Electric Actuator High Performance Slider Type CE CA

Battery-less Absolute (Step Motor 24 VDC)





Reduces cycle time

Cycle time

Reduced by 39% (0.57 s = 0.93 s) compared with the existing model^{*1} *1 When LEFS25GH-400 is operated from 0 to 400 mm

Acceleration/ **Deceleration**

10000 mm/s²

(334% increase compared with the existing model)

Max. speed

1500 mm/s (Improved by 25% compared with the existing model)

New JXC5H/6H Series Speed [V] Existing model

Time [T]



Higher acceleration and maximum speed can be set with the special controller (for LEFS G Series).

> Parallel I/O JXC5H/6H Series p. 43

PROFINET JXCEH/9H/PH Series p. 50

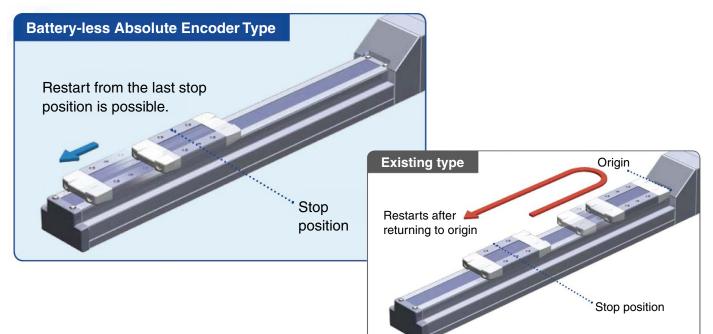




Battery-less absolute encoder compatible

Easy operation restart after recovery of the power supply

The battery-less absolute encoder mounted on the motor retains position information at all times, regardless of whether the control power supply is ON or OFF. A return to origin operation is not necessary when the power supply is recovered.



Maintenance labor can be reduced as the product does not require the use of batteries.

Batteries are not required to store the position information. Therefore, there is no need to store spare batteries or to recycle and replace dead batteries.



SMC



Controllers JXC Series

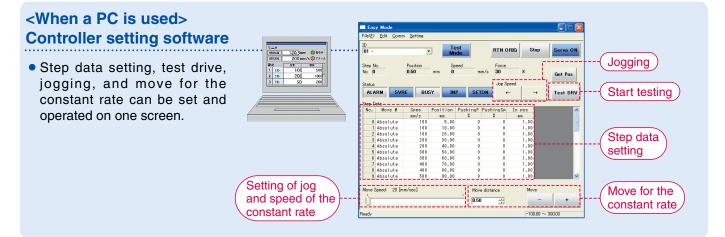
Step Data Input Type JXC5H/6H Series p.43

Simple setting allows for immediate use!

○ "Easy Mode" for simple setting

For immediate use, select "Easy Mode."



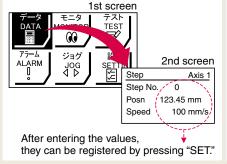


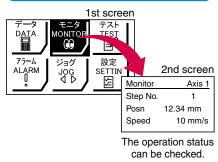
<When a TB (teaching box) is used>

- The simple screen without scrolling promotes ease of setting and operation.
- Choose an icon from the first screen to select a function.
- Set the step data and check the monitor on the second screen.



Example of setting the step data





Example of checking the operation status

Teaching box screen

• Data can be set by inputting only the position and speed. (Other conditions are preset.)

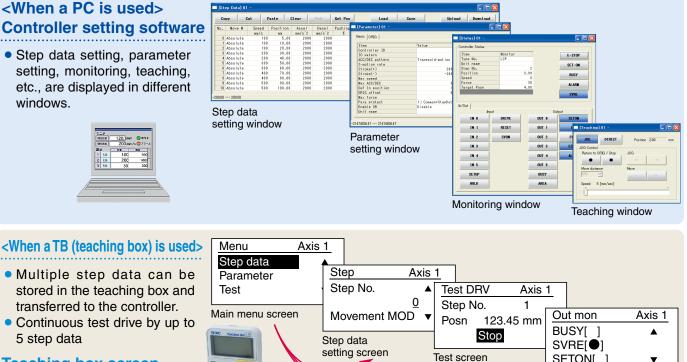
Step	Axis 1	Step	Axis 1
Step No.	0	Step No.	1
Posn	50.00 mm	Posn	80.00 mm
Speed	200 mm/s	Speed	100 mm/s

Step Data Input Type JXC5H/6H Series

O "Normal Mode" for detailed setting

Select "Normal Mode" when detailed setting is required.

- Step data can be set in detail.
- Signals and terminal status can be monitored.
- Parameters can be set.
- JOG and constant rate movement, return to origin, test drive, and testing of forced output can be performed.



Teaching box screen

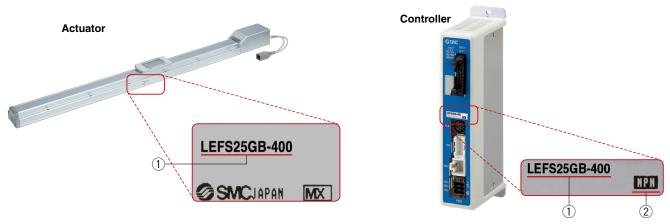
 Each function (step data setting, test drive, monitoring, etc.) can be selected from the main menu.

		reaching wi	nuow
Step Axis Step No. ▲ Movement MOD ▼ Step data	Test DRV Axis Step No. 1	1_ Out mon BUSY[] SVRE[●] SETON[]	Axis 1 ▲ ▼
		Monitoring screer	ו

The actuator and controller are provided as a set. (They can be ordered separately as well.)

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. This number should match that of the controller.
- 2 Check that the Parallel I/O configuration matches (NPN or PNP).



Function

Item	Step data input type JXC5H/6H
Step data and parameter setting	 Input from controller setting software (PC) Input from teaching box
Step data "position" setting	 Numerical value input from controller setting software (PC) or teaching box Input numerical value Direct teaching JOG teaching
Number of step data	64 points
Operation command (I/O signal)	Step No. [IN [*]] input \Rightarrow [DRIVE] input
Completion signal	[INP] output

Setting Items

TB: Teaching box PC: Controller setting software						
	Item	Contents		isy ode PC	Normal Mode TB/PC	Step data input type JXC5H/6H
	Movement MOD	Selection of "absolute position" and "relative position"	Δ	•		Set at ABS/INC
	Speed	Transfer speed	•	•		Set in units of 1 mm/s
	Position	[Position]: Target position [Pushing]: Pushing start position*1	•	•	•	Set in units of 0.01 mm
	Acceleration/Deceleration	Acceleration/deceleration during movement	•	•	•	Set in units of 1 mm/s ²
Step data	Pushing force	Rate of force during pushing operation*1	•	•	•	Set in units of 1%
setting (Excerpt)	Trigger LV	Target force during pushing operation*1	Δ	•	•	Set in units of 1%
	Pushing speed	Speed during pushing operation*1	Δ	•	•	Set in units of 1 mm/s
	Moving force	Force during positioning operation	Δ	•	•	Set to 100%
	Area output	Conditions for area output signal to turn ON	Δ	•	•	Set in units of 0.01 mm
	In position	[Position]: Width to the target position [Pushing]: How much it moves during pushing	Δ	•	•	Set to 0.5 mm or more (Units: 0.01 mm)
	Stroke (+)	+ side position limit	×	×	•	Set in units of 0.01 mm
Parameter	Stroke (-)	- side position limit	×	×	•	Set in units of 0.01 mm
setting	ORIG direction	Direction of the return to origin can be set.	×	×	•	Compatible
(Excerpt)	ORIG speed	Speed during return to origin	×	×	•	Set in units of 1 mm/s
	ORIG ACC	Acceleration during return to origin	×	×	•	Set in units of 1 mm/s ²
	JOG		•	•	•	Continuous operation at the set speed can be tested while the switch is being pressed.
Test	MOVE		×	•	•	Operation at the set distance and speed from the current position can be tested.
	Return to ORIG		•	•	•	Compatible
	Test drive	Operation of the specified step data	•	•	(Continuous operation)	Compatible
	Forced output	ON/OFF of the output terminal can be tested.	×	×	•	Compatible
Monitor	DRV mon	Current position, speed, force, and the speci- fied step data can be monitored.	•	•	•	Compatible
Monitor	In/Out mon	Current ON/OFF status of the input and output terminal can be monitored.	×	×	•	Compatible
A L M	Status	Alarm currently being generated can be confirmed.	•	•		Compatible
ALM	ALM Log record	Alarms generated in the past can be confirmed.	×	×	•	Compatible
File	Save/Load	Step data and parameters can be saved, for- warded, and deleted.	×	×	•	Compatible
Other	Language	Can be changed to Japanese or English	•	•		Compatible

 \triangle : Can be set from TB Ver. 2.** (The version information is displayed on the initial screen.)

*1 Check the catalog and operation manual of each actuator model which is capable of performing pushing operations.
 The "Specifications" table for models which are capable of performing pushing operations includes an item for the pushing force.

Fieldbus Network



EtherNet/IP





○ Two types of operation command

Step no. defined operation: Operate using the preset step data in the controller.

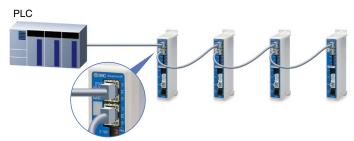
Numerical data defined operation: The actuator operates using values such as position and speed from the PLC.

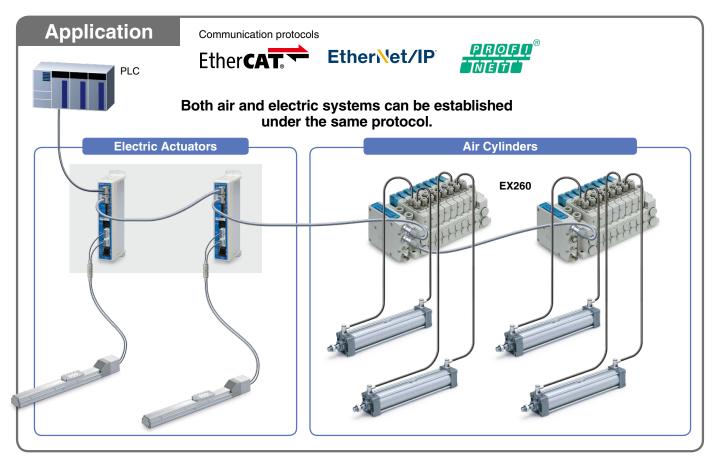
ONumerical monitoring available

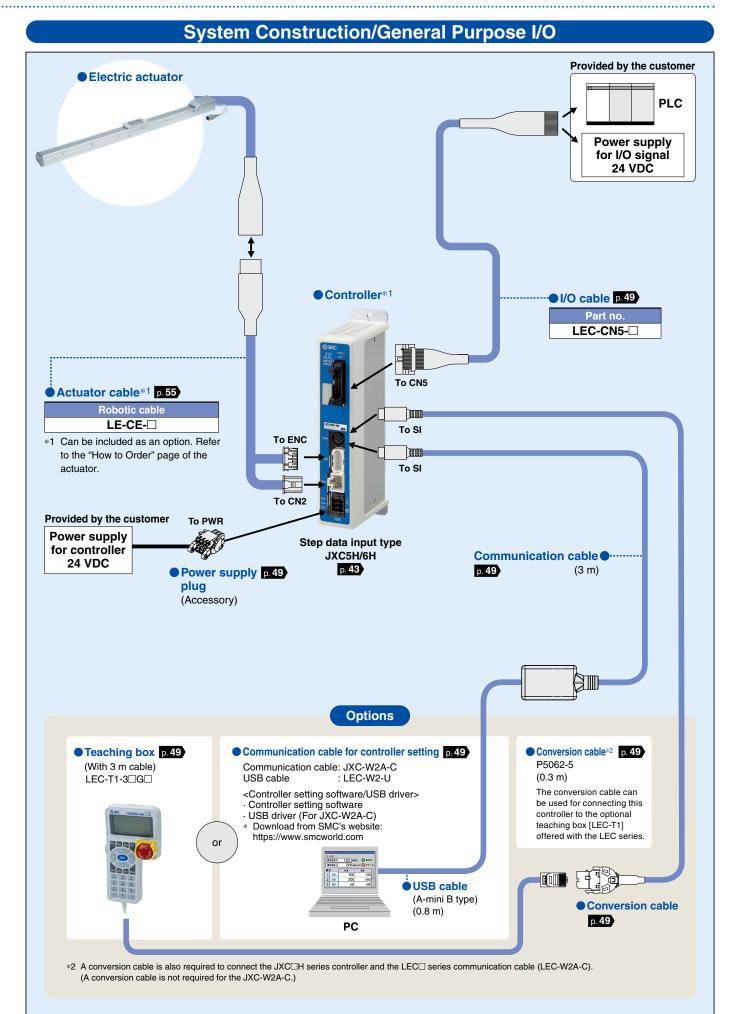
Numerical information, such as the current speed, current position, and alarm codes, can be monitored on the PLC.

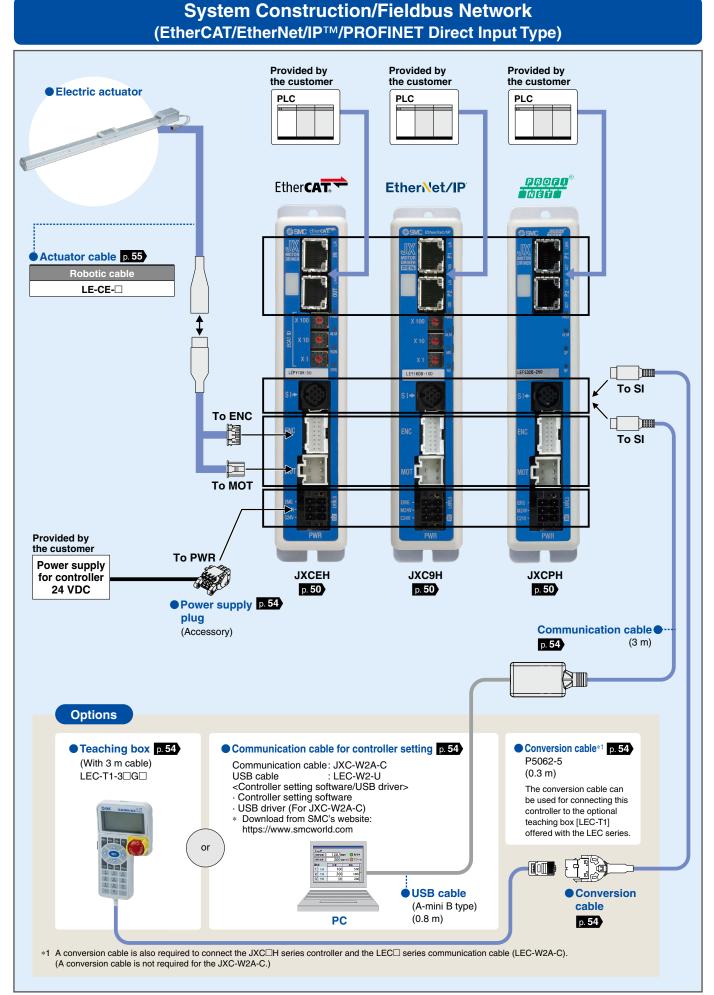
○Transition wiring of communication cables

Two communication ports are provided.









Electric Actuator

High Performance Slider Type

Slider Type/Ball Screw Drive LEFS G Series



CONTENTS

High Performance Slider Type/Ball Screw Drive LEFS G Series p.8

Battery-less Absolute (Step Motor 24 VDC)



Nodel Selection	· p. 9
low to Order	p. 17
Specifications	· p. 19
Dimensions	· p. 21
uto Switch Mounting	· p. 37

Controllers *JXC H* Series **p.42**

gh Performance Control	ler (Step Data Input Type) JXC5H/6H Series Battery-less Absolute	e (Step Motor 24 VDC)
Dax	How to Order	р. 43
	Specifications	p. 43
	Dimensions	p. 45
	Options	
	Actuator Cable	p. 55
Stop M	Nor Controllor IVCEH/0H/DH Series Pattery loss Absolute (Stan Mater 2	

High Performance Step Motor Controller JXCEH/9H/PH Series Battery-less Absolute (



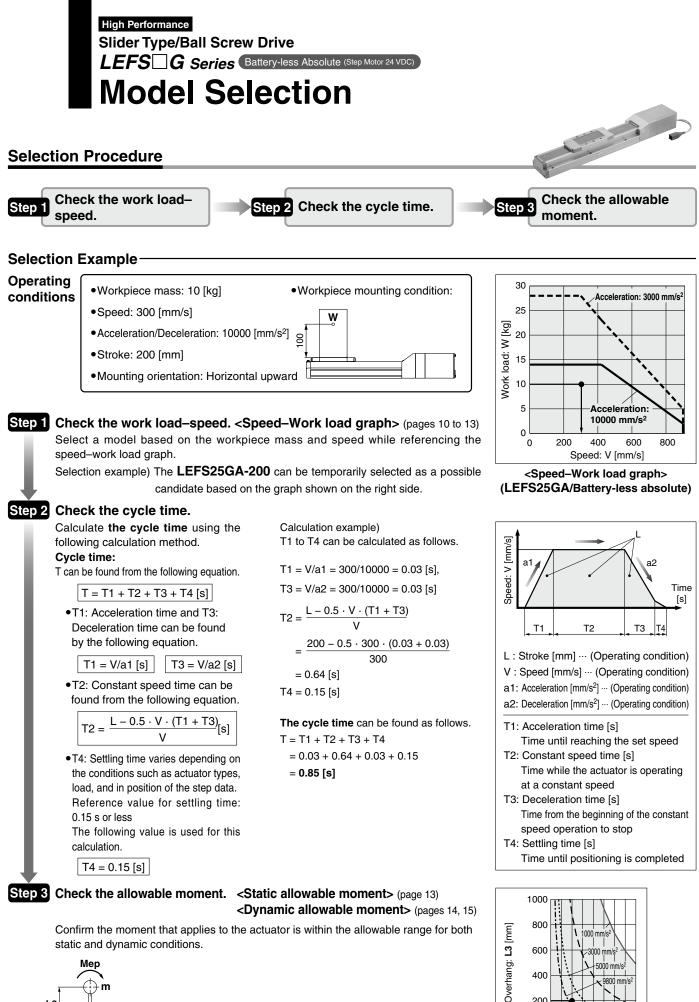
Specifications Dimensions	p. 50 p. 51 p. 52 p. 52	1 2
optione	p. 5-	•

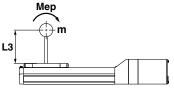
Battery-less Absolute Encoder Type Specific Product Precaution	s p. 56
CE/UKCA/UL-compliance List	p. 57



Auto Switch

JXC5H/6H series





Based on the above calculation result, the LEFS25GA-200 should be selected.

@SMC

400

200

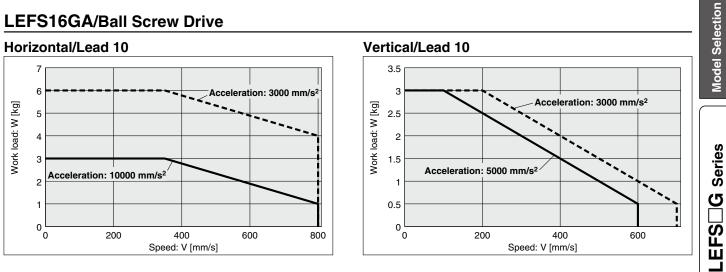
0 0 9800 mm/s

5 10 15 20 25 30 35 40 Work load [kg]



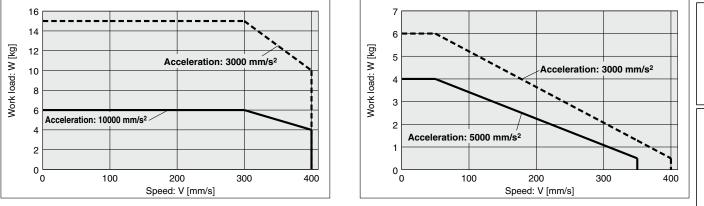
* The following graphs show the values when the moving force is 100%.

LEFS16GA/Ball Screw Drive



LEFS16GB/Ball Screw Drive

Horizontal/Lead 5



Operating temperature: Use products with a duty ratio of 100% or less when the temperature is below 30°C and with a duty ratio of 35% or less when the temperature exceeds 30°C.

