which include the pulley ratio [1.25:1])

❼ Stroke [mm]

30	30
to	to
300	300

∗ Refer to the applicable stroke table.

❽ Guide option

Nil	Without option
F	With grease retaining function

∗ Only available for sliding bearing

Applicable Stroke Table

●: Standard

Model \ Stroke [mm]	30	50	100	150	200	250	300	Manufacturable stroke range
LEYG25	●	●	●	●	●	●	●	15 to 300
LEYG32	●	●	●	●	●	●	●	20 to 300

∗ Please contact SMC for non-standard strokes as they are produced as special orders.

Replacement Parts/Grease Pack

Applied portion	Order no.
Piston rod Guide rod	GR-D-005 (5 g) GR-D-010 (10 g)

Compatible Motors and Mounting Types∗4

Applicable motor model		Size/Mounting type														
Manufacturer	Series	25						32								
		NZ	NY	NX	NM1	NM2	NM3	NZ	NY	NX	NW	NV	NU	NT	NM1	NM2
Mitsubishi Electric Corporation	MELSERVO JN/J4/J5	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
YASKAWA Electric Corporation	Σ-V/7/X	●∗3	—	—	—	—	—	●	—	—	—	—	—	—	—	—
SANYO DENKI CO., LTD.	SANMOTION R	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
OMRON Corporation	OMNUC G5/1S	●	—	—	—	—	—	—	●	—	—	—	—	—	—	—
Panasonic Corporation	MINAS A5/A6	● (MHMF only)	●	—	—	—	—	—	●	—	—	—	—	—	—	—
FANUC CORPORATION	βis (-B)	●	—	—	—	—	—	● (β1 only)	—	—	●	—	—	—	—	—
NIDEC INSTRUMENTS CORPORATION	S-FLAG	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
KEYENCE CORPORATION	SV/SV2	●∗3	—	—	—	—	—	●	—	—	—	—	—	—	—	—
FUJI ELECTRIC CO., LTD.	ALPHA7	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
MinebeaMitsumi Inc.	Hybrid stepping motors	—	—	—	●∗1	—	●∗2	—	—	—	—	—	—	—	●	—
Shinano Kenshi Co., Ltd.	CSB-BZ	—	—	—	●∗1	—	●∗2	—	—	—	—	—	—	—	—	—
ORIENTAL MOTOR Co., Ltd.	α STEP AR/AZ	—	—	—	—	● AR/AZ (46 only)	—	—	—	—	—	—	—	—	—	●
FASTECH Co., Ltd.	Ezi-SERVO	—	—	—	●	—	—	—	—	—	—	—	—	—	●	—
Rockwell Automation, Inc. (Allen-Bradley)	Kinetix MP/VP/TL	● (TL only)	—	—	—	—	—	—	—	●∗1 (MP/VP only)	—	—	—	● (TL only)	—	—
Beckhoff Automation GmbH	AM 30/31/80/81	●	—	—	—	—	—	—	—	●∗1 (AM80/AM81 only)	—	●∗1 (AM30 only)	● (AM31 only)	—	—	—
Siemens AG	SIMOTICS S-1FK7	—	—	●	—	—	—	—	—	●∗1	—	—	—	—	—	—
Delta Electronics, Inc.	ASDA-A2	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—
ANCA Motion	AMD2000	●	—	—	—	—	—	●	—	—	—	—	—	—	—	—

∗1 Motor mounting position: In-line only ∗2 Motor mounting position: Parallel only
∗3 For some motors, the connector may protrude from the motor body. Be sure to check for interference with the mounting surface before selecting a motor.
∗4 The compatible motors and mounting types are typical examples. Select the mounting type after referring to the "Motor Mounting, Applicable Motor Dimensions" tables on the "Dimensions" pages.

Solid state auto switches should be ordered separately.
Click here for auto switch details.

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

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

For details, refer to the Web Catalog.