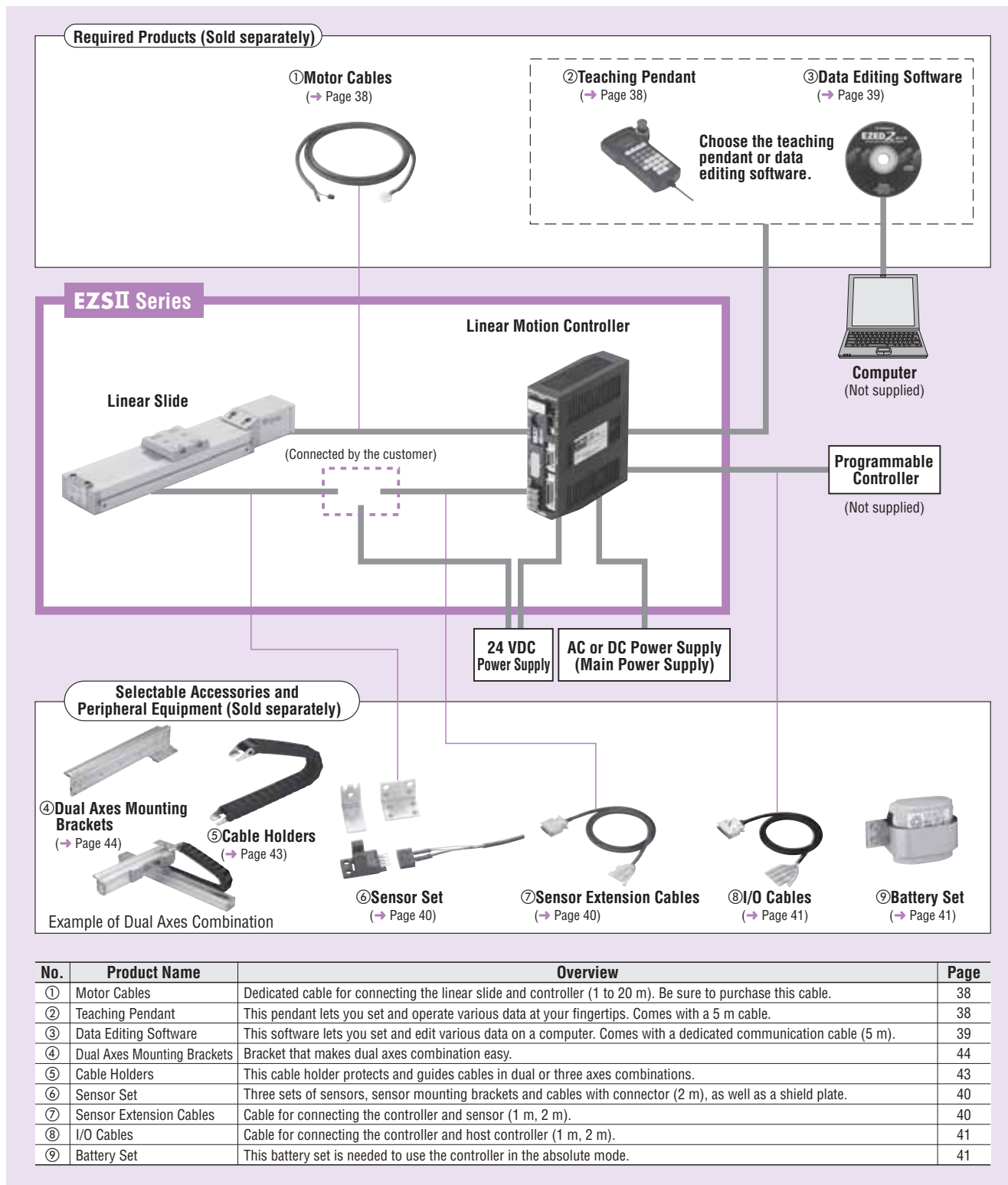


System Configuration

System Configuration

Controller Mode



Example of System Configuration

(Sold separately)

EZSII Series	Motor Cable (2 m)	Teaching Pendant	+	I/O Cable (1 m)	Sensor Extension Cable* (2 m)	Sensor Set*
EZS3E005-C	CC020ES-2	EZT1		CC36D1-1	CC20D2-1	PAES-S

(Sold separately)

*Not required if return to home operation is performed without sensors.