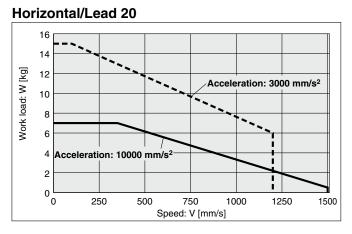
Vertical/Lead 5

JXC5H/6H Series **JXCEH/9H/PH** Series

Auto Switch

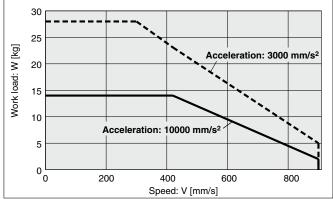


LEFS25GH/Ball Screw Drive



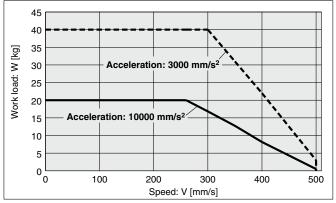
LEFS25GA/Ball Screw Drive

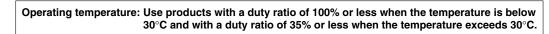
Horizontal/Lead 12

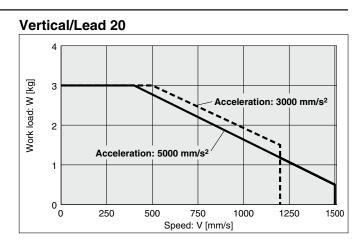


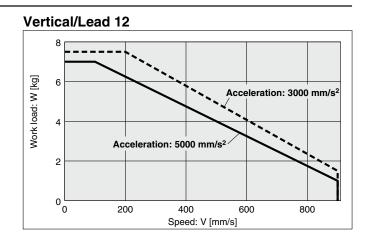
LEFS25GB/Ball Screw Drive

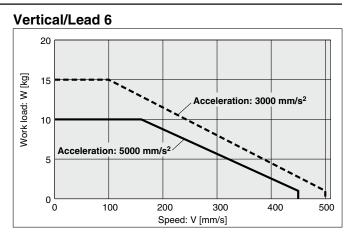
Horizontal/Lead 6







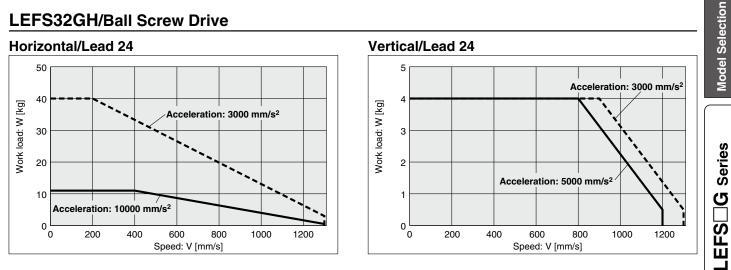






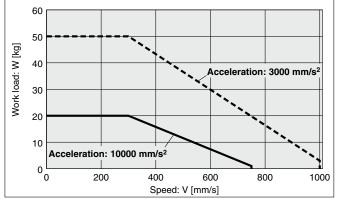
* The following graphs show the values when the moving force is 100%.

LEFS32GH/Ball Screw Drive



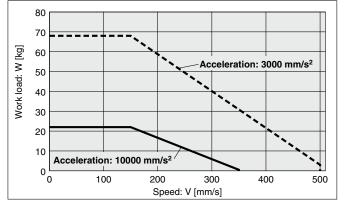
LEFS32GA/Ball Screw Drive

Horizontal/Lead 16

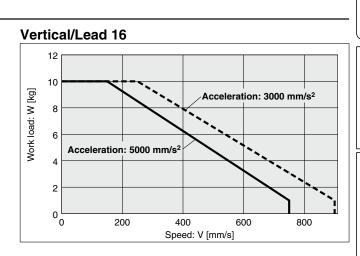


LEFS32GB/Ball Screw Drive

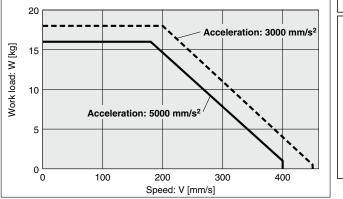
Horizontal/Lead 8



Operating temperature: Use products with a duty ratio of 100% or less when the temperature is below 30°C and with a duty ratio of 35% or less when the temperature exceeds 30°C.



Vertical/Lead 8



Auto Switch

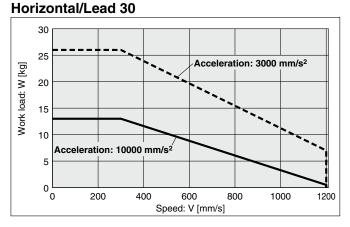
JXC5H/6H Series

JXCEH/9H/PH Series



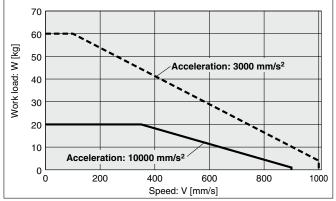
* The following graphs show the values when the moving force is 100%.

LEFS40GH/Ball Screw Drive



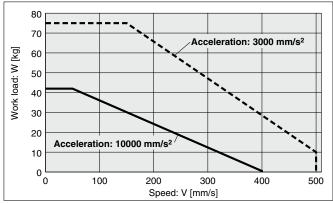
LEFS40GA/Ball Screw Drive

Horizontal/Lead 20

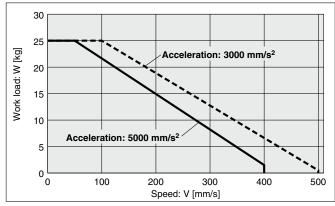


LEFS40GB/Ball Screw Drive

Horizontal/Lead 10



Vertical/Lead 10



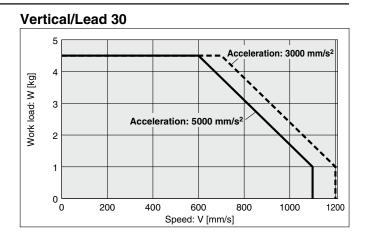
Operating temperature: Use products with a duty ratio of 100% or less when the temperature is below 30°C and with a duty ratio of 35% or less when the temperature exceeds 30°C.

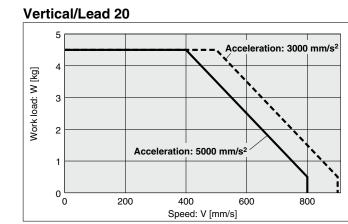
Static Allowable Moment*1

Model	Size	Pitching	Yawing	Rolling
	16	10.0	10.0	20.0
LEFS⊡G	25	27.0	27.0	52.0
LEF9	32	46.0	46.0	101.0
	40	110.0	110.0	207.0

*1 The static allowable moment is the amount of static moment which can be applied to the actuator when it is stopped.

If the product is exposed to impact or repeated load, be sure to take adequate safety measures when using the product.



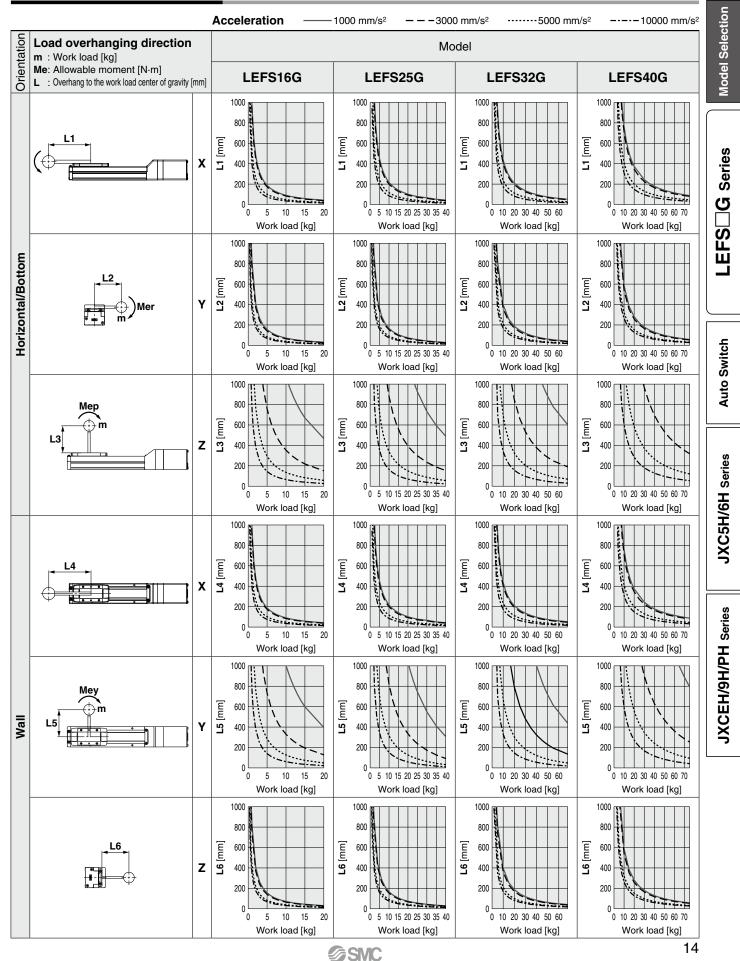






Dynamic Allowable Moment

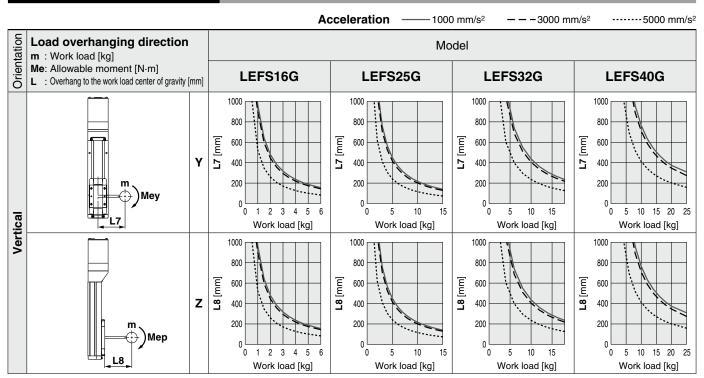
* These graphs show the amount of allowable overhang (guide unit) when the center of gravity of the workpiece overhangs in one direction.





Dynamic Allowable Moment

* These graphs show the amount of allowable overhang (guide unit) when the center of gravity of the workpiece overhangs in one direction.



Calculation of Guide Load Factor

SMC

 Decide operating conditions. Model: LEFS□G Size: 25/32/40

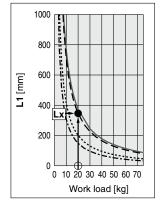
Acceleration [mm/s²]: **a** Work load [kg]: **m**

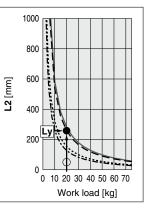
- Mounting orientation: Horizontal/Bottom/Wall/Vertical Work load center position [mm]: Xc/Yc/Zc
- 2. Select the target graph while referencing the model, size, and mounting orientation.
- 3. Based on the acceleration and work load, find the overhang [mm]: Lx/Ly/Lz from the graph.
- 4. Calculate the load factor for each direction. $\alpha x = Xc/Lx, \alpha y = Yc/Ly, \alpha z = Zc/Lz$
- 5. Confirm the total of αx , αy , and αz is 1 or less. $\alpha x + \alpha y + \alpha z \le 1$

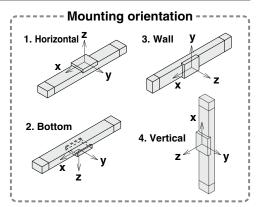
When 1 is exceeded, please consider a reduction of acceleration and work load, or a change of the work load center position and series.

Example

- 1. Operating conditions Model: LEFS40G Size: 40 Mounting orientation: Horizontal Acceleration [mm/s²]: 3000 Work load [kg]: 20
- Work load center position [mm]: **Xc** = 0, **Yc** = 50, **Zc** = 200 2. Select the graphs for horizontal of the LEFS40G on page 14.







3. Lx = 350 mm, Ly = 250 mm, Lz = 1000 mm

4. The load factor for each direction can be found as follows.

- $\alpha x = 0/350 = 0$ $\alpha y = 50/250 = 0.2$
- $\alpha z = 200/1000 = 0.2$

5. α**x** + α**y** + α**z** = 0.4 ≤ 1

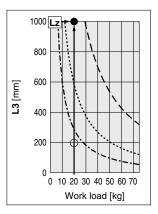
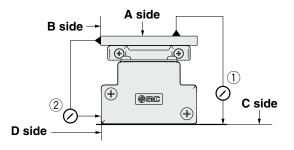




Table Accuracy (Reference Value)



	Traveling parallelism [mm] (Every 300 mm)		
Model	① C side traveling parallelism to A side	② D side traveling parallelism to B side	
LEFS16G	0.05	0.03	
LEFS25G	0.05	0.03	
LEFS32G	0.05	0.03	
LEFS40G	0.05	0.03	

Traveling parallelism does not include the mounting surface accuracy. (Excludes when the stroke exceeds 2000 mm)

Table Displacement (Reference Value)

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(SSAC)

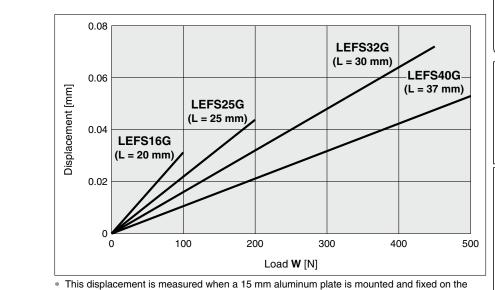
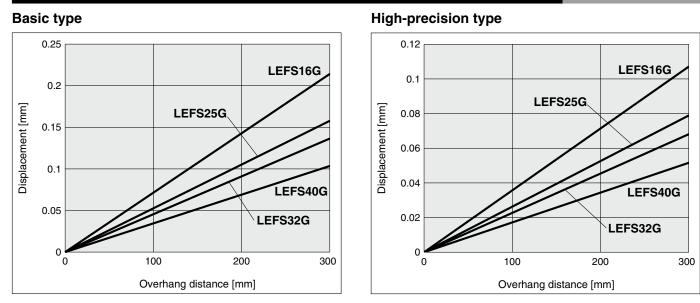


table.Check the clearance and play of the guide separately.

Overhang Displacement Due to Table Clearance (Initial Reference Value)



Battery-less Absolute (Step Motor 24 VDC)

High Performance Slider Type

Ball Screw Drive LEFS G Series LEFS16, 25, 32, 40

How to Order

LEFS H 25 GB CNK--R1 C5H73 200 ß 6 8 Ф A ß 9 Ð Ø

For details on controllers, refer to the next page.

UK

For details refer to 57 and onward.

(RoHS)

0	Accuracy

Nil Basic type н High-precision type

3	Motor	mounting	position	

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

5

В

5 Lea	ad [mm]			
Symbol	LEFS16	LEFS25	LEFS32	LEFS40
Н	—	20	24	30
Α	10	12	16	20

Auto switch compatibility

(In-	line only) ^{*2 *3 *4 *5 *6}
Nil	None
С	With (Includes 1 mounting bracket)

6

8

9 Gre	ease application (Seal band part)
NII	With

	V VICII
Ν	Without (Roller specification)

D Positioning pin hole

Nil	Housing B bottom ^{*6}	Housing B bottom
к	Body bottom 2 locations	Body bottom

4 Motor type

2 Size

16

25

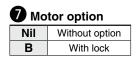
32 40

> 10

O make at	Turne		Compatible			
Symbol	Туре	LEFS16	LEFS40	controllers		
G	High performance (Battery-less absolute)	•	●	•	•	JXC5H JXC6H JXCEH JXC9H JXCPH

6 Stroke^{*1}[mm]

-		
Stroke		Note
Stroke	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



Actuator cable type/length

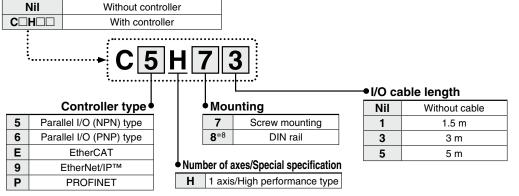
cable		[m]
None	R8	8 ^{*7}
1.5	RA	10* ⁷
3	RB	15* ⁷
5	RC	20 ^{*7}
	None 1.5 3	None R8 1.5 RA 3 RB

SMC

Slider Type/Ball Screw Drive



Controller



- *1 Please contact SMC for non-standard strokes as they are produced as special orders.
- *2 Excluding the LEFS16
- *3 If 2 or more are required, please order them separately. (Part no.: LEF-D-2-1 For details, refer to the Web Catalog.)
- *4 The auto switches must be ordered separately. (For details, refer to the Web Catalog.)

▲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.

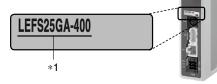
- *5 When "Nil" is selected, the product will not come with a built-in magnet for an auto switch, and so a mounting bracket cannot be secured. Be sure to select an appropriate model initially as the product cannot be changed to have auto switch compatibility after purchase.
- *6 For details on the mounting method, refer to the Web Catalog.
- *7 Produced upon receipt of order
- *8 The DIN rail is not included. It must be ordered separately.

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. This number should match that of the controller.



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

Туре	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 moto	or 24 VDC			
Max. number of step data		64 p	oints			
Power supply voltage		24 \	/DC			
Reference page	43		50			

Model Selection

LEFS G Series

Auto Switch





Specifications

	Model		LEFS	S16G		LEFS25G	ì		LEFS32G	à		LEFS400	3
Stroke [m	m] *1		50 to	500		50 to 800			50 to 1000)	1	150 to 120	0
Work load		orizontal	6	15	15	28	40	40	50	68	26	60	75
[kg]*2	troke [mm]*1 ork load Hd g]*2 N Speed Stroke range mm/s] stroke range sitioning repeatability minition ms? stroke range sitioning repeatability minition ms? stroke range uide type minition res ctuation type Mer uide type Mer atic allowable of the mperating humidity Mer otor size otor size otor type ncoder mcoder wer supply volta ower supply volta stroke range	/ertical	3	6	3	7.5	15	4	10	18	4.5	4.5	25
		Up to 400	10 to 800	5 to 400	20 to 1500	12 to 900	6 to 500	24 to 1300	16 to 1000	8 to 500	30 to 1200	20 to 1000	10 to 500
		401 to 450	10 to 700	5 to 360	20 to 1100	12 to 750	6 to 400	24 to 1300	16 to 950	8 to 500	30 to 1200	20 to 1000	10 to 500
Work load [kg]*2 Speed [mm/s] Max. acceleration/d [mm/s2] Positioning repr [mm] Lost motion [mm]*3 Lead [mm] Impact/Vibrat Actuation ty Guide type Static allowab moment*5 [N·m] Operating te Operating te Operating te Operating te		451 to 500	10 to 600	5 to 300	20 to 1100	12 to 750	6 to 400	24 to 1300	16 to 950	8 to 500	30 to 1200	20 to 1000	10 to 500
		501 to 600	_	_	20 to 900	12 to 540	6 to 270	24 to 1200	16 to 800	8 to 400	30 to 1200	20 to 1000	10 to 500
Speed	Stroke	601 to 700	_	_	20 to 630	12 to 420	6 to 230	24 to 930	16 to 620	8 to 310	30 to 1200	20 to 900	10 to 440
[mm/s]	range	701 to 800	—	_	20 to 550	12 to 330	6 to 180	24 to 750	16 to 500	8 to 250	30 to 1140	20 to 760	10 to 350
		801 to 900	—	—	—	—	—	24 to 610	16 to 410	8 to 200	30 to 930	20 to 620	10 to 280
		901 to 1000	—	—	—	—	—	24 to 500	16 to 340	8 to 170	30 to 780	20 to 520	10 to 250
		1001 to 1100	—						—		30 to 660	20 to 440	10 to 220
		1101 to 1200	—	_	—	—		—	—	—	30 to 570	20 to 380	10 to 190
Max. acceleratio	on/deceleration	Horizontal						10000				-	
[mm/s ²]		Vertical						5000					
Positioning r	repeatability	Basic type						±0.02					
[mm]		High-precision type					±0.015	5 (Lead H:	±0.02)				
	on	Basic type						0.1 or less					
		High-precision type		1	1				-	1	1	1	
			10	5	20	50 to 800 50 to 1000 150 to 15 28 40 40 50 68 26 6 3 7.5 15 4 10 18 4.5 4 0 to 1500 12 to 900 6 to 500 24 to 1300 16 to 1000 8 to 500 30 to 1200 20 to 0 to 1500 12 to 750 6 to 400 24 to 1300 16 to 950 8 to 500 30 to 1200 20 to 0 to 1100 12 to 750 6 to 400 24 to 1300 16 to 950 8 to 500 30 to 1200 20 to 0 to 900 12 to 540 6 to 270 24 to 1300 16 to 620 8 to 310 30 to 1200 20 to 0 to 630 12 to 420 6 to 230 24 to 750 16 to 500 8 to 250 30 to 1140 20 to 24 to 610 16 to 410 8 to 20 30 to 730 20 to 30 to 670 20 to <t< th=""><th>20</th><th>10</th></t<>	20	10					
		istance [m/s ²]*4											
						Ball screv	-			LEFS□ ^R L)	-		
Guide type				-			L	inear guid				-	
		(Pitching)		0								110	
		/ (Yawing)		0								110	
<u> </u>		(Rolling)	2	0		52			101			207	
	-												
		range [%RH]					90 or less		ensation)				
				28				IP30					
	-			28				oluto (Stor				□56.4	
	e					Dallei	-						
	anly volta									-	-		
		2~[1]	Max no	wer 116	Ma	ax nower 1		1		22	Ma	ax. power 2	222
Power (W)			Max. po		1110	on power i					IVIC	on power z	
				Non-magnetizing lock									
Type*7			29	59	47	78			ř – – – – – – – – – – – – – – – – – – –	216	75	113	245
Type ^{*7} Holding fo	orce [N]			59 .9	47				108	216	75	113 5	245

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

*2 The max. work load at 3000 mm/s² acceleration and deceleration speed. For the speed, acceleration, and duty ratio according to the work load, check the "Speed–Work Load Graph" on pages 10 to 13.

