

Single Axis Actuator LX26

With Motor, Standard Type / Cover Type



Linear Actuators

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Oriental Stepper Motor Specification

Components
Actuator, Amplifier, Driver, Cable
Accessories: Instruction manual for driver

Actuator

	Base	Block
Material	Carbon Steel	SCM Material
Surface Treatment	Low Temperature Black Chrome Plating	
Hardness	Induction Hardened 58-64 HRC	58-62 HRC

Specification of Driver **P.556-568**
Cable Specifications **P.559**

RoHS10

LXM2602
LXM2605

Cover Type

Standard Type

*1: Dowel Holes for Base Positioning
*2: Motor Cable will be attached to left side when position for sensor and rail is selected as "left".
*3: Limit sensor is adjusted to the positions that correspond to effective stroke $St/2 \pm 0.2$.
*4: Lead 5 has a return tube.
*5: Motor in the figure is for an example. For dimensions lineup, see Control Functions and Motor Dimensions Table.

For hole dimension details, P.530. Avoid interference with Sensor Flag.

Standard Specifications

Part Number	Lead (mm)	Ball Screw Diameter (mm)	Positioning Repeatability (mm)	Positioning (mm)	Parallelism (mm)	Backlash (mm)	Allowable Static Moment (N · m)		
							Ma	Mb	Mc
LXM2602C	2	Ø8 (Ground)	±0.003	0.02	0.01	0.003	70	70	225
LXM2605C	5								
LXM2602	2	Ø8 (Ground)	±0.003	0.02	0.01	0.003	70	70	225
LXM2605	5								

*For description of allowable static moment, P.520.

Control Functions

Manufacturer	Motor						Driver Type			Motor Driver Set Part Number
	Selection	Motor	Manufacturer Part Number	Output / Type	Brake (Note 1)	Mass (kg)	Selection	Power Supply	Manufacturer Part Number	
Oriental Motors	T1E	Stepping	ARM26SAK	α-Step	None	0.22	D1E	Single-Phase AC100V	ARD-K	AR26SAK
	T2E		ARM46AC		Included	0.47	D2E		ARD-A	AR46AA
	T2BE		ARM46MC		None	0.62	D2E		ARD-A	AR46MA
	T4E	5-Phase	PKE545AC	None	0.38	D4E	RKSD503-A	RKS545AA		
	T4BE		PKE545MC-A1	Included	0.52	D6E	RKSD503M-A	—		

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Load Capacity / Max. Velocity Correlation Table

Part Number	Manufacturer	Motor	Load Capacity (kg)		Maximum Speed (mm/sec)	
			Horizontal	Vertical	Horizontal	Vertical
LXM2602 LXM2602C	Oriental Motors	T1	20	5	—	45
		T2(B)E			90	90
		T4(B)E			55	45
LXM2605 LXM2605C	Oriental Motors	T1E	18	5	—	100
		T2(B)E			175	175
		T4(B)E			105	80

*Load capacity and max. speed are reference values and may vary depending on operating conditions.

*Horizontal load capacity is for motor without brake and vertical load is for motor with brake.

*Distance for Acceleration / Deceleration: 25 mm

Cable Configuration List

Cables come with terminal plug that directly connects to motor amplifier and driver.

Manufacturer Name	Motor Type	Motor Power Cable	Brake Cable	Encoder Cable
Oriental Motors	T1E	1 pc. CC030VA2R2	—	—
	T2E	1 pc. CC030VAR	—	—
	T2BE	1 pc. CC030VARB (Cable Set for Motor With Electromagnetic Brake)	—	—
	T4E	1 pc. CC030VPF	—	—
	T4BE	1 pc. CC030VPFB (Cable Set for Motor With Electromagnetic Brake)	—	—

Motor Dimensions Table

Manufacturer Name	Motor Type	Width B (mm)	Width C (mm)	Length D (mm)	Height E (mm)	Bottom Height F (mm)
Oriental Motors	T1E	14	14	70	30	-2
	T2E	21	21	74.5	37	-5
	T2BE	21	21	104.1	37	-5
	T4E	21	21	52.5	37	-5
	T4BE	21	21	81.5	37	-5

* E, F Value in () is for Sensor & Rail Position "Left".

Dimension / Actuator Body Weight

Part Number	Item	Base Length L (mm)			
		150	200	250	300
LXM2602 LXM2605 LXM2602C LXM2605C	Effective Stroke (St)	60	110	160	210
	A	35	20	45	30
	P	80	80	80	80
	Number of Pitches	1	2	2	3
	Number of Holes N	4	6	6	8
Standard Type	Body Mass (kg)	1.08	1.30	1.51	1.73

* Mass shown includes actuator, coupling, sensor rail, 3 sensors and sensor flag. For motor mass, see the control function table.

(Note 1) Choose motor with brake when unit is used in vertical position.

(Note 2) When ordering "Without Driver" Type, driver is not included.

(Note 3-1) When ordering "with cables" type, cables indicated in cable configuration list will be included with unit. Specifications, P.559.

(Note 3-2) To use cables with length other than 3 m, choose "without cable" type and order cable separately from the selection on P.559.

(Note 4-1) Sensor rail comes with the unit even when no. of sensor is specified as "none"; sensor flag will not be included.

(Note 4-2) Terminals for sensor cables is not provided.

(Note 4-3) The sensor provided with LXM series actuators went through a model change. FPM24 was discontinued and replaced by the next-generation FPM25 in April 2017.

Part Number	Selection					
	Motor	Driver Type	Cable (Note 3)	Number of Sensors (Note 4)	Sensor & Rail Location	Base Length L (mm)
LXM2602 LXM2605 LXM2602C LXM2605C	Select from control function table	Select from control function table	Included (3 m): 3 None: N	2 Units: 2 3 Units: 3 None: N	Right: R Left: L	150-300 (50 Pitch)

Part Number Example: **LXM2602 - T1E - D1E - 3 - 3 - R - 300**