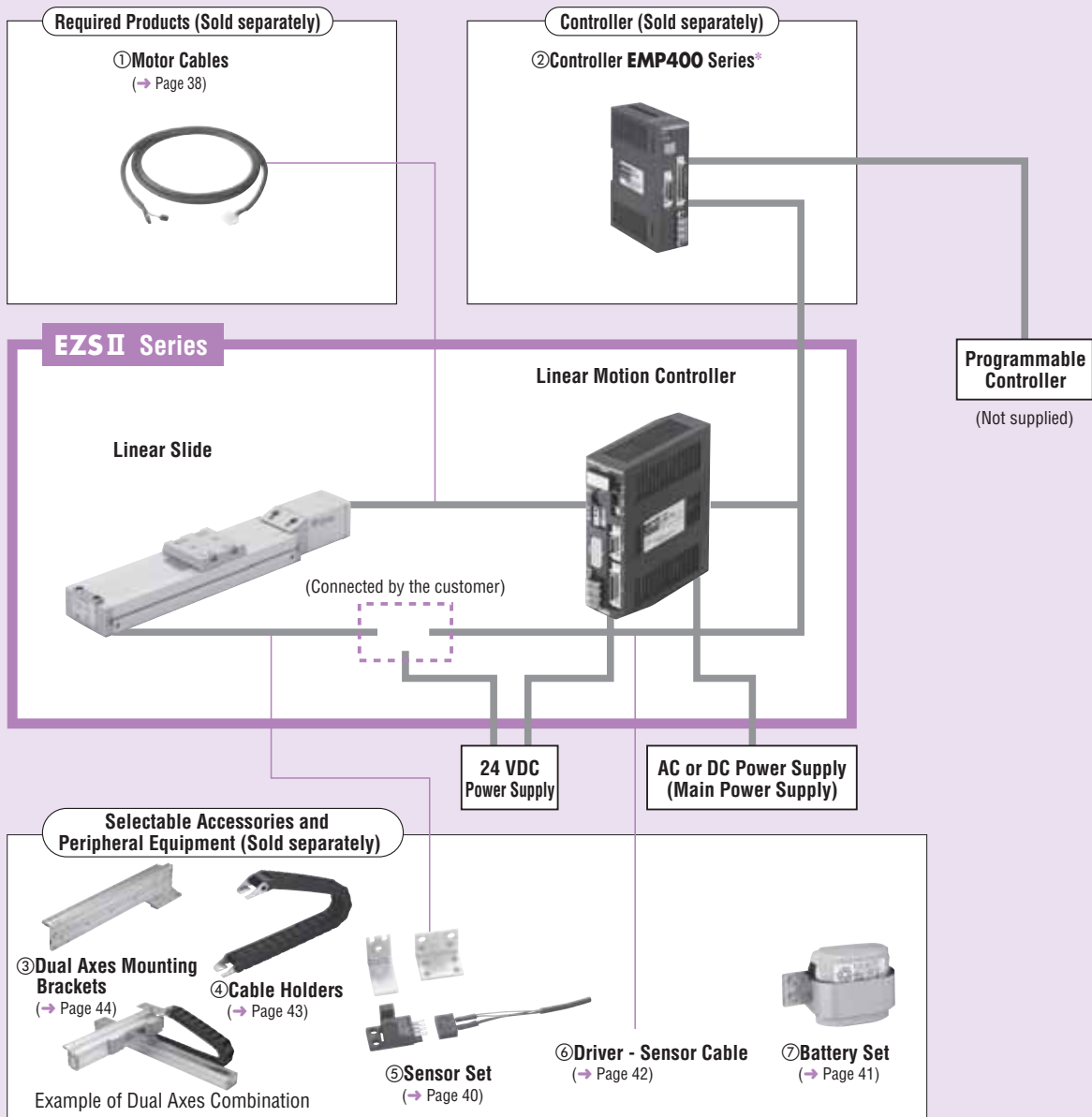
●The system configuration shown above is an example. Other combinations are available.

● Driver Mode

An example of a single-axis system configuration with the **EMP400** Series controller.

When performing return to home operation using the linear motion controller, refer to system configuration on page 10.