Furthermore, if the cable length exceeds 5 m, the speed and work load specified in the "Speed–Work Load Graph" may decrease by up to 10% for each 5 m increase.

*3 A reference value for correcting errors in reciprocal operation

*4 Impact resistance: No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.) Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a

Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)

*5 The static allowable moment is the amount of static moment which can be applied to the actuator when it is stopped.

If the product is exposed to impact or repeated load, be sure to take adequate safety measures when using the product.

*6 Indicates the max. power during operation (including the controller)

This value can be used for the selection of the power supply.

*7 With lock only

*8 For an actuator with lock, add the power for the lock.



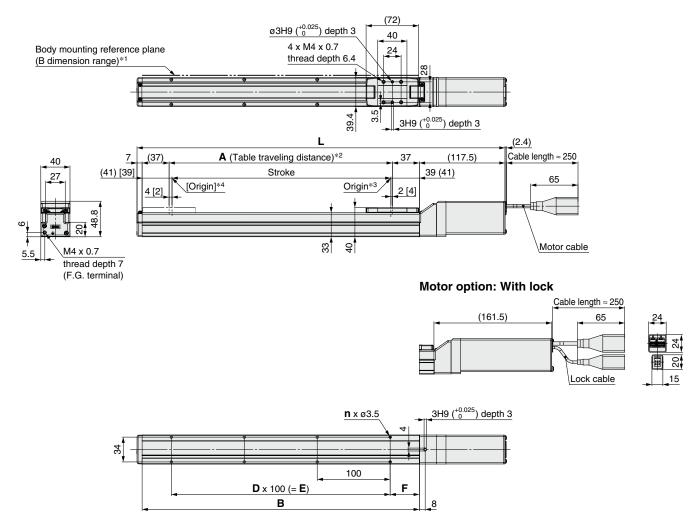
Weight

Series						S16G		I												
Stroke [mm]	50	100	150	200	250	300	350	400	450	500										
Product weight [kg]	0.85	0.92	1.00	1.07	1.15	1.22	1.30	1.37	1.45	1.52										
Additional weight with lock [kg]		0.12																		
Series		LEFS25G																		
Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800				
Product weight [kg]	1.70	1.84	1.98	2.12	2.26	2.40	2.54	2.68	2.82	2.96	3.10	3.24	3.38	3.52	3.66	3.80				
Additional weight with lock [kg]								0.	26											
Series										LEFS	532G									
Stroke [mm]	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
Product weight [kg]	3.55	3.75	3.95	4.15	4.35	4.55	4.75	4.95	5.15	5.35	5.55	5.75	5.95	6.15	6.35	6.55	6.75	6.95	7.15	7.35
Additional weight with lock [kg]										0.	53									
Series										LEFS	540G									
Stroke [mm]	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1100	1200
Product weight [kg]	5.37	5.65	5.93	6.21	6.49	6.77	7.15	7.33	7.61	7.89	8.17	8.45	8.73	9.01	9.29	9.57	9.85	10.13		
Additional weight with lock [kg]					1		1				53				<u> </u>					

Auto Switch



LEFS16G



*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 2 mm or more because of round chamfering. (Recommended height: 5 mm)

In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

- *2 This is the distance within which the table can move when it returns to origin.
- Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.

*3 Position after returning to origin

21

*4 [] for when the direction of return to origin has changed

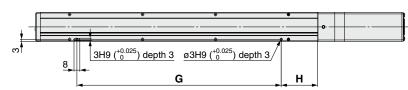
Dimensions								[mm]			
Model	L	-	Α	в	2	D	Е	F			
Model	Without lock	With lock	A	B	n			Г			
LEFS16G -50	254.5	298.5	56	130				15			
LEFS16G -100	304.5	348.5	106	180	4	_	_	—	—	_ _	
LEFS16G -150	354.5	398.5	156	230							
LEFS16G -200	404.5	448.5	206	280	6	2	200				
LEFS16G□-250□	454.5	498.5	256	330	0						
LEFS16G -300	504.5	548.5	306	380	8	3	300	40			
LEFS16G -350	554.5	598.5	356	430	0		300				
LEFS16G -400	604.5	648.5	406	480	10	4	400				
LEFS16G -450	654.5	698.5	456	530	10	4	400				
LEFS16G -500	704.5	748.5	506	580	12	5	500				





LEFS16G

Positioning pin hole*1 (Option): Body bottom



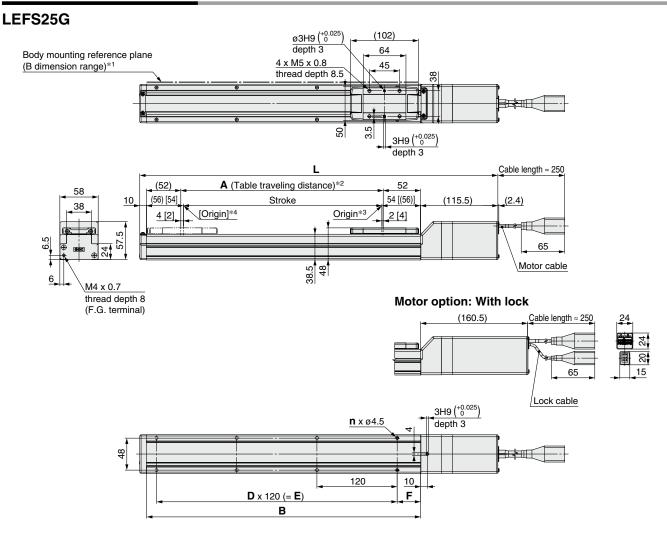
*1 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Dimensions		[mm]
Model	Positioning	pin hole: K
Model	G	Н
LEFS16G -50		25
LEFS16G -100	80	
LEFS16G -150		
LEFS16G -200	180	
LEFS16G -250	160	
LEFS16G -300	280	50
LEFS16G -350	200	
LEFS16G -400	380	
LEFS16G□-450□	300	
LEFS16G -500	480	

Model Selection







*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more because of round chamfering. (Recommended height: 5 mm)

In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc. *2 This is the distance within which the table can move when it returns to origin.

Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.

*3 Position after returning to origin

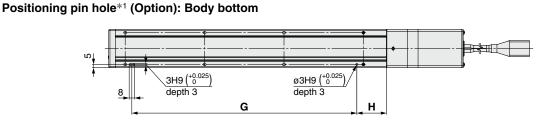
*4 [] for when the direction of return to origin has changed

Dimensions								[mm]		
Model	I	-	Α	в	n	D	Е	F		
Model	Without lock	With lock	~				L .			
LEFS25G□-50□	285.5	330.5	56	160				20		
LEFS25G -100	335.5	380.5	106	210	4		_			
LEFS25G -150	385.5	430.5	156	260						
LEFS25G -200	435.5	480.5	206	310	6	2	040			
LEFS25G -250	485.5	530.5	256	360	0	2	240			
LEFS25G -300	535.5	580.5	306	410			360			
LEFS25G -350	585.5	630.5	356	460	8	3				
LEFS25G -400	635.5	680.5	406	510	1					
LEFS25G -450	685.5	730.5	456	560	10	4	480	35		
LEFS25G -500	735.5	780.5	506	610		4	400			
LEFS25G -550	785.5	830.5	556	660						
LEFS25G -600	835.5	880.5	606	710	12 5	5	600			
LEFS25G -650	885.5	930.5	656	760						
LEFS25G -700	935.5	980.5	706	810	- 1 /	6	700			
LEFS25G -750	985.5	1030.5	756	860	14	o	720			
LEFS25G -800	1035.5	1080.5	806	910	16	7	840			



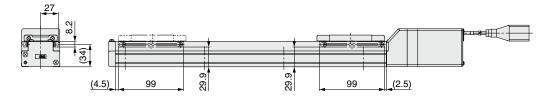


LEFS25G



*1 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

With auto switch compatibility (Option)

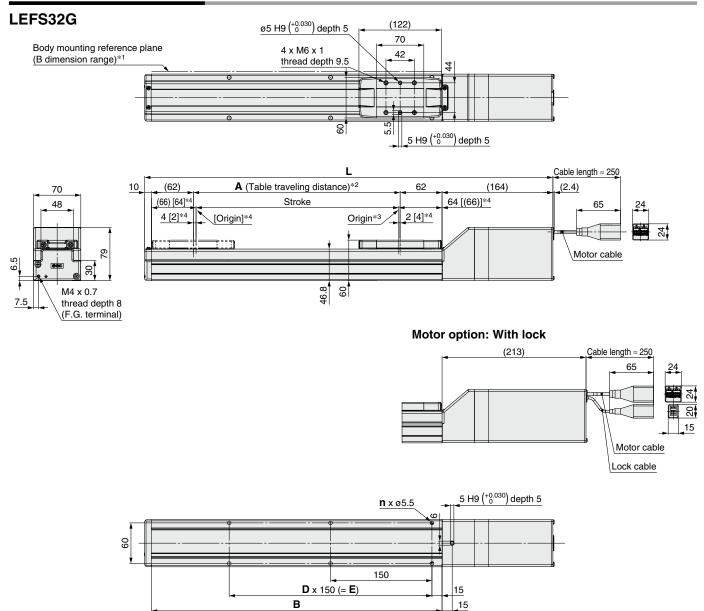


* For strokes of 99 mm or less, only 2 auto switch mounting brackets can be installed on the motor side.

Dimensions		[mm]
Model	G	Н
LEFS25G -50		30
LEFS25G -100	100	
LEFS25G -150		
LEFS25G□-200□	220	
LEFS25G□-250□	220	
LEFS25G□-300□		
LEFS25G□-350□	340	
LEFS25G -400		
LEFS25G□-450□	460	45
LEFS25G -500	460	
LEFS25G -550		
LEFS25G -600	580	
LEFS25G -650		
LEFS25G -700	700	
LEFS25G -750	700	
LEFS25G -800	820	







*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm)

In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

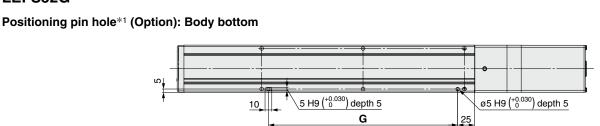
- *2 This is the distance within which the table can move when it returns to origin.
- Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed

Dimensions							[mm]
Model	L	-	Α	в	n	D	Е
	Without lock	With lock					-
LEFS32G□-50□	354	403	56	180			
LEFS32G -100	404	453	106	230	4	—	—
LEFS32G -150	454	503	156	280			
LEFS32G -200	504	553	206	330			
LEFS32G -250	554	603	256	380	6	2	300
LEFS32G -300	604	653	306	430	1		
LEFS32G -350	654	703	356	480			
LEFS32G -400	704	753	406	530	8	3	450
LEFS32G -450	754	803	456	580			
LEFS32G -500	804	853	506	630			
LEFS32G -550	854	903	556	680	10	4	600
LEFS32G -600	904	953	606	730			
LEFS32G -650	954	1003	656	780			
LEFS32G -700	1004	1053	706	830	12	5	750
LEFS32G -750	1054	1103	756	880			
LEFS32G -800	1104	1153	806	930			
LEFS32G -850	1154	1203	856	980	14	6	900
LEFS32G -900	1204	1253	906	1030			
LEFS32G -950	1254	1303	956	1080	16	7	1050
LEFS32G -1000	1304	1353	1006	1130	10		1050



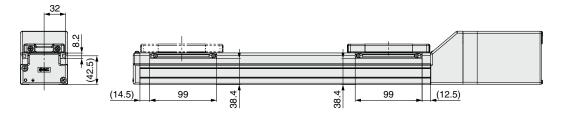


LEFS32G



*1 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

With auto switch compatibility (Option)



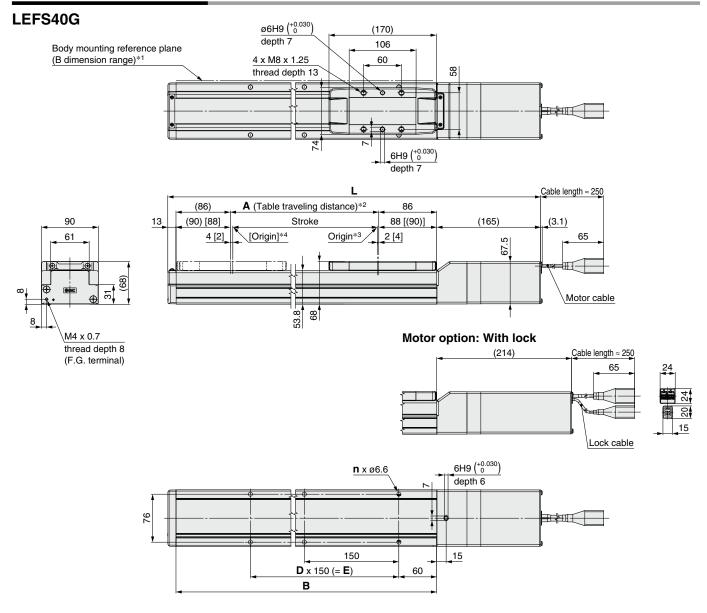
* For strokes of 99 mm or less, only 2 auto switch mounting brackets can be installed on the motor side.

Dimensions	[mm]
Model	G
LEFS32G□-50□	
LEFS32G□-100□	130
LEFS32G -150	
LEFS32G□-200□	
LEFS32G□-250□	280
LEFS32G -300	
LEFS32G□-350□	
LEFS32G□-400□	430
LEFS32G□-450□	
LEFS32G -500	
LEFS32G□-550□	580
LEFS32G -600	
LEFS32G□-650□	
LEFS32G -700	730
LEFS32G□-750□	
LEFS32G -800	
LEFS32G□-850□	880
LEFS32G -900	
LEFS32G -950	1030
LEFS32G -1000	1030

LEFS G Series

Model Selection





- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more because of round chamfering. (Recommended height: 5 mm) In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin.

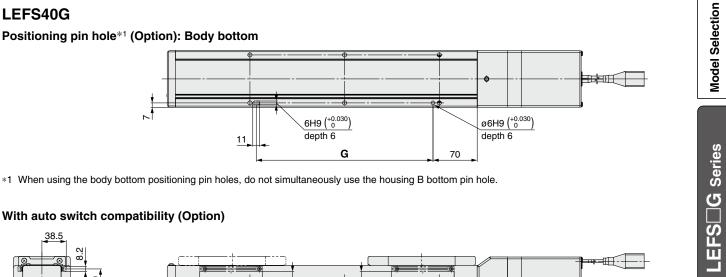
Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.

- *3 Position after returning to origin
 *4 [] for when the direction of return to origin has changed

Dimensions							[mm]
Model	L		Α	в	n	D	Е
	Without lock	With lock	~		••		
LEFS40G -150	506	555	156	328	4	—	150
LEFS40G□-200□	556	605	206	378			
LEFS40G□-250□	606	655	256	428	6	2	300
LEFS40G -300	656	705	306	478			
LEFS40G -350	706	755	356	528			
LEFS40G -400	756	805	406	578	8	3	450
LEFS40G -450	806	855	456	628			
LEFS40G -500	856	905	506	678			600
LEFS40G -550	906	955	556	728	10	4	
LEFS40G -600	956	1005	606	778			
LEFS40G -650	1006	1055	656	828			
LEFS40G -700	1056	1105	706	878	12	5	750
LEFS40G -750	1106	1155	756	928			
LEFS40G -800	1156	1205	806	978			
LEFS40G -850	1206	1255	856	1028	14	6	900
LEFS40G -900	1256	1305	906	1078			
LEFS40G -950	1306	1355	956	1128	16	7	1050
LEFS40G -1000	1356	1405	1006	1178	10	/	1030
LEFS40G -1100	1456	1505	1106	1278	18	8	1200
LEFS40G -1200	1556	1605	1206	1378	10	0	1200

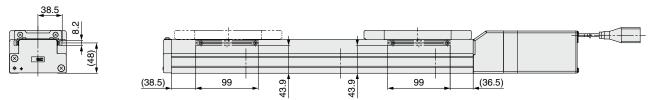


LEFS40G



*1 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

With auto switch compatibility (Option)



Dimensions	[mm]
Model	G
LEFS40G -150	130
LEFS40G -200	
LEFS40G -250	280
LEFS40G -300	
LEFS40G -350	
LEFS40G -400	430
LEFS40G -450	
LEFS40G -500	
LEFS40G -550	580
LEFS40G -600	
LEFS40G -650	
LEFS40G -700	730
LEFS40G -750	
LEFS40G -800	
LEFS40G -850	880
LEFS40G -900	
LEFS40G -950	1030
LEFS40G -1000	1030
LEFS40G -1100	1180
LEFS40G -1200	1180

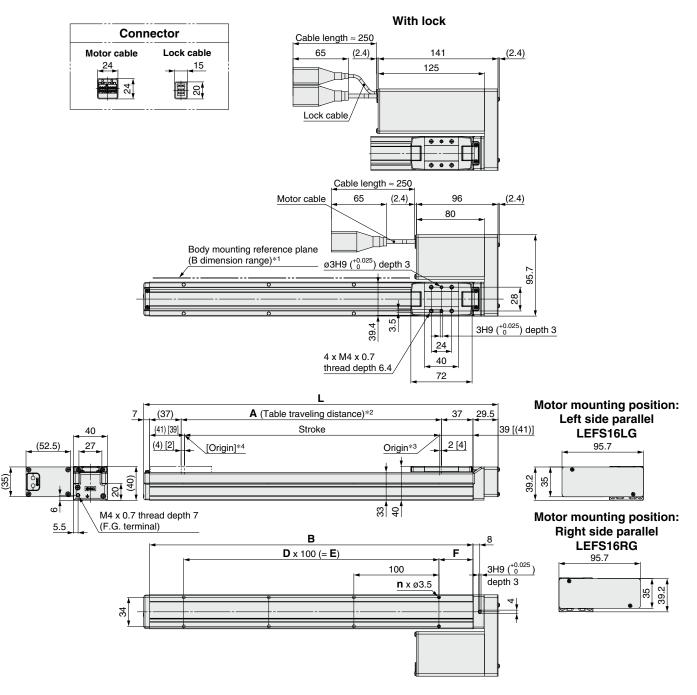
JXCEH/9H/PH series

Auto Switch

JXC5H/6H Series



LEFS16RG



*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 2 mm or more because of round chamfering. (Recommended height: 5 mm)

In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

*2 This is the distance within which the table can move when it returns to origin. Make sure that workpieces mounted on the table do not

interfere with other workpieces incurred on the table do not table.

