



Operation Manual

PRODUCT NAME

Electric Slide Table / Battery-less Absolute Encoder Type

MODEL / Series / Product Number

LES(H)25E Series

R/L Type

- Standard
/LES R/L Series



D Type

- Standard
/LES D Series



<Controller>
JXC□1 Series

#This manual describes the dedicated terms for “LES(H)25E series”.

Refer to the manual of LES series about other details..

#Refer to the manual relevant to the controller being used for full operating instructions.

SMC Corporation

Contents

- Safety Instructions 2**
- 1. Specifications 4**
- 2. How to Order 5**
- 3. Specific product precautions 5**



LES(H)25E Series /Electric Slide Table 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.

*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: Manipulating industrial robots -Safety.
etc.



Caution

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

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

Warning

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.

3. 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.

3. 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.



LES(H)25E Series /Electric Slide Table Safety Instructions

Caution

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

1. 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.

3. 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 regulation 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.

Caution

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.

1. Specifications

Model		LES25E		LESH25E		
Actuator specification	Stroke[mm]	30,50,75,100,125,150		50 , 100 , 150		
	Work load[kg]	Horizontal	5		12	8
		Vertical	5	2.5	4	2
	Pushing force[N] 30 to 70%	77 to 180	43 to 100	77 to 180	43 to 100	
	Speed [mm/s]	10 to 200	20 to 400	10 to 150	20 to 400	
	Pushing speed [mm/s]	10 to 20	20	10 to 20	20	
	Max.acceleration/deceleration [mm/s ²]	5,000				
	Positioning repeatability [mm]	±0.05				
	Lost motion [mm]	0.3 or less		0.15 or less		
	Screw lead [mm]	8	16	8	16	
	Impact/vibration resistance [m/s ²]	50/20				
	Actuation type	Slide screw + Belt(R/L type)				
	Guide type	Slide screw(D type)				
	Guide type	Linear guide(No circulation)				
Operating temperature range [°C]	5 to 40					
Operating humidity range [%RH]	90 or less (No condensation)					
Electric specification	Motor size	□42				
	Motor type	Step motor (Servo/24VDC)				
	Encoder(Angular displacement sensor)	Battery-less absolute (4096 pulse/rotation)				
	Rated voltage [V]	24 VDC+/-10%				
	Power consumption [W]	45		67		
	Standby power consumption when	13		13		
Max.instantaneous power consumption [w]	67		74			
Lock unit specification	Type	Non-magnetizing lock				
	Holding force [N]	500	77	500	77	
	Power consumption [W]	5				
	Rated voltage [V]	24 VDC±10%				

Note

1) Please refer to the catalogue for the detail.

2. How to Order

LES * 25 R E J - 50 * * * - * * C * 1 * *

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

(1) Table type

Nil	Compact Type
H	High Rigidity Type

(2) Motor mounting

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

(3) Motor type

E	Step motor with Battery-less Absolute Encoder (Servo/ 24 VDC)
---	---

(4) Lead[mm]

J	16
K	8

(5) Stroke[mm]

	Model	
	LES25	LESH25
30	○	
50	●	●
75	●	
100	●	●
125	●	
150	●	●

○: With lock / Onry "D" type

(6) Motor option

Nil	Without lock
B	With lock

(7) Body option

Nil	Without option
S	Dustproof specification

(8) Mounting

Nil	Without side holder
H	With side holder(4 pcs.)

(9) Actuator cable type/length

Nil	Without cable	
R1	Robotic cable (Flexible cable)	1.5m
R3		3m
R5		5m
R8		8m *1
RA		10m *1
RB		15m *1
RC		20m *1

*1 Produced upon receipt of order.

(10) Controller/Driver type

Refer to the catalogue for Controller/Driver.

⚠ Caution

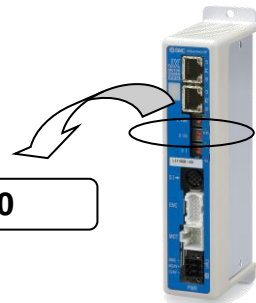
The actuator and controller are sold as a package.

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.

*1
LES25REJ-50



3. Specific product precautions

⚠ Caution

About precautions for installation of actuator, refer to [Specific precautions for Battery-less absolute encoder] that is described in the manual of used controller.

Revision history

SMC Corporation

4-14-1, Sotokanda, Chiyoda-ku, Tokyo 101-0021 JAPAN

Tel: + 81 3 5207 8249 Fax: +81 3 5298 5362

URL <https://www.smcworld.com>

Note: Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.

© 2019 SMC Corporation All Rights Reserved