Teaching pendant or data editing software is required to change parameters (I/O logic, speed filter, etc.) of the linear motion controller.



No.	Product Name	Overview	Page
①	Motor Cables	Dedicated cable for connecting the linear slide and controller (1 to 20 m). Be sure to purchase this cable.	38
②	Controller	This controller gives commands needed to drive the linear slide.	*
③	Dual Axes Mounting Brackets	Bracket that makes dual axes combination easy.	44
④	Cable Holders	This cable holder protects and guides cables in dual or three axes combinations.	43
⑤	Sensor Set	Three sets of sensors, sensor mounting brackets and cables with connector (2 m), as well as a shield plate.	40
⑥	Driver - Sensor Cable	Cable for connecting the linear motion controller and EMP Series controller (0.5 m).	42
⑦	Battery Set	This battery set is needed to use the controller in the absolute mode.	41

*Please contact the nearest Oriental Motor sales office for details.

● Example of System Configuration

(Sold separately)

(Sold separately)

EZS II Series	Motor Cable (2 m)	+	Controller	Driver - Sensor Cable (0.5 m)	Sensor Set
EZS3E005-C	CC020ES-2		EMP401-1	CC005EZ6-EMPD	PAES-S

● The system configuration shown above is an example. Other combinations are available.

Product Line

Product Number Code

EZS 3 D 050 M - K

① ② ③ ④ ⑤ ⑥

①	Series	EZS: EZSII Series		
②	Linear Slide Size	3: Width: 54 mm Height: 50 mm		
		4: Width: 74 mm Height: 50 mm		
		6: Width: 74 mm Height: 66.5 mm		
③	Lead	D: 12 mm	E: 6 mm	
④	Stroke	005: 50 mm	010: 100 mm	015: 150 mm
		020: 200 mm	025: 250 mm	030: 300 mm
		035: 350 mm	040: 400 mm	045: 450 mm
		050: 500 mm	055: 550 mm	060: 600 mm
		065: 650 mm	070: 700 mm	075: 750 mm
		080: 800 mm	085: 850 mm	
⑤	Electromagnetic Brake	Blank: Without Electromagnetic Brake M: With Electromagnetic Brake		
⑥	Power Supply Voltage	K: 24 VDC A: Single-Phase 100-115 VAC C: Single-Phase 200-230 VAC		

Product Line

Available in 50 mm increments

● EZS3

◇ Without Electromagnetic Brake

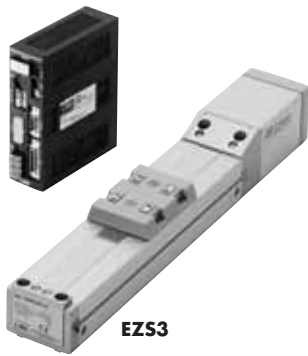
Stroke	24 VDC	Single-Phase 100-115 VAC	Single-Phase 200-230 VAC
	Model	Model	Model
50 mm	EZS3□005-K	EZS3□005-A	EZS3□005-C
100 mm	EZS3□010-K	EZS3□010-A	EZS3□010-C
150 mm	EZS3□015-K	EZS3□015-A	EZS3□015-C
200 mm	EZS3□020-K	EZS3□020-A	EZS3□020-C
250 mm	EZS3□025-K	EZS3□025-A	EZS3□025-C
300 mm	EZS3□030-K	EZS3□030-A	EZS3□030-C
350 mm	EZS3□035-K	EZS3□035-A	EZS3□035-C
400 mm	EZS3□040-K	EZS3□040-A	EZS3□040-C
450 mm	EZS3□045-K	EZS3□045-A	EZS3□045-C
500 mm	EZS3□050-K	EZS3□050-A	EZS3□050-C
550 mm	EZS3□055-K	EZS3□055-A	EZS3□055-C
600 mm	EZS3□060-K	EZS3□060-A	EZS3□060-C
650 mm	EZS3□065-K	EZS3□065-A	EZS3□065-C
700 mm	EZS3□070-K	EZS3□070-A	EZS3□070-C

● Enter the lead length **D** (12 mm) or **E** (6 mm) in the box (□) within the model name.