*3 Position after returning to origin

*4 [] for when the direction of return to origin has changed

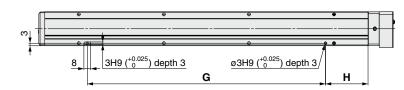
Dimensions							[mm]
Model	L	Α	В	n	D	E	F
LEFS16□G□-50□	166.5	56	130				15
LEFS16 G -100	216.5	106	180	4	_	_	
LEFS16□G□-150□	266.5	156	230				
LEFS16 G -200	316.5	206	280	6	2	200	
LEFS16□G□-250□	366.5	256	330	0	2		
LEFS16 G -300	416.5	306	380	8	3	300	40
LEFS16□G□-350□	466.5	356	430) °	3	300	
LEFS16 G -400	516.5	406	480	10	4	400	
LEFS16□G□-450□	566.5	456	530	10	4	400	
LEFS16 G -500	616.5	506	580	12	5	500	





LEFS16RG

Positioning pin hole*1 (Option): Body bottom



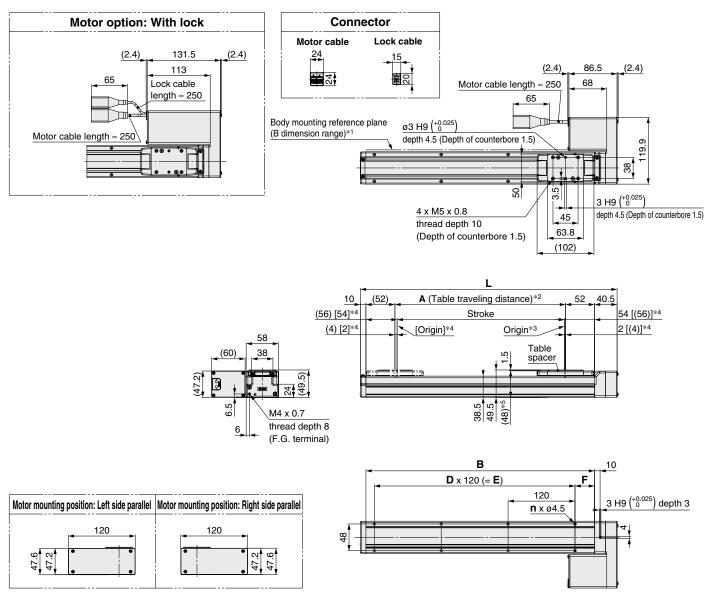
*1 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Dimensions		[mm]
Model	Positioning	pin hole: K
Model	G	Н
LEFS16 G -50		25
LEFS16□G□-100□	80	
LEFS16□G□-150□]	
LEFS16 G -200	100	
LEFS16 G -250	180	
LEFS16 G -300	000	50
LEFS16□G□-350□	280	
LEFS16 G -400	200	1
LEFS16 G -450	380	
LEFS16 G -500	480	





LEFS25RG



- *1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm)
 - In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.
- *2 This is the distance within which the table can move when it returns to origin.
- Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.
- *3 Position after returning to origin
- *4 [] for when the direction of return to origin has changed
- *5 When the table spacer is removed

Dimensions							[mm]		
Model	L	Α	В	n	D	E	F		
LEFS25 G -50	210.5	56	160				20		
LEFS25 G -100	260.5	106	210	4	4	4	—	—	
LEFS25 G -150	310.5	156	260						
LEFS25 G -200	360.5	206	310	6	2	240			
LEFS25 G -250	410.5	256	360	0	2	240	35		
LEFS25 G -300	460.5	306	410						
LEFS25 G -350	510.5	356	460	8 3	3 36	360			
LEFS25 G -400	560.5	406	510						

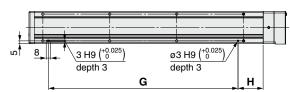
Dimensions							[mm]	
Model	L	Α	В	n	D	E	F	
LEFS25 G -450	610.5	456	560	10	10	4	480	
LEFS25 G -500	660.5	506	610		4	400		
LEFS25 G -550	710.5	556	660			600	35	
LEFS25 G -600	760.5	606	710	12	5			
LEFS25 G -650	810.5	656	760					
LEFS25 G -700	860.5	706	810	- 4	6	720		
LEFS25 G -750	910.5	756	860	14	0	/20		
LEFS25 G -800	960.5	806	910	16	7	840		





LEFS25RG

Positioning pin hole*1 (Option): Body bottom



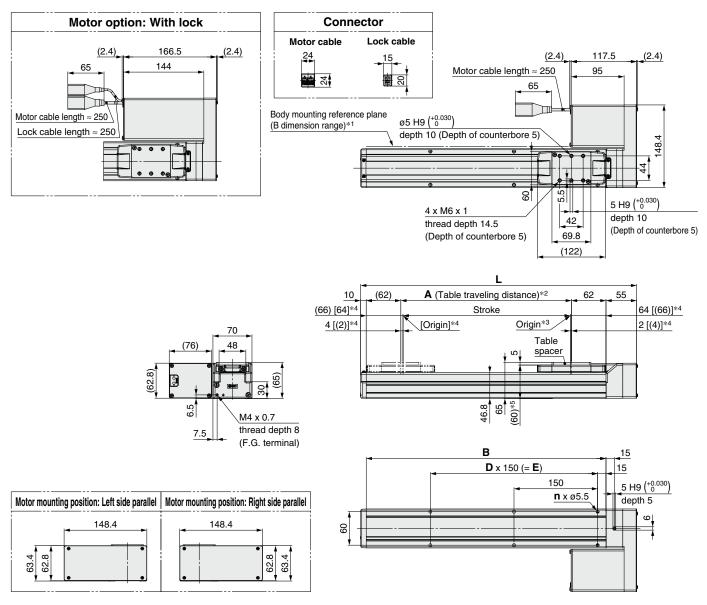
*1 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Dimensions		[mm]			
Model	G	Н			
LEFS25 G -50		30			
LEFS25 G -100	100				
LEFS25 G -150					
LEFS25 G -200	220				
LEFS25 G -250	220				
LEFS25 G -300					
LEFS25 G -350	340				
LEFS25 G -400					
LEFS25 G -450	460	45			
LEFS25 G -500	400				
LEFS25□G□-550□					
LEFS25 G -600	580				
LEFS25 G -650					
LEFS25 G -700	700				
LEFS25 G -750	/00				
LEFS25 G -800	820				





LEFS32RG



*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm)

In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

*2 This is the distance within which the table can move when it returns to origin.

Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.

*3 Position after returning to origin

*4 [] for when the direction of return to origin has changed

*5 When the table spacer is removed

Dimensions						[mm]
Model	L	A	В	n	D	E
LEFS32 G -50	245	56	180			
LEFS32 G -100	295	106	230	4		
LEFS32 G -150	345	156	280			
LEFS32 G -200	395	206	330	6	2	300
LEFS32 G -250	445	256	380			
LEFS32 G -300	495	306	430			
LEFS32 G -350	545	356	480			
LEFS32 G -400	595	406	530	8	3	450
LEFS32 G -450	645	456	580			
LEFS32 G -500	695	506	630	10	4	600

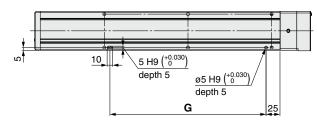
Dimensions						[mm]
Model	L	Α	В	n	D	E
LEFS32 G -550	745	556	680	10	4	600
LEFS32 G -600	795	606	730		4	
LEFS32 G -650	845	656	780	12	5	750
LEFS32 G -700	895	706	830			
LEFS32 G -750	945	756	880			
LEFS32 G -800	995	806	930	14	6	900
LEFS32 G -850	1045	856	980			
LEFS32 G -900	1095	906	1030			
LEFS32 G -950	1145	956	1080	16	7	1050
LEFS32 G -1000	1195	1006	1130			





LEFS32RG

Positioning pin hole*1 (Option): Body bottom



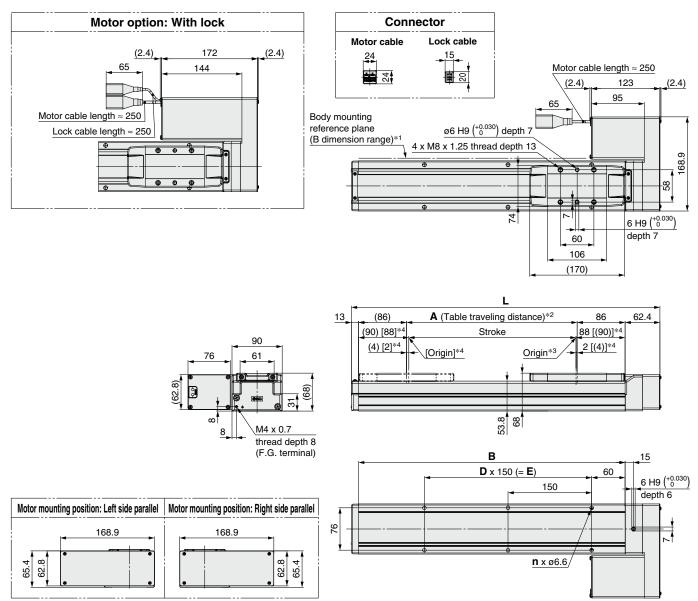
*1 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Dimensions	[mm]
Model	G
LEFS32 G -50	
LEFS32 G -100	130
LEFS32 G -150	
LEFS32 G -200	
LEFS32 G -250	280
LEFS32 G -300	
LEFS32 G -350	
LEFS32 G -400	430
LEFS32 G -450	
LEFS32 G -500	
LEFS32 G -550	580
LEFS32 G -600	
LEFS32 G -650	
LEFS32 G -700	730
LEFS32 G -750	
LEFS32 G -800	
LEFS32 G -850	880
LEFS32 G -900	
LEFS32 G -950	1030
LEFS32 G -1000	1030





LEFS40RG



*1 When mounting the actuator using the body mounting reference plane, set the height of the opposite surface or pin to be 3 mm or more. (Recommended height: 5 mm)

In addition, be aware that surfaces other than the body mounting reference plane (B dimension range) may slightly protrude from the body mounting reference plane. Be sure to provide a clearance of 1 mm or more to avoid interference with workpieces, facilities, etc.

*2 This is the distance within which the table can move when it returns to origin.

Make sure that workpieces mounted on the table do not interfere with other workpieces or the facilities around the table.

*3 Position after returning to origin

*4 [] for when the direction of return to origin has changed

Dimensions						[mm]
Model	L	A	В	n	D	E
LEFS40 G -150	403.4	156	328	4	—	—
LEFS40 G -200	453.4	206	378			
LEFS40 G -250	503.4	256	428	6	2	300
LEFS40 G -300	553.4	306	478			
LEFS40 G -350	603.4	356	528			
LEFS40 G -400	653.4	406	578	8	3	450
LEFS40 G -450	703.4	456	628			
LEFS40 G -500	753.4	506	678			
LEFS40 G -550	803.4	556	728	10	4	600
LEFS40 G -600	853.4	606	778			

Dimensions						[mm]
Model	L	Α	В	n	D	E
LEFS40 G -650	903.4	656	828	12	5	750
LEFS40 G -700	953.4	706	878			
LEFS40 G -750	1003.4	756	928			
LEFS40 G -800	1053.4	806	978	14	6	900
LEFS40 G -850	1103.4	856	1028			
LEFS40 G -900	1153.4	906	1078			
LEFS40 G -950	1203.4	956	1128	16	7	1050
LEFS40 G -1000	1253.4	1006	1178			
LEFS40 G -1100	1353.4	1106	1278	18	8	1200
LEFS40 G -1200	1453.4	1206	1378			

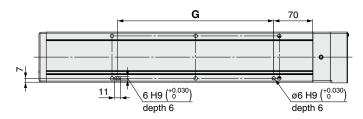




Dimensions: Motor Parallel

LEFS40RG

Positioning pin hole*1 (Option): Body bottom

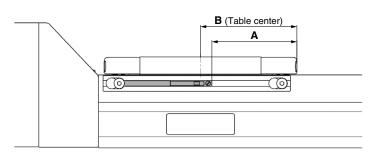


*1 When using the body bottom positioning pin holes, do not simultaneously use the housing B bottom pin hole.

Model G LEFS40 G-150 130 LEFS40 G-200 280 LEFS40 G-350 280 LEFS40 G-350 430 LEFS40 G-400 430 LEFS40 G-450 280 LEFS40 G-450 430 LEFS40 G-550 280 LEFS40 G-600 430 LEFS40 G-650 430 LEFS40 G-650 430 LEFS40 G-650 430 LEFS40 G-650 430 LEFS40 G-8500 800 LEFS40 G-8500 800 LEFS40 G-9500 1030 LEFS40 G-9500 1180	Dimensions	[mm]
LEFS40 G -200 280 LEFS40 G -300 280 LEFS40 G -300 430 LEFS40 G -400 430 LEFS40 G -500 280 LEFS40 G -500 430 LEFS40 G -500 580 LEFS40 G -550 580 LEFS40 G -600 126 LEFS40 G -600 1030 LEFS40 G -850 880 LEFS40 G -850 1030 LEFS40 G -950 1030 LEFS40 G -1100 1180	Model	G
LEFS40 G -250 280 LEFS40 G -300 430 LEFS40 G -400 430 LEFS40 G -450 430 LEFS40 G -500 580 LEFS40 G -500 580 LEFS40 G -600 126 LEFS40 G -650 730 LEFS40 G -7500 126 LEFS40 G -8500 880 LEFS40 G -8500 880 LEFS40 G -9000 1030 LEFS40 G -9500 1030 LEFS40 G -1100 1180	LEFS40 G -150	130
LEFS40 G -300 LEFS40 G -350 LEFS40 G -400 430 LEFS40 G -450 430 LEFS40 G -500 580 LEFS40 G -550 580 LEFS40 G -600 126 LEFS40 G -650 730 LEFS40 G -7500 1030 LEFS40 G -8500 880 LEFS40 G -9000 1180	LEFS40 G -200	
LEFS40 G -350 LEFS40 G -400 430 LEFS40 G -450 430 LEFS40 G -500 580 LEFS40 G -550 580 LEFS40 G -600 430 LEFS40 G -600 100 LEFS40 G -600 1180	LEFS40 G -250	280
LEFS40 G 430 LEFS40 G -450 LEFS40 G -500 LEFS40 G -500 LEFS40 G -550 LEFS40 G -600 LEFS40 G -650 LEFS40 G -700 LEFS40 G -850 LEFS40 G -850 LEFS40 G -900 LEFS40 G -1000 1030 LEFS40 G	LEFS40 G -300	
LEFS40 G -450 LEFS40 G -500 LEFS40 G -600 LEFS40 G -600 LEFS40 G -650 LEFS40 G -650 LEFS40 G -700 LEFS40 G -850 LEFS40 G -850 LEFS40 G -900 LEFS40 G -1000 1030 LEFS40 G	LEFS40 G -350	
LEFS40 G -500 LEFS40 G -550 580 LEFS40 G -600 1030 LEFS40 G -650 730 LEFS40 G -750 730 LEFS40 G -850 880 LEFS40 G -900 1030 LEFS40 G -950 1030 LEFS40 G -1100 1180	LEFS40 G -400	430
LEFS40 G -550 580 LEFS40 G -600 1000 LEFS40 G -650 1000 LEFS40 G -700 730 LEFS40 G -750 1000 LEFS40 G -8500 880 LEFS40 G -9500 1030 LEFS40 G -1000 1180	LEFS40 G -450	
LEFS40 G -600 LEFS40 G -650 LEFS40 G -700 730 LEFS40 G -750 LEFS40 G -750 LEFS40 G -800 LEFS40 G -850 880 LEFS40 G -900 LEFS40 G -950 1030 LEFS40 G -1100 1180	LEFS40 G -500	
LEFS40 G -650 LEFS40 G -700 730 LEFS40 G -750 LEFS40 G -800 LEFS40 G -850 880 LEFS40 G -900 LEFS40 G -950 1030 LEFS40 G -1100 1180	LEFS40 G -550	580
LEFS40 G -700 730 LEFS40 G -750 - LEFS40 G -800 - LEFS40 G -850 880 LEFS40 G -900 - LEFS40 G -900 1030 LEFS40 G -1100 1180	LEFS40 G -600	
LEFS40_G750_ LEFS40_G800_ LEFS40_G850_ 880 LEFS40_G900_ LEFS40_G950_ LEFS40_G1000_ LEFS40_G1100_ 1180	LEFS40 G -650	
LEFS40 G -800 LEFS40 G -850 880 LEFS40 G -900 1030 LEFS40 G -1000 1180 LEFS40 G -1100 1180	LEFS40 G -700	730
LEFS40 G -850 880 LEFS40 G -900 1030 LEFS40 G -1000 1030 LEFS40 G -1100 1180	LEFS40 G -750	
LEFS40_G900_ LEFS40_G950_ LEFS40_G1000_ LEFS40_G1100_ 1180_ 1180_	LEFS40 G -800	
LEFS40 G -950 1030 LEFS40 G -1000 1180 LEFS40 G -1100 1180	LEFS40 G -850	880
LEFS40_G1000_ 1030 LEFS40_G1100_ 1180	LEFS40 G -900	
LEFS40_G1000_ 1180	LEFS40 G -950	
1180	LEFS40 G -1000	1030
1180	LEFS40 G -1100	
LEF540_G1200_	LEFS40 G -1200	1180

LEFS G Series Auto Switch Mounting

Auto Switch Mounting Position



				[mm]
Model	Size	Α	В	Operating range
	25	45	51	4.9
LEFS⊡G	32	55	61	3.9
	40	79	85	5.3

* The applicable auto switch is D-M9 (N/P/B) (W) (M/L/Z).

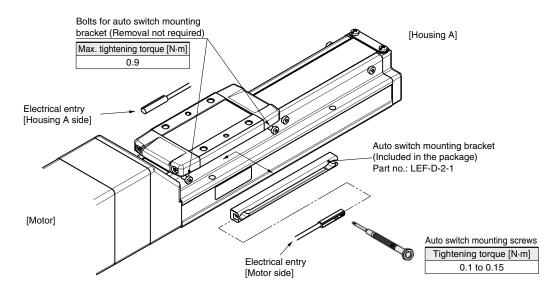
* The operating range is a guideline including hysteresis, not meant to be guaranteed. There may be large variations depending on the ambient environment.

* Adjust the auto switch after confirming the operating conditions in the actual setting.

Auto Switch Mounting

Rotate the bolts for the auto switch mounting bracket three to four times to loosen them (Removing them is not required), and slide and remove the auto switch mounting bracket. Then, insert a switch into the groove on the mounting bracket.

As the mounting bolts for installing the product body interfere with the auto switch mounting bracket, mount the auto switch mounting bracket after installing the product body. After setting in the mounting position, use a flat head watchmaker's screwdriver to tighten the auto switch mounting screw that is included.



- * The applicable auto switch is D-M9 (N/P/B) (W) (M/L/Z).
- * The direction of the lead wire entry is specified. If it is mounted in the opposite direction, the auto switch may malfunction.
- * When tightening the auto switch mounting screw (included with the auto switch), use a watchmaker's screwdriver with a handle diameter of about 5 to 6 mm.
- * If more than two auto switch mounting brackets are required, please order them separately. All eight bolts for attaching the auto switch mounting bracket at the stroke end are tightened into the body when the product is shipped. For 50-mm stroke type, only four bolts are tightened on the motor side.

Solid State Auto Switch Direct Mounting Type D-M9N/D-M9P/D-M9B

Auto switch model

Electrical entry direction

Applicable load

Power supply voltage Current consumption

Internal voltage drop

Leakage current

Indicator light

Standard

Wiring type

Output type

Load voltage

Load current



D-M9B

2-wire

24 VDC relay, PLC

24 VDC (10 to 28 VDC)

2.5 to 40 mA

4 V or less 0.8 mA or less

Grommet

- 2-wire load current is reduced (2.5 to 40 mA).
- Using flexible cable as standard spec.



Precautions

Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

Auto Switch Specifications

D-M9, D-M9V (With indicator light)

D-M9N

NPN

28 VDC or less

Refer to the SMC website for details on products that are compliant with international standards.

PLC: Programmable Logic Controller

D-M9P

In-line

PNP

Red LED illuminates when turned ON.

CE marking, RoHS

3-wire

IC circuit, Relay, PLC

5, 12, 24 VDC (4.5 to 28 V)

10 mA or less

40 mA or less

0.8 V or less at 10 mA (2 V or less at 40 mA)

100 µA or less at 24 VDC

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Auto Switch

JXC5H/6H series

[g]

Oilproof Flexible Heavy-duty Lead Wire Specifications

Auto sw	itch model	D-M9N D-M9P D-M9B		
Sheath	Outside diameter [mm]	2.6		
Inculator	Number of cores	3 cores (Brow	n/Blue/Black)	2 cores (Brown/Blue)
Insulator	Outside diameter [mm]		0.88	
Conductor	Effective area [mm ²]		0.15	
Conductor	Strand diameter [mm]		0.05	
Minimum bending radius [mm] (Reference values)			17	

* Refer to the Web Catalog for solid state auto switch common specifications.

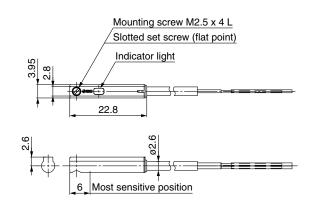
* Refer to the Web Catalog for lead wire lengths.

Weight

Auto switch model		D-M9N	D-M9P	D-M9B
	0.5 m (Nil)	8		7
Lood wire longth	1 m (M)	14		13
Lead wire length	3 m (L)	41		38
	5 m (Z)	6	8	63

Dimensions

D-M9□



JXCEH/9H/PH Series

[mm]

SMC

Normally Closed Solid State Auto Switch Direct Mounting Type $D-M9NE(V)/D-M9PE(V)/D-M9BE(V) \in$ (RoHS)

Grommet

- Output signal turns on when no magnetic force is detected.
- Can be used for the actuator adopted by the solid state auto switch D-M9 series (excluding special order products)





Caution

Precautions

Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

Auto Switch Specifications

Refer to the SMC website for details on products that are compliant with international standards.