◇ With Electromagnetic Brake

Stroke	24 VDC	Single-Phase 100-115 VAC	Single-Phase 200-230 VAC
	Model	Model	Model
50 mm	EZS3□005M-K	EZS3□005M-A	EZS3□005M-C
100 mm	EZS3□010M-K	EZS3□010M-A	EZS3□010M-C
150 mm	EZS3□015M-K	EZS3□015M-A	EZS3□015M-C
200 mm	EZS3□020M-K	EZS3□020M-A	EZS3□020M-C
250 mm	EZS3□025M-K	EZS3□025M-A	EZS3□025M-C
300 mm	EZS3□030M-K	EZS3□030M-A	EZS3□030M-C
350 mm	EZS3□035M-K	EZS3□035M-A	EZS3□035M-C
400 mm	EZS3□040M-K	EZS3□040M-A	EZS3□040M-C
450 mm	EZS3□045M-K	EZS3□045M-A	EZS3□045M-C
500 mm	EZS3□050M-K	EZS3□050M-A	EZS3□050M-C
550 mm	EZS3□055M-K	EZS3□055M-A	EZS3□055M-C
600 mm	EZS3□060M-K	EZS3□060M-A	EZS3□060M-C
650 mm	EZS3□065M-K	EZS3□065M-A	EZS3□065M-C
700 mm	EZS3□070M-K	EZS3□070M-A	EZS3□070M-C

● Enter the lead length **D** (12 mm) or **E** (6 mm) in the box (□) within the model name.



EZS3



EZS4



EZS6

● **EZS4**

◇ Without Electromagnetic Brake

Stroke	24 VDC	Single-Phase 100-115 VAC	Single-Phase 200-230 VAC
	Model	Model	Model
50 mm	EZS4□005-K	EZS4□005-A	EZS4□005-C
100 mm	EZS4□010-K	EZS4□010-A	EZS4□010-C
150 mm	EZS4□015-K	EZS4□015-A	EZS4□015-C
200 mm	EZS4□020-K	EZS4□020-A	EZS4□020-C
250 mm	EZS4□025-K	EZS4□025-A	EZS4□025-C
300 mm	EZS4□030-K	EZS4□030-A	EZS4□030-C
350 mm	EZS4□035-K	EZS4□035-A	EZS4□035-C
400 mm	EZS4□040-K	EZS4□040-A	EZS4□040-C
450 mm	EZS4□045-K	EZS4□045-A	EZS4□045-C
500 mm	EZS4□050-K	EZS4□050-A	EZS4□050-C
550 mm	EZS4□055-K	EZS4□055-A	EZS4□055-C
600 mm	EZS4□060-K	EZS4□060-A	EZS4□060-C
650 mm	EZS4□065-K	EZS4□065-A	EZS4□065-C
700 mm	EZS4□070-K	EZS4□070-A	EZS4□070-C

● Enter the lead length **D** (12 mm) or **E** (6 mm) in the box (□) within the model name.

◇ With Electromagnetic Brake

Stroke	24 VDC	Single-Phase 100-115 VAC	Single-Phase 200-230 VAC
	Model	Model	Model
50 mm	EZS4□005M-K	EZS4□005M-A	EZS4□005M-C
100 mm	EZS4□010M-K	EZS4□010M-A	EZS4□010M-C
150 mm	EZS4□015M-K	EZS4□015M-A	EZS4□015M-C
200 mm	EZS4□020M-K	EZS4□020M-A	EZS4□020M-C
250 mm	EZS4□025M-K	EZS4□025M-A	EZS4□025M-C
300 mm	EZS4□030M-K	EZS4□030M-A	EZS4□030M-C
350 mm	EZS4□035M-K	EZS4□035M-A	EZS4□035M-C
400 mm	EZS4□040M-K	EZS4□040M-A	EZS4□040M-C
450 mm	EZS4□045M-K	EZS4□045M-A	EZS4□045M-C
500 mm	EZS4□050M-K	EZS4□050M-A	EZS4□050M-C
550 mm	EZS4□055M-K	EZS4□055M-A	EZS4□055M-C
600 mm	EZS4□060M-K	EZS4□060M-A	EZS4□060M-C
650 mm	EZS4□065M-K	EZS4□065M-A	EZS4□065M-C
700 mm	EZS4□070M-K	EZS4□070M-A	EZS4□070M-C

● Enter the lead length **D** (12 mm) or **E** (6 mm) in the box (□) within the model name.