DI C. Drogran

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[g]

	PLC: Programmable Logic Controller					
D-M9 E, D-M9 EV (With indicator light)						
Auto switch model	D-M9NE	D-M9NEV	D-M9PE	D-M9PEV	D-M9BE	D-M9BEV
Electrical entry direction	In-line	Perpendicular	In-line	Perpendicular	In-line	Perpendicular
Wiring type		3-w	/ire		2-1	vire
Output type	N	PN	-	_		
Applicable load		IC circuit, Relay, PLC				elay, PLC
Power supply voltage	Ę	5, 12, 24 VDC (4.5 to 28 V)			—	
Current consumption		10 mA or less			—	
Load voltage	28 VDC	28 VDC or less —			24 VDC (10) to 28 VDC)
Load current		40 mA	or less		2.5 to	40 mA
Internal voltage drop	0.8 V or l	0.8 V or less at 10 mA (2 V or less at 40 mA)			4 V c	or less
Leakage current	100 μA or less at 24 VDC			0.8 mA	or less	
Indicator light	Red LED illuminates when turned ON.					
Standard			CE marki	ng, RoHS		

Oilproof Flexible Heavy-duty Lead Wire Specifications

shible neary			•
tch model	D-M9NE(V) D-M9PE(V) D-M9BE(V)		
Outside diameter [mm]			
Number of cores	3 cores (Brow	n/Blue/Black)	2 cores (Brown/Blue)
Outside diameter [mm]	0.88		
Effective area [mm ²]		0.15	
Strand diameter [mm]		0.05	
Minimum bending radius [mm] (Reference values)		17	
	tch model Outside diameter [mm] Number of cores Outside diameter [mm] Effective area [mm ²] Strand diameter [mm]	tch model D-M9NE(V) Outside diameter [mm] Number of cores 3 cores (Brow Outside diameter [mm] Effective area [mm ²] Strand diameter [mm]	tch model D-M9NE(V) D-M9PE(V) Outside diameter [mm] 2.6 Number of cores 3 cores (Brown/Blue/Black) Outside diameter [mm] 0.88 Effective area [mm²] 0.15 Strand diameter [mm] 0.05

Refer to the Web Catalog for solid state auto switch common specifications.

Refer to the Web Catalog for lead wire lengths.

Weight

0.5 m (Nil)	8		_
		8	
1 m (M)*1	14		13
3 m (L)	41		38
5 m (Z)*1	68		63
	3 m (L)	3 m (L) 4	3 m (L) 41

*1 The 1 m and 5 m options are produced upon receipt of order.

[mm] D-M9□E D-M9 nn: Mounting screw M2.5 x 4 L NRO Slotted set screw (flat point) 500 (1000) (3000) (5000) IJ Indicator light Mounting screw M2.5 x 4 L Indicator light Slotted set screw 0.3 22.8 ø2.6 8 4.6 15.9 ധ ğ, 19.5 Most sensitive position 6 6 Most sensitive position

Dimensions

2-Color Indicator Solid State Auto Switch Direct Mounting Type D-M9NW/D-M9PW/D-M9BW (€ Rolls)

Grommet

- 2-wire load current is reduced (2.5 to 40 mA).
- Using flexible cable as standard spec.
- The proper operating range can be determined by the color of the light. (Red → Green ← Red)



Precautions

Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

Auto Switch Specifications

Refer to the SMC website for details on products that are compliant with international standards.

PLC: Programmable Logic Controller								
D-M9□W, D-M	D-M9 W, D-M9 WV (With indicator light)							
Auto switch model	D-M9NW	D-M9NW D-M9PW D-M9BW						
Electrical entry direction		In-line						
Wiring type	3-v	vire	2-wire					
Output type	NPN	NPN PNP						
Applicable load	IC circuit, I	24 VDC relay, PLC						
Power supply voltage	5, 12, 24 VDC	—						
Current consumption	10 mA	—						
Load voltage	28 VDC or less	24 VDC (10 to 28 VDC)						
Load current	40 mA	or less	2.5 to 40 mA					
Internal voltage drop	0.8 V or less at 10 mA	(2 V or less at 40 mA)	4 V or less					
Leakage current	100 μA or les	0.8 mA or less						
Indicator light	Operating range							
Standard		CE marking, RoHS						

Oilproof Flexible Heavy-duty Lead Wire Specifications

Auto swit	tch model	D-M9NW D-M9PW D-M9BW		D-M9BW
Sheath	Outside diameter [mm]	2.6		
Inculator	Number of cores	3 cores (Brow	/n/Blue/Black)	2 cores (Brown/Blue)
Insulator	Outside diameter [mm]	0.88		
Canduatar	Effective area [mm ²]		0.15	
Conductor	Strand diameter [mm]		0.05	
Minimum bending radius [mm] (Reference values)			17	

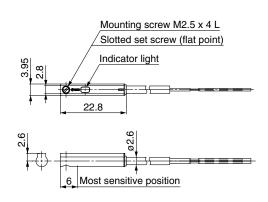
Refer to the **Web Catalog** for solid state auto switch common specifications.

* Refer to the Web Catalog for lead wire lengths.

Weight

Auto switch model		D-M9NW	D-M9PW	D-M9BW
	0.5 m (Nil)	8		7
Lood wire longth	1 m (M)	14		13
Lead wire length	3 m (L)	41		38
	5 m (Z)	6	68	63

D-M9⊡W



SMC

[g]

Auto Switch

[mm]





(Step Data Input Type p. 43	Model Selection
	High Performance Battery-less Absolute (Step Motor 24 VDC) JXC5H/6H Series	LEFS G Series
(EtherCAT/EtherNet/IP TM /PROFINET p. 50 High Performance Battery-less Absolute (Step Motor 24 VDC)	Auto Switch
	JXCEH/9H/PH Series EtherCAT EtherNet/IP CROFF EtherNet/IP	JXC5H/6H Series
	• Actuator Cable D.55	JXCEH/9H/PH Series

High Performance Controller (Step Data Input Type)

JXC5H/6H Series

High performance type



How to Order

JXC 5 H 7 3

3 Mounting

Screw mounting DIN rail

4 I/O cable length

	None	
	1	1.5 m
	3	3 m
	5	5 m

5 Actuator part number

Controller type

5

6

-						
Without cable specifications and actuator options						
Example	Example: Enter "LEFS25GA-100" for the					
	LEFS25GA-100B-R1□.					
BC	Blank controller*1					

*1 Requires dedicated software (JXC-BCW)

Parallel I/O (NPN) type

Parallel I/O (PNP) type

The controller is sold as single unit after the compatible actuator is set.

Connect to an actuator (LEFSDG) designated for a high performance controller. 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. This number should match that of the controller.

matches (NPN or PNP).

LEFS25GA-400 NPN 2 Check that the Parallel I/O configuration (2) $\widehat{1}$

2 Specification

Refer to the operation manual for using the products. Please download it via our website: https://www.smcworld.com

Specifications

Model	JXC5H JXC6H
Compatible motor	Step motor (Servo/24 VDC)
Power supply	Power supply voltage: 24 VDC $\pm 10\%$
Current consumption (Controller)	100 mA or less
Compatible encoder	Battery-less absolute encoder
Parallel input	11 inputs (Photo-coupler isolation)
Parallel output	13 outputs (Photo-coupler isolation)
Serial communication	RS485 (Only for the LEC-T1 and JXC-W2)
Memory	EEPROM
LED indicator	PWR, ALM
Cable length [m]	Actuator cable: 20 or less
Cooling system	Natural air cooling
Operating temperature range [°C]	0 to 40
Operating humidity range [%RH]	90 or less (No condensation)
Enclosure	IP30 (Excludes the connector)
Insulation resistance [M Ω]	Between all external terminals and the case: 50 (500 VDC)
Weight [g]	180 (Screw mounting), 200 (DIN rail mounting)

▲Caution

[CE/UKCA-compliant products]

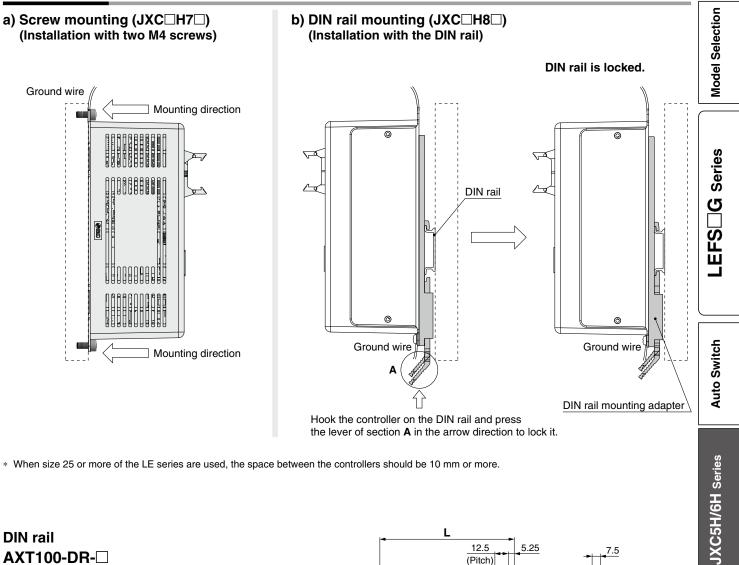
EMC compliance was tested by combining the electric actuator LE series and the JXC5H/6H series

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.



High Performance Controller (Step Data Input Type) JXC5H/6H Series

How to Mount



* When size 25 or more of the LE series are used, the space between the controllers should be 10 mm or more.

DIN rail AXT100-DR-

* For , enter a number from the No. line in the table below. Refer to the dimension drawings on page 45 for the mounting dimensions.

	L L	~		
	12.5		5.25	7.5
	(Pitch)	-		*
_	\square	Ь		
	$\phi \phi \phi \phi \phi \phi \phi \phi \phi \phi \phi$	ή ή		୍ ତା ଦ୍
		_	5.5	
			1.25	
		-	20	

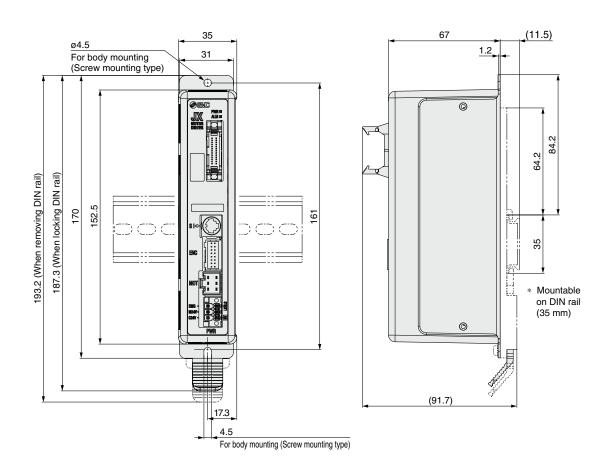
L Dime	L Dimensions [mm]																			
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5
No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
L	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5

DIN rail mounting adapter LEC-3-D0 (with 2 mounting screws)

This should be used when the DIN rail mounting adapter is mounted onto a screw mounting type controller afterward.

JXC5H/6H Series

Dimensions



High Performance Controller (Step Data Input Type) JXC5H/6H Series

Wiring Example

Parallel I/O Connector

* When you connect a PLC to the parallel I/O connector, use the I/O cable (LEC-CN5-□). * The wiring changes depending on the type of parallel I/O (NPN or PNP).

Wiring diagram

JXC5H C (NPN)

		Power supply 24 VDC
CN5		for I/O signal
COM+	A1	╞────╋─┤┝┐
COM-	A2	├ ── ├
IN0	A3	
IN1	A4	
IN2	A5	
IN3	A6	
IN4	A7	F
IN5	A8	
SETUP	A9	
HOLD	A10	
DRIVE	A11	
RESET	A12	
SVON	A13	
OUT0	B1	Load
OUT1	B2	Load
OUT2	B3	Load
OUT3	B4	Load
OUT4	B5	Load
OUT5	B6	Load
BUSY	B7	Load
AREA	B8	Load
SETON	B9	Load
INP	B10	Load
SVRE	B11	Load
*ESTOP	B12	Load
*ALARM	B13	Load

Input Signal

Name	Details
COM+	Connects the power supply 24 V for input/output signal
COM-	Connects the power supply 0 V for input/output signal
IN0 to IN5	Step data specified bit no. (Input is instructed by combining IN0 to 5.)
SETUP	Instruction to return to origin
HOLD	Temporarily stops operation
DRIVE	Instruction to drive
RESET	Resets alarm and interrupts operation
SVON	Servo ON instruction

JXC6H□□ (PNP)			
()			Power supply 24 VDC
	CN5		for I/O signal
	COM+	A1	╞────╋─┤┝┐
	COM-	A2	<u>├</u> ─── <u></u>
	IN0	A3	
	IN1	A4	
	IN2	A5	
	IN3	A6	
	IN4	A7	
	IN5	A8	
	SETUP	A9	
	HOLD	A10	
	DRIVE	A11	
	RESET	A12	
	SVON	A13	
	OUT0	B1	Load
	OUT1	B2	Load
	OUT2	B3	Load
	OUT3	B4	Load
	OUT4	B5	Load
	OUT5	B6	Load
	BUSY	B7	Load
	AREA	B8	Load
	SETON	B9	Load
	INP	B10	Load
	SVRE	B11	Load
	*ESTOP	B12	Load
	*ALARM	B13	Load
Output Signal			

Output Signal

Details
Outputs the step data no. during operation
Outputs when the actuator is moving
Outputs within the step data area output setting range
Outputs when returning to origin
Outputs when target position or target force is reached $^{\ast 2}$ (Turns on when the positioning or pushing is completed.)
Outputs when servo is on
OFF when EMG stop is instructed
OFF when alarm is generated

*1 Signal of negative-logic circuit (N.C.)

*2 Check the catalog and operation manual of each actuator model which is capable of performing pushing operations.

The "Specifications" table for models which are capable of performing pushing operations includes an item for the pushing force.

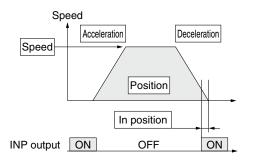
JXC5H/6H Series

Step Data Setting

1. Step data setting for positioning

In this setting, the actuator moves toward and stops at the target position.

The following diagram shows the setting items and operation. The setting items and set values for this operation are stated below.



Step	Data (Positionin	 ◎: Need to be set. ○: Need to be adjusted as required. g) —: Setting is not required.
Necessity	Item	Details
O	Movement MOD	When the absolute position is required, set Absolute. When the relative position is required, set Relative.
0	Speed	Transfer speed to the target position
O	Position	Target position
0	Acceleration	Parameter which defines how rapidly the actuator reaches the speed set. The higher the set value, the faster it reaches the speed set.
0	Deceleration	Parameter which defines how rapidly the actuator comes to stop. The higher the set value, the quicker it stops.
0	Pushing force*1	Set 0. (If values 1 to 100 are set, the operation will be changed to the pushing operation.)
_	Trigger LV	Setting is not required.
—	Pushing speed	Setting is not required.
0	Moving force	Max. torque during the positioning operation (No specific change is required.)
0	Area 1, Area 2	Condition that turns on the AREA output signal.
0	In position	Condition that turns on the INP output signal. When the actuator enters the range of [in position], the INP output signal turns on. (It is unnecessary to change this from the initial value.) When it is necessary to output the arrival signal before the operation is completed, make the value larger.

*1 Check the catalog and operation manual of each actuator model which is capable of performing pushing operations. The "Specifications" table for models which are capable of performing

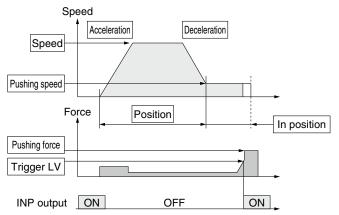
The actuator moves toward the pushing start position, and when it reaches that position, it starts pushing with the set force or less.

The following diagram shows the setting items and operation. The setting items and set values for this operation are stated below.

2. Step data setting for pushing*2

*2 Check the catalog and operation manual of each actuator model which is capable of performing pushing operations.

The "Specifications" table for models which are capable of performing pushing operations includes an item for the pushing force.



Step	Data (Pushing)	\bigcirc : Need to be set. \bigcirc : Need to be adjusted as required.
Necessity	Item	Details
0	Movement MOD	When the absolute position is required, set Absolute. When the relative position is required, set Relative.
O	Speed	Transfer speed to the pushing start position
O	Position	Pushing start position
0	Acceleration	Parameter which defines how rapidly the actuator reaches the speed set. The higher the set value, the faster it reaches the speed set.
0	Deceleration	Parameter which defines how rapidly the actuator comes to stop. The higher the set value, the quicker it stops.
O	Pushing force*3	Pushing force ratio is defined. The setting range differs depending on the electric actuator type. Refer to the operation manual for the electric actuator.
Ø	Trigger LV	Condition that turns on the INP output signal. The INP output signal turns on when the generated force exceeds the value. Trigger level should be the pushing force or less.
0	Pushing speed*3	Pushing speed during pushing. When the speed is set fast, the electric actuator and workpieces might be damaged due to the impact when they hit the end, so this set value should be smaller. Refer to the operation manual for the electric actuator.
0	Moving force	Max. torque during the positioning operation (No specific change is required.)
0	Area 1, Area 2	Condition that turns on the AREA output signal.
Ø	In position	Transfer distance during pushing. If the transferred distance exceeds the setting, it stops even if it is not pushing. If the transfer distance is exceeded, the INP output signal will not turn on.

*3 Check the catalog and operation manual of each actuator model which is capable of performing pushing operations.

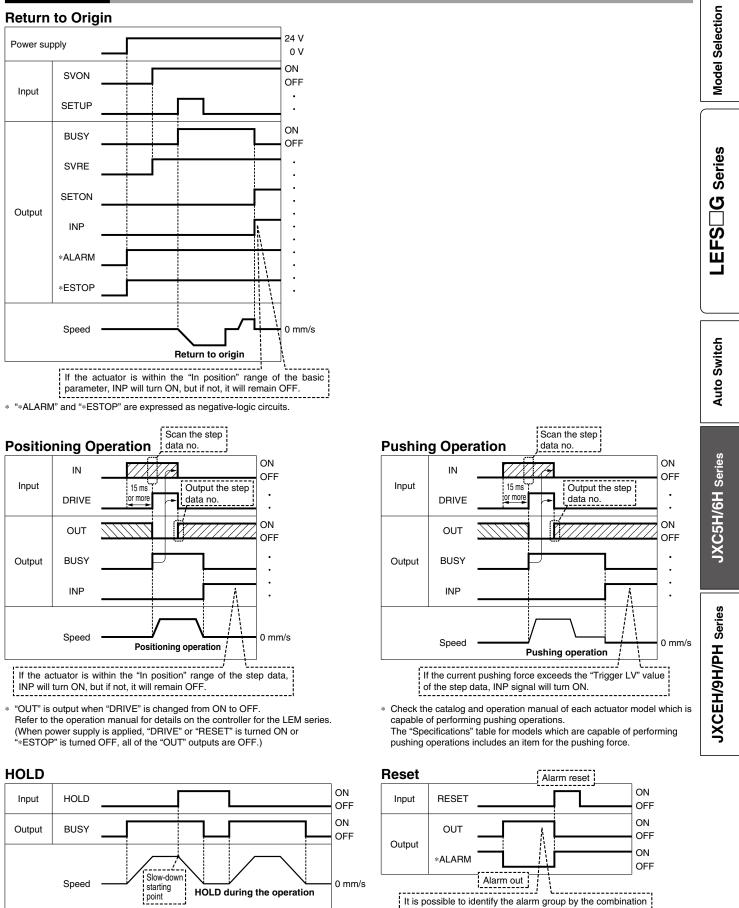
The "Specifications" table for models which are capable of performing pushing operations includes an item for the pushing force.

pushing operations includes an item for the pushing force.



High Performance Controller (Step Data Input Type) JXC5H/6H Series

Signal Timing



SMC

* When the actuator is within the "In position" range in the pushing operation, it does not stop even if HOLD signal is input.

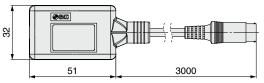
of OUT signals when the alarm is generated. "*ALARM" is expressed as a negative-logic circuit.

JXC5H/6H Series

Options

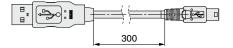
Communication cable for controller setting

(1) Communication cable JXC-W2A-C



* It can be connected to the controller directly.

2 USB cable LEC-W2-U



③ Controller setting kit JXC-W2A

A set which includes a communication cable (JXC-W2A-C) and a USB cable (LEC-W2-U)

<Controller setting software/USB driver>

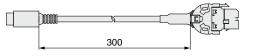
- Controller setting software
- USB driver (For JXC-W2A-C)
- Download from SMC's website: https://www.smcworld.com

Hardware Requirements

OS	Windows [®] 7, Windows [®] 8.1, Windows [®] 10, Windows [®] 11
Communication interface	USB 1.1 or USB 2.0 ports
Display	1024 x 768 or more

Windows®7, Windows®8.1, Windows®10, and Windows®11 are * registered trademarks of Microsoft Corporation in the United States.

■ Conversion cable P5062-5 (Cable length: 300 mm)



* To connect the teaching box (LEC-T1-3DGD) or controller setting kit (LEC-W2D) to the controller, a conversion cable is required.

> B13 A13

I/O cable

	- CN5 - 1	
1	1.5	
3	3	
5	5	

Controller side (Terminal no.) B1 A1 (14.4)

Connector	Insulation	Dot	Dot
pin no.	color	mark	color
A1	Light brown		Black
A2	Light brown		Red
A3	Yellow		Black
A4	Yellow		Red
A5	Light green		Black
A6	Light green		Red
A7	Gray		Black
A8	Gray		Red
A9	White		Black
A10	White		Red
A11	Light brown		Black
A12	Light brown		Red
A13	Yellow		Black

■ Power supply plug JXC-CPW

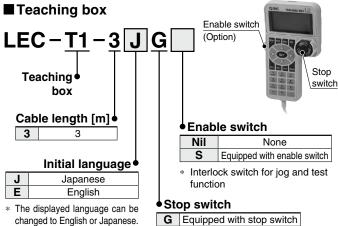
	S.S.		
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		T	Î
	(C	de la companya de la comp	

The power supply plug is an accessory. <Applicable cable size> AWG20 (0.5 mm²), cover diameter 2.0 mm or less

	(1) C24V	④ 0V
664	0	900
654 321	2 M24V	(5) N.C.
320	③ EMG	6 LK RLS

Power supply plug

Terminal name	Function	Details
٥V	Common supply (–)	The M24V terminal, C24V terminal, EMG terminal, and LK RLS terminal are common (–).
M24V	Motor power supply (+)	Motor power supply (+) of the controller
C24V	Control power supply (+)	Control power supply (+) of the controller
EMG	Stop (+)	Connection terminal of the external stop circuit
LK RLS	Lock release (+)	Connection terminal of the lock release switch



changed to English or Japanese.

(ø8.9)

Specifications

Item	Description					
Switch	Stop switch, Enable switch (Option)					
Cable length [m]	3					
Enclosure	IP64 (Except connector)					
Operating temperature range [°C]	5 to 50					
Operating humidity range [%RH]	90 or less (No condensation)					
Weight [g]	350 (Except cable)					

Connector	Insulation	Dot	Dot
pin no.	color	mark	color
B1	Yellow		Red
B2	Light green		Black
B3	Light green		Red
B4	Gray		Black
B5	Gray		Red
B6	White		Black
B7	White		Red
B8	Light brown		Black
B9	Light brown		Red
B10	Yellow		Black
B11	Yellow		Red
B12	Light green		Black
B13	Light green		Red
_		Shield	

PLC side

Α1 A13

13

* Conductor size: AWG28

[g]

	Weight	
	Product no.	Weight
	LEC-CN5-1	170
	LEC-CN5-3	320
ſ	LEC-CN5-5	520

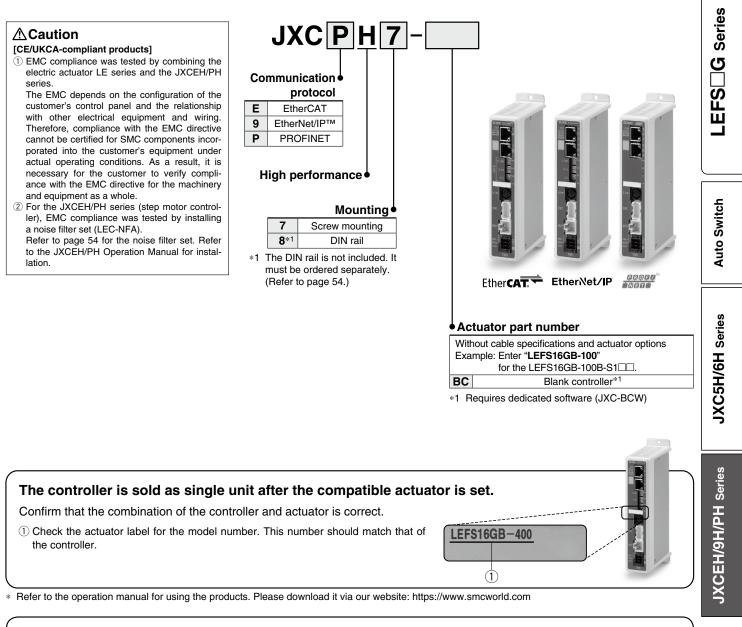


High Performance Step Motor Controller JXCEH/9H/PH Series



Model Selection

How to Order



Precautions for blank controllers (JXC□H□-BC)

A blank controller is a controller to which the customer can write the data of the actuator it is to be combined and used with. Use the dedicated software (JXC-BCW) for data writing.

• Please download the dedicated software (JXC-BCW) via our website.

• Order the communication cable for controller setting (JXC-W2A-C) and USB cable (LEC-W2-U) separately to use this software.

SMC website: https://www.smcworld.com

GSMC

JXCEH/9H/PH Series

Specifications

	Moc	lel	JXCEH	JXC9H	JXCPH					
Ne	etwork		EtherCAT	EtherNet/IP™	PROFINET					
Co	mpatible	motor		Step motor (Servo/24 VDC)						
Po	wer suppl	У		Power voltage: 24 VDC ±10%						
Cur	rent consumpt	tion (Controller)	200 mA or less	200 mA or less	200 mA or less					
Co	ompatible	encoder		Battery-less absolute encoder						
su	Annliachta	Protocol	EtherCAT*2	EtherNet/IP™*2	PROFINET*2					
atio	Applicable system	Version*1	Conformance Test	Volume 1 (Edition 3.14)	Specification					
ŝ		version	Record V.1.2.6	Volume 2 (Edition 1.15)	Version 2.32					
specifications	Commun	ication	100 Mbps*2	10/100 Mbps*2	100 Mbps*2					
			TOO MBPS -	(Automatic negotiation)						
cati	Configuration file*3		ESI file	EDS file	GSDML file					
Ē		ation area	Input 20 bytes	Input 36 bytes	Input 36 bytes					
Communication	1/O OCCUP	alion alea	Output 36 bytes	Output 36 bytes	Output 36 bytes					
ပို	S Terminating resistor		Not included							
Me	emory		EEPROM							
LE	D indicate	or	PWR, RUN, ALM, ERR	PWR, ALM, MS, NS	PWR, ALM, SF, BF					
Ca	ble length	[m]		Actuator cable: 20 or less						
Co	oling syst	tem		Natural air cooling						
Ope	erating temperating	ature range [°C]		0 to 40 (No freezing)*4						
Ор	erating humidi	ty range [%RH]		90 or less (No condensation)						
En	closure			IP30 (Excludes the connector)						
Ins	ulation resi	stance [M Ω]	Betweer	n all external terminals and the case: 50 (50	00 VDC)					
	sialet [a]		260 (Screw mounting)	250 (Screw mounting)	260 (Screw mounting)					
VV (eight [g]		280 (DIN rail mounting)	270 (DIN rail mounting)	280 (DIN rail mounting)					

*1 Please note that versions are subject to change.

*2 Use a shielded communication cable with CAT5 or higher for the PROFINET, EtherNet/IP™, and EtherCAT.

*3 The files can be downloaded from the SMC website.

*4 The operating temperature range for both controller version 1 products and controller version 2 products is 0 to 40°C. Refer to the **Web Catalog** for details on identifying controller version symbols

Trademark

EtherNet/IP[®] is a registered trademark of ODVA, Inc.

EtherCAT® is registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Example of Operation Command

In addition to the step data input of 64 points maximum in each communication protocol, the changing of each parameter can be performed in real time via numerical data defined operation. * Numerical values other than "Moving force," "Area 1," and "Area 2" can be used to perform operation under numerical instructions from JXCL1.

<Application example> Movement between 2 points

No.	Movement mode	Speed	Position	Acceleration	Deceleration	Pushing force	Trigger LV	Pushing speed	Moving force	Area 1	Area 2	In position
0	1: Absolute	100	10	3000	3000	0	0	0	100	0	0	0.50
1	1: Absolute	100	100	3000	3000	0	0	0	100	0	0	0.50

<Step no. defined operation>

Sequence 1: Servo ON instruction

Sequence 2: Instruction to return to origin

Sequence 3: Specify step data No. 0 to input the DRIVE signal.

Sequence 4: Specify step data No. 1 after the DRIVE signal has been temporarily turned OFF to input the DRIVE signal.

<Numerical data defined operation>

Sequence 1: Servo ON instruction

Sequence 2: Instruction to return to origin

Sequence 3: Specify step data No. 0 and turn ON the input instruction flag (position). Input 10 in the target position. Subsequently the start flag turns ON. Sequence 4: Turn ON step data No. 0 and the input instruction flag (position) to change the target position to 100 while the start flag is ON.

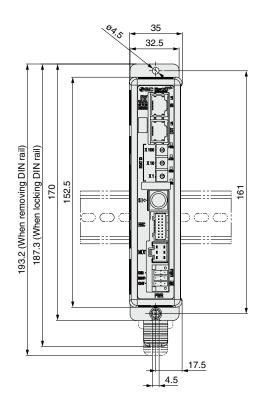
The same operation can be performed with any operation command.

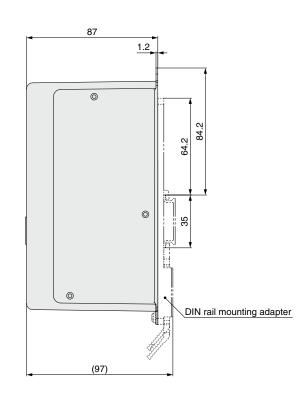
Sequence 1 \rightarrow		
Sequence 2→	▲	
Sequence 3→	▶	
Sequence $4 \rightarrow$		
	0 10	100
	SMC	

High Performance Step Motor Controller **JXCEH/9H/PH Series**

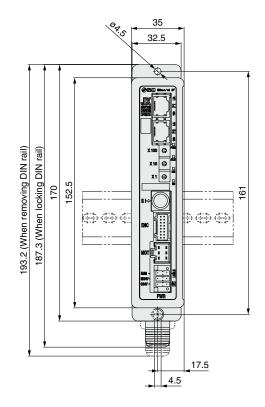
Dimensions

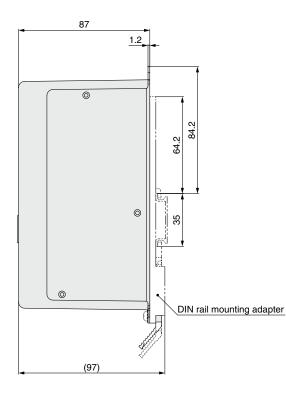
JXCEH





JXC9H





Model Selection

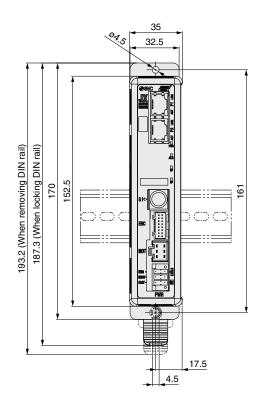
LEFS G Series

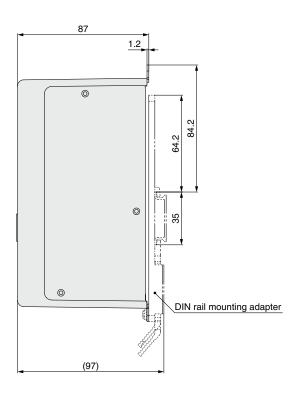
Auto Switch

JXCEH/9H/PH Series

Dimensions

JXCPH





L

12.5

(Pitch)

5.25

5.5

1.25

7.5

DIN rail AXT100-DR-⊡

For □, enter a number from the No. line in the table below.
 Refer to the dimension drawings on pages 52 and 53 for the mounting dimensions.

L Dimensions [mm]

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
L	23	35.5	48	60.5	73	85.5	98	110.5	123	135.5	148	160.5	173	185.5	198	210.5	223	235.5	248	260.5
No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
L	273	285.5	298	310.5	323	335.5	348	360.5	373	385.5	398	410.5	423	435.5	448	460.5	473	485.5	498	510.5

DIN rail mounting adapter LEC-3-D0 (with 2 mounting screws)

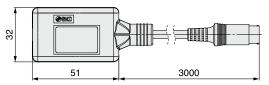
This should be used when the DIN rail mounting adapter is mounted onto a screw mounting type controller afterward.

High Performance Step Motor Controller **JXCEH/9H/PH Series**

Options

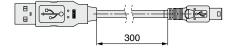
Communication cable for controller setting

(1) Communication cable JXC-W2A-C



* It can be connected to the controller directly.

2 USB cable LEC-W2-U



3Controller setting kit JXC-W2A

A set which includes a communication cable (JXC-W2A-C) and a USB cable (LEC-W2-U) $% \left(1-\frac{1}{2}\right) =0$

<Controller setting software/USB driver>

· Controller setting software

· USB driver (For JXC-W2A-C)

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

Hardware Requirements

OS	Windows [®] 7, Windows [®] 8.1, Windows [®] 10, Windows [®] 11
Communication interface	USB 1.1 or USB 2.0 ports
Display	1024 x 768 or more

* Windows®7, Windows®8.1, Windows®10, and Windows®11 are registered trademarks of Microsoft Corporation in the United States.

DIN rail mounting adapter LEC-3-D0

* With 2 mounting screws

Cable length [m]

Operating temperature range [°C]

Operating humidity range [%RH]

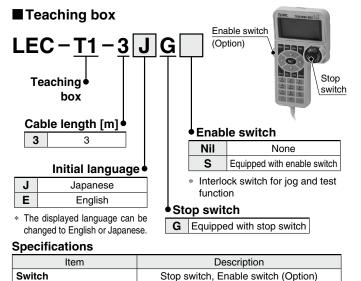
Enclosure

Weight [g]

This should be used when the DIN rail mounting adapter is mounted onto a screw mounting type controller afterward.

■ DIN rail AXT100-DR-□

∗ For □, enter a number from the No. line in the table on pages 44 and 53. Refer to the dimension drawings on pages 45, 52, and 53 for the mounting dimensions.



3

IP64 (Except connector)

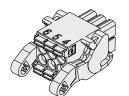
5 to 50

90 or less (No condensation)

350 (Except cable)

■ Power supply plug JXC-CPW

* The power supply plug is an accessory.



① C24V	(4) OV
2 M24V	(5) N.C.
(3) EMG	6 LK RLS

Model Selection

LEFS G Series

Auto Switch

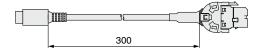
Power supply plug

Terminal name	Function	Details
٥V	Common supply (–)	The M24V terminal, C24V terminal, EMG terminal, and LK RLS terminal are common (–).
M24V	Motor power supply (+)	Motor power supply (+) of the controller
C24V	Control power supply (+)	Control power supply (+) of the controller
EMG	Stop (+)	Connection terminal of the external stop circuit
LK RLS	Lock release (+)	Connection terminal of the lock release switch

(6)(5)(4)

321

Conversion cable P5062-5 (Cable length: 300 mm)

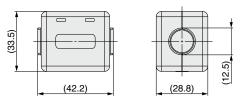


∗ To connect the teaching box (LEC-T1-3□G□) or controller setting kit (LEC-W2) to the controller, a conversion cable is required.

■Noise filter set

LEC-NFA

Contents of the set: 2 noise filters (Manufactured by WURTH ELEKTRONIK: 74271222)



- JXC5H/6H Series
 - **JXCEH/9H/PH** Series
- * Refer to the JXCEH/PH series Operation Manual for installation.

JXC5H/6H Series JXCEH/9H/PH Series Actuator Cable (Option)

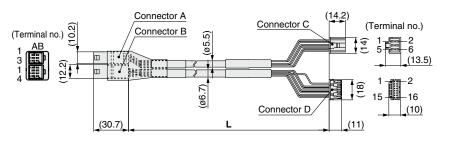
[Robotic cable for battery-less absolute (Step motor 24 VDC)]

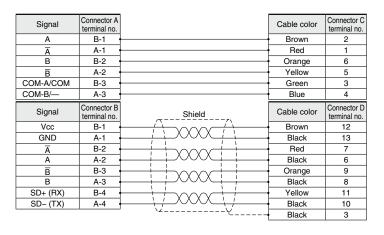
LE -	-CE-1					
Cable length (L) [m]						
1	1.5					
3	3					
3 5	5					
8	8* ¹					
Α	10* ¹					
В	15* ¹					
С	20*1					

*1 Produced upon receipt of order

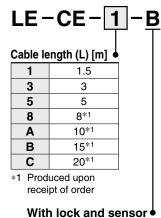
Weight

Product no.	Product no. Weight [g]							
LE-CE-1	190							
LE-CE-3	360							
LE-CE-5	570							
LE-CE-8	900	Robotic cable						
LE-CE-A	1120							
LE-CE-B	1680							
LE-CE-C	2210							





[Robotic cable with lock for battery-less absolute (Step motor 24 VDC)]



Connector A (Terminal no.) อุ Connector B (14.2)(ø5.5) (ø6.7) (Terminal no.) Connector D -2 -6 (1<u>3.5)</u> 12.2) 5 841 -2 him 1 -16 AB 15 Connector C (10.2) (10) (14.7) Connector E (30.7 (11)

Weight		
Product no.	Weight [g]	Note
LE-CE-1-B	240	
LE-CE-3-B	460	
LE-CE-5-B	740	
LE-CE-8-B	1170	Robotic cable
LE-CE-A-B	1460	
LE-CE-B-B	2120	
LE-CE-C-B	2890	

Signal	Connector A terminal no.		Cable color	Connector D terminal no.
A	B-1		Brown	2
Ā	A-1		Red	1
В	B-2		Orange	6
B	A-2		Yellow	5
COM-A/COM	B-3		Green	3
COM-B/	A-3		Blue	4
Signal	Connector B terminal no.	Shield	Cable color	Connector E terminal no.
Vcc	B-1		Brown	12
GND	A-1		Black	13
Ā	B-2		Red	7
A	A-2		Black	6
B	B-3		Orange	9
В	A-3		Black	8
SD+ (RX)	B-4		Yellow	11
SD- (TX)	A-4		Black	10
	Connector C	·2γγ	Black	3
Signal	terminal no.			
Lock (+)	B-1		Red	4
Lock (-)	A-1		Black	5
Sensor (+)	B-3		Brown	1
Sensor (-)	A-3		Blue	2

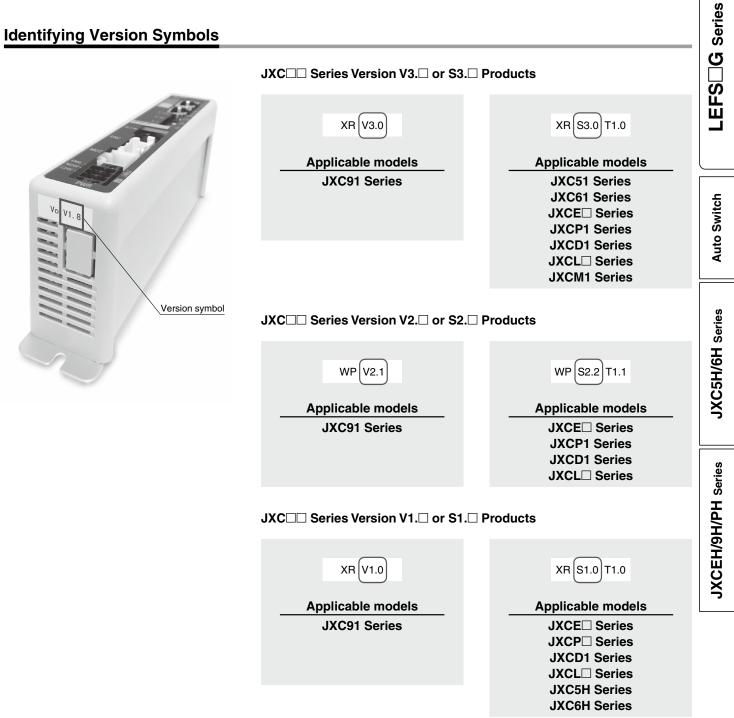


JXC 1/JXC F/JXC H Series **Precautions Relating to Differences in Controller Versions**

As the controller version of the JXC series differs, the internal parameters are not compatible.