● **EZS6**

◇ Without Electromagnetic Brake

Stroke	24 VDC	Single-Phase 100-115 VAC	Single-Phase 200-230 VAC
	Model	Model	Model
50 mm	EZS6□005-K	EZS6□005-A	EZS6□005-C
100 mm	EZS6□010-K	EZS6□010-A	EZS6□010-C
150 mm	EZS6□015-K	EZS6□015-A	EZS6□015-C
200 mm	EZS6□020-K	EZS6□020-A	EZS6□020-C
250 mm	EZS6□025-K	EZS6□025-A	EZS6□025-C
300 mm	EZS6□030-K	EZS6□030-A	EZS6□030-C
350 mm	EZS6□035-K	EZS6□035-A	EZS6□035-C
400 mm	EZS6□040-K	EZS6□040-A	EZS6□040-C
450 mm	EZS6□045-K	EZS6□045-A	EZS6□045-C
500 mm	EZS6□050-K	EZS6□050-A	EZS6□050-C
550 mm	EZS6□055-K	EZS6□055-A	EZS6□055-C
600 mm	EZS6□060-K	EZS6□060-A	EZS6□060-C
650 mm	EZS6□065-K	EZS6□065-A	EZS6□065-C
700 mm	EZS6□070-K	EZS6□070-A	EZS6□070-C
750 mm	EZS6□075-K	EZS6□075-A	EZS6□075-C
800 mm	EZS6□080-K	EZS6□080-A	EZS6□080-C
850 mm	EZS6□085-K	EZS6□085-A	EZS6□085-C

● Enter the lead length **D** (12 mm) or **E** (6 mm) in the box (□) within the model name.

◇ With Electromagnetic Brake

Stroke	24 VDC	Single-Phase 100-115 VAC	Single-Phase 200-230 VAC
	Model	Model	Model
50 mm	EZS6□005M-K	EZS6□005M-A	EZS6□005M-C
100 mm	EZS6□010M-K	EZS6□010M-A	EZS6□010M-C
150 mm	EZS6□015M-K	EZS6□015M-A	EZS6□015M-C
200 mm	EZS6□020M-K	EZS6□020M-A	EZS6□020M-C
250 mm	EZS6□025M-K	EZS6□025M-A	EZS6□025M-C
300 mm	EZS6□030M-K	EZS6□030M-A	EZS6□030M-C
350 mm	EZS6□035M-K	EZS6□035M-A	EZS6□035M-C
400 mm	EZS6□040M-K	EZS6□040M-A	EZS6□040M-C
450 mm	EZS6□045M-K	EZS6□045M-A	EZS6□045M-C
500 mm	EZS6□050M-K	EZS6□050M-A	EZS6□050M-C
550 mm	EZS6□055M-K	EZS6□055M-A	EZS6□055M-C
600 mm	EZS6□060M-K	EZS6□060M-A	EZS6□060M-C
650 mm	EZS6□065M-K	EZS6□065M-A	EZS6□065M-C
700 mm	EZS6□070M-K	EZS6□070M-A	EZS6□070M-C
750 mm	EZS6□075M-K	EZS6□075M-A	EZS6□075M-C
800 mm	EZS6□080M-K	EZS6□080M-A	EZS6□080M-C
850 mm	EZS6□085M-K	EZS6□085M-A	EZS6□085M-C

● Enter the lead length **D** (12 mm) or **E** (6 mm) in the box (□) within the model name.

The following items are included in each product.

Linear Slide, Hexagonal Socket Head Screws for mounting Linear Slide, Controller, Mounting Bracket for Controller, User I/O Connector, Sensor I/O Connector, Operating Manual

Specifications

General Specifications of Motor ● General specifications of controller → Page 29

This is the value after rated operation under normal ambient temperature and humidity.