- If using the JXC□1□-BC, please use the latest version of the JXC-BCW (parameter writing tool).
- There are currently 3 versions available: version 1 products (V1. or S1.), version 2 products (V2. or S2.), and version 3 products (V3. or S3.). Keep in mind that in order to write a backup file (.bkp) to another controller with the JXC-BCW, it needs to be the same version as the controller that created the file. (For example, a backup file created by a version 1 product can only be written to another version 1 product, and so on.)

Identifying Version Symbols



Model Selectior

JXC H Series

Blank Controller Versions and Applicable Battery-less Absolute Type Electric Actuator Sizes

The applicable battery-less absolute type electric actuator size range differs depending on the controller version. Be sure to confirm the controller version before using a blank controller.

Blank Controller Versions/Applicable Electric Actuator Sizes (JXC H Series)

Blank cor	ntroller		Applicable electric actuator size					
Series	Controller version LEFS□G LEKF□G LEY□G		LEG	LESYH⊡G				
JXC9H series JXCEH series JXCPH series	All versions	16, 25, 32, 40	16, 25, 40		8, 16, 25			
	Version 1.0	25, 32, 40	25, 32, 40	25, 40	25, 32, 40	16, 25		
JXC5H/6H series	Version 1.1 or higher	16, 25, 32, 40		16, 25, 40		8, 16, 25		



Electric Actuators Battery-less Absolute Encoder Type Specific Product Precautions

Be sure to read this before handling the products. Refer to the back cover for safety instructions. For electric actuator precautions, refer to the "Handling Precautions for SMC Products" and the "Operation Manual" on the SMC website: https://www.smcworld.com

Handling

1. Absolute encoder ID mismatch error at the first connection

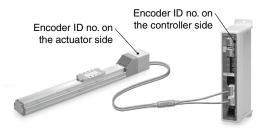
In the following cases, an "ID mismatch error" alarm occurs after the power is turned ON. Perform a return to origin operation after resetting the alarm before use.

- When an electric actuator is connected and the power is turned ON for the first time after purchase*1
- · When the actuator or motor is replaced
- · When the controller is replaced
- *1 If you have purchased an electric actuator and controller with the set part number, the pairing may have already been completed and the alarm may not be generated.

"ID mismatch error"

Operation is enabled by matching the encoder ID on the electric actuator side with the ID registered in the controller. This alarm occurs when the encoder ID is different from the registered contents of the controller. By resetting this alarm, the encoder ID is registered (paired) to the controller again.

When a controller is changed after pairing is completed								
Encoder ID no. (* Numbers below are examples.)								
Actuator	17623 17623 17623 17623							
Controller	17623 17699 17699 17623							
ID mismatch error occurred?	No	Yes	Error reset \Rightarrow No					

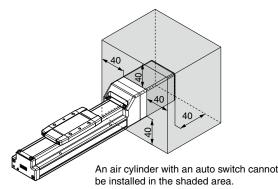


The ID number is automatically checked when the control power supply is turned ON. An error is output if the ID number does not match.

2. In environments where strong magnetic fields are present, use may be limited.

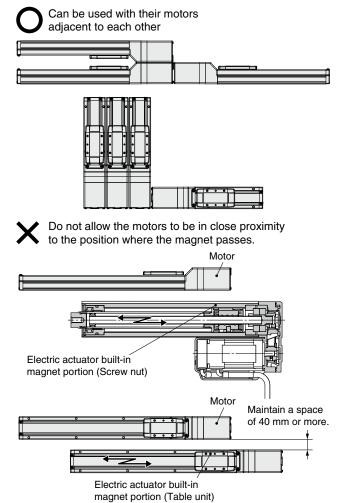
A magnetic sensor is used in the encoder. Therefore, if the actuator motor is used in an environment where strong magnetic fields are present, malfunction or failure may occur. Do not expose the actuator motor to magnetic fields with a magnetic flux density of 1 mT or more.

When installing an electric actuator and an air cylinder with an auto switch (ex. CDQ2 series) or multiple electric actuators side by side, maintain a space of 40 mm or more around the motor. Refer to the construction drawing of the actuator motor.



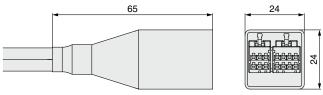
• When lining up actuators

SMC actuators can be used with their motors adjacent to each other. However, for actuators with a built-in auto switch magnet (the LEY and LEF series), maintain a space of 40 mm or more between the motors and the position where the magnet passes. For the LEF series, the magnet is in the middle of the table, and for the LEY series, the magnet is in the piston portion. (Refer to the construction drawings in the catalog for details.)



3. The connector size of the motor cable is different from that of the electric actuator with an incremental encoder.

The motor cable connector of an electric actuator with a battery-less absolute encoder is different from that of an electric actuator with an incremental encoder. As the connector cover dimensions are different, take the dimensions below into consideration during the design process.



Battery-less absolute encoder connector cover dimensions

CE/UKCA/UL-compliance List * For CE, UKCA, and UL-compliant products, refer to the tables below and the following pages.

Controllers "O": Compliant "x": Not compliant

Compatible motor Series C (UK Distance Step motor (Incremental) JXCE1 O E480340 JXCP1 O E480340 JXCD1 O E480340 JXCD1 O E480340 JXCD1 O E480340 JXCLF O E480340 JXCLF O E480340 JXCLF O E480340 JXCLF O E39743 LECP2 O E339743 JXC51/61 O E480340 JXC91 O E480340 JXC11 O E48						
JXCE1 O E480340 JXCP1 O E480340 JXCD1 O E480340 JXCLF O E480340 JXCLF O E480340 LECP1 O E339743 LECP2 O E339743 JXC51/61 O E480340 JXCP1 O E480340 JXCD1 O E480340 JXCLF O E480340 JXCLF O E480340 JXCH6H O E480340 JXCH1 O E480340 JXCH4 O E480340 JXCH6H O <t< th=""><th>Compatible motor</th><th>Series</th><th>UK</th><th></th><th>cALus</th><th></th></t<>	Compatible motor	Series	UK		c AL us	
JXC91 O E480340 JXCP1 O E480340 JXCD1 O E480340 JXCD1 O E480340 JXCL1 O E480340 JXCL1 O E480340 JXCL1 O E480340 JXCL1 O E480340 JXCLF O E480340 LECP1 O E39743 LECP2 O E39743 JXC51/61 O E480340 JXC91 O E480340 JXC11 O E480340 JXC11 O E480340 JXC11 O E480340 JXC11 O E480340 JXC9H O E480340 JXC9H O E480340 JXC9H O E4			CA	Compliance	Certification No. (File No.)	
JXCP1 O E480340 JXCD1 O E480340 JXCL1 O E480340 JXCL1 O E480340 JXCLF O E480340 LECP1 O E339743 LECP2 O E339743 LECP2 O E339743 JXC51/61 O E480340 JXC51/61 O E480340 JXC91 O E480340 JXC11 O E480340 JXC11 O E480340 JXC11 O E480340 JXCH1 O E480340 JXC9H O <		JXCE1	0	0	E480340	
Step motor (Incremental) JXCD1 O E480340 JXCL1 O E480340 JXCLF O E480340 LECP1 O E339743 LECP2 O E339743 LECP4 O E339743 JXC51/61 O E480340 JXC51/61 O E480340 JXC91 O E480340 JXC11 O E480340 JXC11 O E480340 JXC11 O E480340 JXC14 O E480340 JXC91 O E480340 JXC14 O E480340 JXC91 O E480340 JXC91 O E480340 JXC91 O E480340 <		JXC91	0	0	E480340	
Step motor (Incremental) JXCL1 O E480340 JXCLF O E480340 LECP1 O E339743 LECP2 O E339743 LECPA O E339743 JXC51/61 O E480340 JXC51/61 O E480340 JXC91 O E480340 JXC91 O E480340 JXC91 O E480340 JXC91 O E480340 JXC1 O E480340 JXC2H O E480340 JXC9H O E480340 JXC9H O E480340 JXC9H O E480340 JXC9H		JXCP1	0	0	E480340	
JXCL1 O E480340 JXCLF O E480340 LECP1 O E339743 LECP2 O E339743 LECPA O E480340 JXC51/61 O E480340 JXC51/61 O E480340 JXC91 O E480340 JXC11 O E480340 JXC11 O E480340 JXC11 O E480340 JXC11 O E480340 JXC9H O E480340 Servo motor (24 VDC) LECA6 O E339743 M	Stop motor	JXCD1	0	0	E480340	
JXCLF O C E480340 LECP1 O E339743 E339743 LECP2 O E339743 JXC51/61 O E339743 JXC51/61 O E480340 JXC51/61 O E480340 JXC91 O E480340 JXC91 O E480340 JXC91 O E480340 JXC91 O E480340 JXC91 O E480340 JXC11 O E480340 JXC11 O E480340 JXCH1 O E480340 JXC91 O E480340 JXCH1 O E480340 JXC91 O E480340 JXCH1 O E480340 JXC91 O E480340 JXC91 O E48034	•	JXCL1	0	0	E480340	
LECP2 O E339743 LECPA O E339743 LECPA O E339743 JXC51/61 O E480340 JXC91 O E480340 JXC11 O E480340 JXC9H O E480340 JXC9H O E480340 JXC9H O E480340 Servo motor (24 VDC) LECA6 O E339743 Multi-axis step motor controller JXC33 ×	(incremental)	JXCLF	0	0	E480340	
LECPA O E339743 JXC51/61 O E480340 JXC91 O E480340 JXC1 O E480340 JXC9H O E480340 Servo motor (24 VDC) JXC73 X Multi-axis step motor controller JXC93 X		LECP1	0	0	E339743	
JXC51/61 O E480340 JXC91 O E480340 JXC91 O E480340 JXC91 O E480340 JXC91 O E480340 JXCP1 O E480340 JXCD1 O E480340 JXC1 O E480340 JXC9H O E339743 <td></td> <th>LECP2</th> <td>0</td> <td>0</td> <td>E339743</td> <td></td>		LECP2	0	0	E339743	
JXCE1 O E480340 JXC91 O E480340 JXCP1 O E480340 JXCP1 O E480340 JXCD1 O E480340 JXCD1 O E480340 JXCI1 O E480340 JXCH O E480340 JXCI1 O E480340 JXCH O E480340 JXCPH O E480340 JXCPH O E480340 JXCY3 X Multi-axis step motor controller JXC93		LECPA	0	0	E339743	
Step motor (Battery-less absolute) JXC91 O E480340 JXCP1 O E480340 JXCD1 O E480340 JXCD1 O E480340 JXCL1 O E480340 JXCL1 O E480340 JXCL1 O E480340 JXCL1 O E480340 JXCH1 O E480340 JXCM1 O E480340 JXCH1 O E480340 JXCH O E480340 JXCH1 O E480340 JXC9H O E480340 JXC9H O E480340 Servo motor (24 VDC) JXCPH O E480340 JXC9H O E480340 Multi-axis step motor controller JXC73 X — —		JXC51/61	0	0	E480340	
Step motor (Battery-less absolute) JXCP1 O E480340 JXCD1 O E480340 JXCL1 O E480340 JXCL1 O E480340 JXCLF O E480340 JXCL1 O E480340 JXCLF O E480340 JXCLF O E480340 JXCSH/6H O E480340 JXCSH/6H O E480340 JXC9H O E480340 JXC9H O E480340 JXC9H O E480340 Servo motor (24 VDC) LECA6 O E339743 O x Multi-axis step motor controller JXC93 X		JXCE1	0	0	E480340	;
JXCP1 ○ ○ E480340 JXCD1 ○ E480340 JXCD1 ○ E480340 JXCL1 ○ E480340 JXCLF ○ E480340 JXCM1 ○ E480340 JXCM1 ○ E480340 JXCH ○ E480340 JXCPH ○ E480340 Servo motor (24 VDC) LECA6 ○ E339743 Multi-axis step motor controller JXC93 × −	Stop motor	JXC91	0	0	E480340	
JXCD1 O E480340 JXCL1 O E480340 JXCLF O E480340 JXCM1 O E480340 JXCM1 O E480340 JXCM1 O E480340 JXCH O E480340 JXCH O E480340 JXCH O E480340 JXC9H O E480340 Servo motor (24 VDC) LECA6 O E339743 Multi-axis step motor controller JXC93 ×		JXCP1	0	0	E480340	
JXCLI O E480340 JXCLF O E480340 JXCM1 O E480340 High performance step motor (24 VDC) JXCSH/6H O E480340 JXCSH/6H O E480340 JXC94 JXCPH O E480340 JXC94 Servo motor (24 VDC) LECA6 O E39743 Multi-axis step motor controller JXC93 × —	· · ·	JXCD1	0	0	E480340	
JXCM1 O E480340 High performance step motor (24 VDC) JXC5H/6H O E480340 JXC9H O E480340 JXC9H O E480340 JXC9H O E480340 JXC9H O E480340 Servo motor (24 VDC) JXC9H O E480340 JXC9H O E480340 JXC9H O E480340 Servo motor (24 VDC) JXC9A O E39743 JXC9A O C Multi-axis step motor controller JXC93 O X — —	absolute)	JXCL1	0	0	E480340	
High performance step motor (24 VDC) JXC5H/6H O E480340 JXC9H O E480340 JXC9H O E480340 Servo motor (24 VDC) JXC9H O E480340 E480340 Servo motor (24 VDC) LECA6 O E339743 Multi-axis step motor controller JXC93 × —		JXCLF	0	0	E480340	
JXCEH O E480340 step motor (24 VDC) JXC9H O E480340 JXCPH O E480340 Servo motor (24 VDC) LECA6 O E339743 JXC73 O × — Multi-axis step motor controller JXC93 O × —		JXCM1	0	0	E480340	
JXCEH O E480340 (24 VDC) JXC9H O E480340 JXCPH O E480340 Servo motor (24 VDC) JXCPH O E480340 Servo motor (24 VDC) LECA6 O C E339743 JXC73 O × — Multi-axis step motor controller JXC93 O × —	High performance	JXC5H/6H	0	0	E480340	
JXC9H O E480340 JXCPH O E480340 Servo motor (24 VDC) LECA6 O E339743 JXC73 O × — Multi-axis step motor controller JXC93 O × —		JXCEH	0	0	E480340	
JXCPH O E480340 Servo motor (24 VDC) LECA6 O E339743 JXC73 O × — Multi-axis step motor controller JXC83 O × —		JXC9H	0	0	E480340	
(24 VDC) LECA6 O E339/43 Multi-axis step motor controller JXC73 O × — JXC93 O × — —	(24 VDC)	JXCPH	0	0	E480340	
Multi-axis step motor controller JXC83 O × — JXC93 O × —		LECA6	0	0	E339743	
controller JXC93 O × -		JXC73	0	×		
	Multi-axis step motor	JXC83	0	×	—	
	controller	JXC93	0	×	—	
		JXC92	0	×		

As of November 2021							
Compatible motor	Series	€ UK CA					
		Сн	Compliance	Certification No. (File No.)			
	LECSA	0	0	E466261			
	LECSB	0	×	—			
	LECSC	0	×	_			
	LECSS	0	×	_			
AO	LECSB-T	0	0	E466261			
AC servo motor	LECSC-T	0	0	E466261			
	LECSN-T	0	O*1	E466261			
	LECSS-T	0	0	E466261			
	LECYM	0	×				
	LECYU	0	×	_			

*1 Only the "Without network card" option is UL compliant.

Actuators	"O": Compliant	"×": N	ot con	npliant			As	of Nov	ember 202
Compatible motor	Series	€ UK			Compatible motor	Series	C E		
	LEFS			Certification No. (File No.)	Lligh norformonoo			Compliance	Certification No. (File N
	11-LEFS		×		High performance step motor	LEFS	0	×	
	25A-LEFS	$\overline{}$	×		(24 VDC)	LEFS		^	
	LEFB	1 ŏ	×		(24 000)		-		
	LEL	$\overline{}$	×			LEFS	0	×	
	LEM	$\overline{0}$	×			11-LEFS	0	×	
	LEY	$\overline{0}$	×			25A-LEFS	0	×	
	25A-LEY	$\overline{}$	×			LEFB	0	×	
	LEY-X5/X7	$\overline{}$	×		Servo motor	LEY	0	×	
Step motor	LEYG	$\overline{0}$	×		(24 VDC)	LEY-X5/X7	0	×	
(Incremental)	LETG		×			LEYG	0	×	
, , , , , , , , , , , , , , , , , , ,	LESH		-			LES	0	×	
	LESH		×			LESH	0	×	
	LEPT		×			LEPY	0	×	
	LEPS		×			LEPS	0	×	
	LEHZ		×			LEFS	0	×	_
	LEHZ		×			11-LEFS	Ŏ	×	_
	LEHF	$\overline{}$	×			25A-LEFS	Ŏ	×	_
	LEHS	$\left \begin{array}{c} 0 \\ 0 \end{array} \right $	×			LEFB	Ŏ	×	_
		-	×			LEJS	ŏ	×	_
	LEFS	0	×	—		11-LEJS	Ō	×	_
	LEFB	0	×	—	AC servo motor	25A-LEJS	Ō	×	_
	LEKFS	0	×	—		LEJB	Ō	×	_
_	LEY	0	×	—		LEY25/32/63	ŏ	×	_
Step motor	LEY-X8	0	×	—		LEY100	ŏ	×	_
(Battery-less	LEYG	0	×			LEYG	ŏ	×	_
absolute)	LES	0	×			LESYH	Ő	×	_
	LESH	0	×	_					1
	LESYH	0	×	_					
	LER	0	×	—					
	LEHF	0	×	_	* Actuators ordered a	s single units are	e not U	ll com	nliant

Actuators (<u> </u>				· ·	. 14	<u> </u>				ember 202
			JXC	51/61		JXC	E1		JXC	C91		JXC	CP1	JXCD1		
Compatible motor	Series	C€ UK CA		c AL us	C E		RL [®] us	C €		c AL us	C €		c AL us	C €		c FLL 'us
	. ==0			Certification No. (File No.)		Compliance	Certification No. (File No.)		Compliance				Certification No. (File No.)			Certification No. (File N
	LEFS	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743
	11-LEFS	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743
	25A-LEFS	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743
	LEFB LEL		0	E339743	0	0	E339743	0	00	E339743	0	0	E339743	0	0	E339743
	LEL	0	0	E339743 E339743	0	0	E339743	0	00	E339743		0	E339743 E339743	0	0	E339743
		$\left \begin{array}{c} 0 \\ 0 \end{array} \right $	0	E339743 E339743	0	0	E339743 E339743	0	0	E339743 E339743	0	0	E339743 E339743	0	0	E339743 E339743
	25A-LEY	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743
	LEY-X5/X7	0	×	L339743	0	×	L339743	0	×	L339743	0	×	L339743	0	×	L339740
Step motor	LEYG	1 ŏ	Ô	E339743	0	Ô	E339743	0	ô	E339743	0	Ô	E339743	0	ô	E339743
(Incremental)	LES	1 ŏ	0	E339743	ŏ	0	E339743	0	0	E339743	<u> </u>	ŏ	E339743	ŏ	0	E339743
	LESH	ŏ	ŏ	E339743	Õ	Õ	E339743	0	Õ	E339743	ŏ	Õ	E339743	Õ	Õ	E339743
	LEPY	Ŏ	ŏ	E339743	Õ	Õ	E339743	0	0	E339743	Õ	Õ	E339743	0	0	E339743
	LEPS	ŏ	ŏ	E339743	Ŏ	Õ	E339743	ŏ	Õ	E339743	ŏ	Õ	E339743	Õ	Õ	E339743
	LER	Ŏ	Ŏ	E339743	Õ	Õ	E339743	Õ	Õ	E339743	Õ	Õ	E339743	Õ	Õ	E339743
	LEHZ	Ō	Ō	E339743	Õ	Õ	E339743	Õ	Õ	E339743	Õ	Õ	E339743	Õ	Õ	E339743
	LEHZJ	Ō	Ō	E339743	Ō	Õ	E339743	Õ	Õ	E339743	Õ	Õ	E339743	Õ	Õ	E339743
	LEHF	Ō	Ō	E339743	Ō	Ō	E339743	Ō	0	E339743	Ō	Ō	E339743	0	Ō	E339743
	LEHS	0	Õ	E339743	0	0	E339743	Ō	0	E339743	0	0	E339743	0	0	E339743
			Ō	E339743	0		E339743				0) LEC		0	-	E339743
Compatible motor		े (€	JXC	E339743	()	JXC	E339743	े ((JXC		(€	LEC		CE	LEC	
Compatible motor	LEHS		JX(E339743 CL1	((JXC	E339743	0	JXC	CM1		LEC	CP1	(€ ⊔ĸ	LEO	CP2 c RL us
Compatible motor	LEHS	े (€	JX(E339743 CL1 c ¶us	()	JXC	E339743	े ((JXC	CM1 c SL °us	(€	LEC	CP1 c PL [°] us	CE	LEO	CP2
Compatible motor	LEHS Series	O C E UK CA	JXC	E339743 CL1 c SL [°] us Certification No. (File No.)	C E	JXC	E339743) C E	JXC Compliance	c FLL° us Certification No. (File No.)	C€ UK CA	LEC Compliance	CP1 c 9 us Certification No. (File No.) E 339743 E 339743	C €	LEC Compliance	CP2
Compatible motor	LEHS Series LEFS	○ C € <u>UK</u> ○	JX (E339743 CL1 c Curification No. (File No.) E339743	С Є ЦК О	JXC Compliance	E339743 CLF Certification No. (File No.) E339743 E339743 E339743	○ ८ € ८ € ८ € ८ €	JXC Compliance	CM1 c Sus Certification No. (File No.) E339743 E339743 E339743	(€ ₽¥	LEC Compliance	CP1 c AL°us Certification No. (File No.) E339743	C E UK ×	LEC Compliance ×	CP2 c AL us Certification No. (File I
Compatible motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB	○ C € <u>UK</u> ○ ○	Compliance	E339743 CL1 c Nus Certification No. (File No.) E339743 E339743	С Є УК О	JXC Compliance	E339743 CLF Certification No. (File No.) E339743 E339743	○ Č € Č € ○ ○	JXC Compliance	CM1 c Sus Certification No. (File No.) E 339743 E 339743	 € UKA ○ ○ 	LEC Compliance	CP1 c 9 us Certification No. (File No.) E 339743 E 339743	C E UKA ×	LEC Compliance ×	CP2 c AL us Certification No. (File 1
Compatible motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL	0 C € UKA 0 0 0 0 0 0	Compliance	E339743 CL1 cRUus Certification No. (File Ma) E339743 E339743 E339743 E339743	 C € UKA O O O O O 	Compliance	E339743 CLF Certicaton No. (Fie No.) E339743 E339743 E339743 E339743 E339743	○ C C C C C C C C	Compliance	Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743	C € UKA 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743	C € UKA × × × × ×	Compliance × × × × ×	CP2 c Sus Certification No. (File 1
Compatible motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEM	0 (())))))))))))))))))	Compliance	E339743 CL1 cR1us E339743 E339743 E339743 E339743 E339743 E339743 E339743	C € UKA O O O O O O O O O O	Compliance	E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743	○ C U U U U U U U U	Compliance	Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743	C € UKA ○ ○ ○ ○		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743	C € UK × × × × ×	Compliance × × × ×	CP2 c Sus Certification No. (File 1
Compatible motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEM LEM LEY	0 (())))))))))))))))))	Compliance	E339743 CL1 c X us Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743	 C € UKA O O<td>Compliance</td><td>E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td>○ C € </td><td></td><td>Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td>C € JKA O O O O O O O O O</td><td></td><td>Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td>C € UKA × × × × ×</td><td>Compliance × × × × ×</td><td>CP2 c Sus Certification No. (File 1 </td>	Compliance	E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743	○ C € 		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	C € JKA O O O O O O O O O		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	C € UKA × × × × ×	Compliance × × × × ×	CP2 c Sus Certification No. (File 1
Compatible motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEM LEY 25A-LEY	0 C C C C C C C C C C C C C C C C C C C	Compliance	E339743 CL1 cR1us E339743 E339743 E339743 E339743 E339743 E339743 E339743	 C € UKA O O<td>Compliance</td><td>E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td>○ C € S € ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○</td><td></td><td>Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td>C E <u> <u> </u> </u></td><td></td><td>Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td>C E SEA × × × × × × × × × × × × × × × × × × ×</td><td>Compliance × × × × × × ×</td><td>CP2 c S us Certification No. (File 1 </td>	Compliance	E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	○ C € S € ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743	C E <u> <u> </u> </u>		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743	C E SEA × × × × × × × × × × × × × × × × × × ×	Compliance × × × × × × ×	CP2 c S us Certification No. (File 1
	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEM LEY 25A-LEY LEY-X5/X7	0 C C C C C C C C C C C C C C C C C C C	Compliance	E339743 CL1 cRUus Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	 C € UKA O O<td></td><td>E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td>○ C C C C C C C C</td><td>Compliance</td><td>CM1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td>C € SEA O</td><td></td><td>CP1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td></td><td>Compliance × × × × × × × ×</td><td>CP2 Certification No. (File N </td>		E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	○ C C C C C C C C	Compliance	CM1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	C € SEA O		CP1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		Compliance × × × × × × × ×	CP2 Certification No. (File N
Step motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEM LEY 25A-LEY LEY-X5/X7 LEYG	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Compliance	E339743 CL1 c X us Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JXC Compliance O	E339743 Certification Na. (File Na.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	○ C C C C C C C C		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	 C € S € O <l< td=""><td></td><td>CP1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td></td><td>Compliance × × × × × × × × × ×</td><td>CP2 c S us Certification No. (File N </td></l<>		CP1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		Compliance × × × × × × × × × ×	CP2 c S us Certification No. (File N
	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEM LEY 25A-LEY 25A-LEY LEY-X5/X7 LEYG LES	0 C C C C C C C C C C C C C C C C C C C	Compliance	E339743 CL1 c Nus Certitization No. (File Mo) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	00000000000000000000000000000000000000		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	 C € S € O <l< td=""><td></td><td>CP1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743</td><td></td><td>Compliance × × × × × × × × × × × × ×</td><td>CP2 c Continuation No. (File N </td></l<>		CP1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		Compliance × × × × × × × × × × × × ×	CP2 c Continuation No. (File N
Step motor	LEHS Series LEFS 11-LEFS LEFB LEL LEM LEY 25A-LEY LEY-X5/X7 LEYG LES LESH	0 C C KA 0 0 0 0 0 0 0 0 0 0 0 0 0		E339743 CL1 c X us Certitization No. (File Ma) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	C € JKA O		E339743 CLF Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	C C SKA 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		Compliance	CP2 c Continuation No. (File N
Step motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEM LEY 25A-LEY LEY-X5/X7 LEYG LES LESH LEPY	0 C C KA 0 0 0 0 0 0 0 0 0 0 0 0 0	Compliance	E339743 CL1 c Nus Certification No. File No. E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	C C C C C C C C C C C C C C C C C C C		E339743 Carticaton No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743			Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743			Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		Compliance × × × × × × × × × × × × ×	CP2 c Certification No. (File N
Step motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEW LEY 25A-LEY LEY-X5/X7 LEYG LESH LESH LEPY LEPS	0 C C C C C C C C C C C C C C C C C C C	Compliance O	E339743 CL1 c Nus Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743			E339743 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743			CP1 Certification No. (File No.) E3339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		LEC Compliance × × × × × × × × × × × × × × × × × × ×	CP2 Certification No. (File No.
Step motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEY 25A-LEY LEY-X5/X7 LEYG LES LESH LEPY LEPS LER			E339743 CL1 c Nus Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743			E339743 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743			CP1 Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		Compliance x x x x x x x x x x x x x x x x x x x	Certification No. (File No
Step motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEY 25A-LEY LEY-X5/X7 LEYG LES LESH LESH LEPY LEPS LER LER LEHZ			E339743 CL1 c Nus Certitation No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743			E339743 Certification No. (File No.) E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743 E349743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		LEC Compliance × × × × × × × × × × × × × × × × × × ×	CP2 Certification No. (File No.
Step motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEM LEY 25A-LEY LEY SA-LEY LEY LEY LES LES LES LEPS LER LER LEHZ LEHZJ			E339743 CL1 c Nus Certitication No. (File No) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743			E339743 Certification No. (File No.) E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743 E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743 E3309743		LEC Compliance X X X X X X X X X X X X X X X X X X X	Certification No. (File N
Step motor	LEHS Series LEFS 11-LEFS 25A-LEFS LEFB LEL LEY 25A-LEY LEY-X5/X7 LEYG LES LESH LESH LEPY LEPS LER LER LEHZ			E339743 CL1 c Nus Certitation No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743			E339743 Certification No. (File No.) E339743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743 E349743	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Certification No. (File No.) E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743 E339743		LEC Compliance × × × × × × × × × × × × × × × × × × ×	Certification No. (File N

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Actuators (When ord	ered with a con	troller)	"O": Complia	ant "×": I
		IVC51/61	17	CE1	

	-						
			LEC	CPA			
Compatible motor	Series	(€ UK	c AL us				
		CA	Compliance	Certification No. (File No.)			
	LEFS	0	0	E339743			
	11-LEFS	0	0	E339743			
	25A-LEFS	0	0	E339743			
	LEFB	0	0	E339743			
	LEL	0	0	E339743			
	LEM	0	0	E339743			
	LEY	0	0	E339743			
	25A-LEY	0	0	E339743			
Step motor	LEY-X5/X7	0	×	_			
•	LEYG	0	0	E339743			
(Incremental)	LES	0	0	E339743			
	LESH	0	0	E339743			
	LEPY	0	0	E339743			
	LEPS	0	0	E339743			
	LER	0	0	E339743			
	LEHZ	0	0	E339743			
	LEHZJ	0	0	E339743			
	LEHF	0	0	E339743			
	LEHS	0	Ó	E339743			

CE/UKCA/UL-compliance List

Actuators	(When ord	lere	d wi	th a con	trol	ler)	"O": Compli	ant "×	": Not	compliant "	—": N	ot app	licable	As	of Nov	ember 202 ⁻
			JXC	51/61		JX	CE1		JXC	291		JXC	CP1		JXC	CD1
Compatible motor	Series	C€ UK CA		c FRL ° us Certification No. (File No.)	C€ UK		c FRL °us Certification No. (File No.)	C €		c FNL° us Certification No. (File No.)	CE UK CA		c FRL °us Certification No. (File No.)	C E		c FLL° us Certification No. (File No
	LEFS	0	×		0	×		0	×		0	×		0	×	_
	LEFB	0	×		0	×	—	0	×	—	0	×	_	0	×	_
	LEKFS	0	×	—	0	×	—	0	×	—	0	×	—	0	×	—
	LEY	0	×	—	0	×	—	0	×	_	0	×	—	0	×	—
Step motor	LEY-X8	0	×	_	0	×	—	0	×		0	×	_	0	×	_
(Battery-less	LEYG	0	×	—	0	×	—	0	×	_	0	×	_	0	×	
absolute)	LES	0	×		0	×	—	0	×		0	×		0	×	
	LESH	0	×		0	×	—	0	×	_	0	×	_	0	×	_
	LESYH	0	×		0	×	—	0	×		0	×		0	×	
	LER	0	×		0	×	—	0	×		0	×		0	×	
	LEHF	0	×		0	×	—	0	×	_	0	×		0	×	
			JX	CL1		JX	CLF		JXC	CM1]					
Compatible motor	Series	C€ UK CA		c FNL° us Certification No. (File No.)	C€ UK		c FNI ° us Certification No. (File No.)	€ UKA		c FNI[®]us Certification No. (File No.)	-					
	LEFS	0	×		0	×		0	X							
	LEFB	Ŏ	×	_	Ŏ	×	_	Õ	×	_	1					
	LEKFS	0	×	_	Ō	×	_	Ō	×	_	1					
	LEY	0	×	_	0	×	_	0	×		1					
Step motor	LEY-X8	0	×	_	0	×	_	0	×		1					
(Battery-less	LEYG	0	×	_	0	×	_	0	×	—	1					
absolute)	LES	0	×	_	0	×	—	0	×	_]					
					0	×	_	0	×	_						
,	LESH	0	×	_												
,	LESYH	0	× ×		Õ	×	—	0	×	-]					
						-		00	× ×							

atuatara (Whan ardarad with a controllar)

Actuators (When ordered with a controller) "O": Compliant "x": Not compliant "—": Not applicable As of November 2021														
			JXC5	H/6H		JXC	EH		JXC	C9H	JXCPH			
Compatible motor	Series	CE UK CA		c FNL° us Certification No. (File No.)	C E		c FNL° us Certification No. (File No.)	C E KA		c FLL us Certification No. (File No.)	C E		c FNN us Certification No. (File No.)	
High performance step motor (24 VDC)	LEF	0	0	E339743	0	0	E339743	0	0	E339743	0	0	E339743	

			JXC5	5H/6H		JXC	ЕH		JXC	C9H	JXCPH			
Compatible motor	Series	CE UK CA		c FNI° us Certification No. (File No.)	CE UK CA		c FN ° us Certification No. (File No.)	C C		c FNI° us Certification No. (File No.)	CE UK CA		c SLL'us Certification No. (File No.)	
High performance (Battery-less absolute)	LEF	0	×	_	0	×		0	×	_	0	×	_	

			LEC	CA6
Compatible motor	Series	С Є ЦК		c 911 us
		CA	Compliance	Certification No. (File No.)
	LEFS	0	0	E339743
	11-LEFS	0	0	E339743
	25A-LEFS	0	0	E339743
Servo motor	LEFB	0	0	E339743
	LEY	0	0	E339743
(24 VDC)	LEY-X7	0	×	_
	LEYG	0	0	E339743
	LES	0	0	E339743
	LESH	0	0	E339743

			LEC	SA*1		LEC	CSB		LEC	CSC		LEC	CSS	LECSB-T*1		
Compatible motor	Series	С € UK		c AL [°] us	С € UK		c AL °us	С € UK		c AL us	С € UK		c AL us	() UK		c 911 °us
		CA	Compliance	Certification No. (File No.)	CA	Compliance	Certification No. (File No.)	ĊA	Compliance	Certification No. (File No.)	CA	Compliance	Certification No. (File No.)	CA	Compliance	Certification No. (File No.)
	LEFS	0	0	E339743	0	×	—	0	×	—	0	×	_	0	×	—
	11-LEFS	0	0	E339743	0	×	—	0	×	—	0	×	—	0	×	—
	25A-LEFS	0	0	E339743	0	×	—	0	×	—	0	×	_	0	×	—
	LEFB	0	0	E339743	0	×	—	0	×	—	0	×	_	0	×	_
	LEJS	0	0	E339743	0	×	—	0	×	—	0	×	_	0	×	_
	11-LEJS	0	0	E339743	0	×	—	0	×	—	0	×	—	0	×	—
AC servo motor	25A-LEJS	0	0	E339743	0	×	—	0	×	—	0	×	—	0	×	—
	LEJB	0	0	E339743	0	×	—	0	×	—	0	×	_	0	×	_
	LEY25/32/63	0	0	E339743	0	×	—	0	×	—	0	×	_	0	×	_
	LEY100		_	—	—	_	—	_		—	_	_	_	0	×	_
	LEYG	0	0	E339743	0	×	_	0	×	_	0	×	_	0	×	
	LESYH	0	×	_	—	—	_	—	—	—	—	—	_	0	×	—
		LECSC-T*1 LECS					N-T *1		LECS	S-T*1						

			LECS	C-1**		LECS	IN- I ** *	LEC33-1**			
Compatible motor	Series	CE UK CA		c FNI' us Certification No. (File No.)			c FNS us Certification No. (File No.)	€ UK CA		c FNI° us Certification No. (File No.)	
			Compliance	Cerunication No. (File No.)		Compliance	Cerulication No. (File No.)		Compliance	· · · · · · · · · · · · · · · · · · ·	
	LEFS	0	×	—	0	×	-	0	0	E339743	
	11-LEFS	0	×	—	0	×	_	0	0	E339743	
	25A-LEFS	0	×	_	0	×		0	0	E339743	
	LEFB	0	×	—	0	×	_	0	0	E339743	
	LEJS	0	×	—	0	×	_	0	0	E339743	
AC servo motor	11-LEJS	0	×	_	0	×		0	0	E339743	
AC Servo motor	25A-LEJS	0	×	_	0	×		0	0	E339743	
	LEJB	0	×	_	0	×		0	0	E339743	
	LEY25/32/63	0	×	—	0	×	_	0	0	E339743	
	LEY100	0	×		0	×	_	0	×		
	LEYG	0	×	_	0	×		0	0	E339743	
	LESYH	0	×	_	0	×	_	0	×	_	

 $\ast 1~$ There is a "UL Listed" mark on the AC servo motor driver body.

▲ Safety Instructions

These safety instructions are intended to prevent hazardous situations and/or equipment damage. These instructions indicate the level of potential hazard with the labels of "**Caution**," "**Warning**" or "**Danger**." They are all important notes for safety and must be followed in addition to International Standards (ISO/IEC)*1), and other safety regulations.

- Caution: indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.
- Warning: Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

AWarning

1. The compatibility of the product is the responsibility of the person who designs the equipment or decides its specifications.

Since the product specified here is used under various operating conditions, its compatibility with specific equipment must be decided by the person who designs the equipment or decides its specifications based on necessary analysis and test results. The expected performance and safety assurance of the equipment will be the responsibility of the person who has determined its compatibility with the product. This person should also continuously review all specifications of the product referring to its latest catalog information, with a view to giving due consideration to any possibility of equipment failure when configuring the equipment.

- 2. Only personnel with appropriate training should operate machinery and equipment.
 - The product specified here may become unsafe if handled incorrectly. The assembly, operation and maintenance of machines or equipment including our products must be performed by an operator who is appropriately trained and experienced.
- 3. Do not service or attempt to remove product and machinery/ equipment until safety is confirmed.
 - 1. The inspection and maintenance of machinery/equipment should only be performed after measures to prevent falling or runaway of the driven objects have been confirmed.
 - 2. When the product is to be removed, confirm that the safety measures as mentioned above are implemented and the power from any appropriate source is cut, and read and understand the specific product precautions of all relevant products carefully.
 - Before machinery/equipment is restarted, take measures to prevent unexpected operation and malfunction.

4. Contact SMC beforehand and take special consideration of safety measures if the product is to be used in any of the following conditions.

- 1. Conditions and environments outside of the given specifications, or use outdoors or in a place exposed to direct sunlight.
- 2. Installation on equipment in conjunction with atomic energy, railways, air navigation, space, shipping, vehicles, military, medical treatment, combustion and recreation, or equipment in contact with food and beverages, emergency stop circuits, clutch and brake circuits in press applications, safety equipment or other applications unsuitable for the standard specifications described in the product catalog.
- An application which could have negative effects on people, property, or animals requiring special safety analysis.
- 4. Use in an interlock circuit, which requires the provision of double interlock for possible failure by using a mechanical protective function, and periodical checks to confirm proper operation.

- *1) ISO 4414: Pneumatic fluid power General rules relating to systems.
 - ISO 4413: Hydraulic fluid power General rules relating to systems. IEC 60204-1: Safety of machinery – Electrical equipment of machines. (Part 1: General requirements)
 - ISO 10218-1: Manipulating industrial robots Safety. etc.

 The product is provided for use in manufacturing industries. The product herein described is basically provided for peaceful use in manufacturing industries. If considering using the product in other industries, consult SMC beforehand

and exchange specifications or a contract if necessary. If anything is unclear, contact your nearest sales branch.

Limited warranty and Disclaimer/ Compliance Requirements

The product used is subject to the following "Limited warranty and Disclaimer" and "Compliance Requirements".

Read and accept them before using the product.

Limited warranty and Disclaimer

- The warranty period of the product is 1 year in service or 1.5 years after the product is delivered, whichever is first.*2) Also, the product may have specified durability, running distance or replacement parts. Please consult your nearest sales branch.
- 2. For any failure or damage reported within the warranty period which is clearly our responsibility, a replacement product or necessary parts will be provided. This limited warranty applies only to our product independently, and not to any other damage incurred due to the failure of the product.
- Prior to using SMC products, please read and understand the warranty terms and disclaimers noted in the specified catalog for the particular products.
 - *2) Vacuum pads are excluded from this 1 year warranty. A vacuum pad is a consumable part, so it is warranted for a year after it is delivered. Also, even within the warranty period, the wear of a product due to the use of the vacuum pad or failure due to the deterioration of rubber material are not covered by the limited warranty.

Compliance Requirements

- 1. The use of SMC products with production equipment for the manufacture of weapons of mass destruction (WMD) or any other weapon is strictly prohibited.
- 2. The exports of SMC products or technology from one country to another are governed by the relevant security laws and regulations of the countries involved in the transaction. Prior to the shipment of a SMC product to another country, assure that all local rules governing that export are known and followed.

SMC products are not intended for use as instruments for legal metrology.

Measurement instruments that SMC manufactures or sells have not been qualified by type approval tests relevant to the metrology (measurement) laws of each country. Therefore, SMC products cannot be used for business or certification ordained by the metrology (measurement) laws of each country.

A Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.

SMC Corporation

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