● 24 VDC

Item	Specification
Insulation Resistance	100 MΩ or more when 500 VDC megger is applied between the following places: ·Motor case – Motor/Sensor windings ·Motor case – Windings of electromagnetic brake (Only for electromagnetic brake type)
Dielectric Strength	Sufficient to withstand the following for 1 minute: ·Motor case – Motor/Sensor windings 0.5 kVAC 50 Hz ·Motor case – Windings of electromagnetic brake (Only for electromagnetic brake type) 0.5 kVAC 50 Hz
Ambient Temperature	0~ +40°C (non-freezing)
Ambient Humidity	85% or less (non-condensing)

Note:

- Do not measure insulation resistance or perform the dielectric strength test while the linear slide and controller are connected.

Safety Standards and CE Marking

Power Supply Voltage	Product	CE Marking
24 VDC	Linear Slide	EMC Directives
	Controller	
Single-Phase 100-115 VAC Single-Phase 200-230 VAC	Linear Slide	Low Voltage Directives
	Controller	EMC Directives

- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the linear slide/controller incorporated in the user's equipment. If you require EMC data of linear slides or controllers, please contact the nearest Oriental Motor sales office.

● Machinery Directive (98/37/EC)

The linear slides, controllers and teaching pendants are designed and manufactured for use in general industrial equipment as an internal component, and therefore need not comply with the Machinery Directive. However, each product has been evaluated under the following standards to ensure proper operation:

EN ISO 12100-1, EN ISO 12100-2, EN 1050, EN 60204-1

◇ Emergency Stop Function

The emergency stop circuit in the teaching pendant or controller is designed in accordance with the requirements of Category 1 under EN 954-1.

Refer to page 32 for a connection example that conforms to Stop Category 0 (non-controlled stop) under EN 60204-1.

◇ Emergency Stop Circuit

The customer must provide an appropriate emergency stop circuit by conducting a risk assessment based on your system.

● Single-Phase 100-115 VAC/Single-Phase 200-230 VAC

Item	Specification
Insulation Resistance	100 MΩ or more when 500 VDC megger is applied between the following places: ·Motor case – Motor/Sensor windings ·Motor case – Windings of electromagnetic brake (Only for electromagnetic brake type)
Dielectric Strength	Sufficient to withstand the following for 1 minute: ·Motor case – Motor/Sensor windings EZS3, EZS4: 1.0 kVAC 50 Hz ·Motor case – Windings of electromagnetic brake (Only for electromagnetic brake type) EZS6: 1.5 kVAC 50 Hz 1.0 kVAC 50 Hz
Ambient Temperature	0~ +40°C (non-freezing)
Ambient Humidity	85% or less (non-condensing)

Note:

- Do not measure insulation resistance or perform the dielectric strength test while the linear slide and controller are connected.

EZSII Series Using an α STEP Motor

EZS3: 54 mm (W) × 50 mm (H) 24 VDC



Maximum Transportable Mass: Horizontal 15 kg/Vertical 7 kg

Stroke: 50 to 700 mm (in 50 mm increments)

Specifications of Linear Slide (RoHS)



Drive Method	Ball Screw	Repetitive Positioning Accuracy [mm]	± 0.02	Resolution [mm]	0.01	Traveling Parallelism [mm]	0.03*	Maximum Load Moment [N·m]	Mr: 4.2 Mv: 4.2 Mr: 10.5
Model	Lead [mm]	Transportable Mass [kg]		Thrust [N]	Electromagnetic Brake Holding Force [N]	Maximum Speed (Stroke) [mm/s]			
		Horizontal	Vertical			50~550 mm	560~600 mm	610~650 mm	660~700 mm
EZS3D □-K	12	~7.5	—	~43	—	600	550	460	400
EZS3D □M-K			~3.5		43				
EZS3E □-K	6	~15	—	~86	—	300	270	220	200
EZS3E □M-K			~7		86				

● Enter the stroke length in the box (□) within the model name.

* This applies when the linear slide is installed from the base surface.

Product Number Code

EZS 3 D 050 M - K

① ② ③ ④ ⑤ ⑥

①	Series EZS : EZSII Series
②	Linear Slide Size 3 : Width: 54 mm Height: 50 mm
③	Lead D : 12 mm E : 6 mm
④	Stroke 005 (50 mm) ~ 070 (700 mm)
⑤	Electromagnetic Brake Blank: Without Electromagnetic Brake M : With Electromagnetic Brake
⑥	Power Supply Voltage K : 24 VDC

Linear Slide/Controller Combinations

Model names for linear slide and controller combinations are shown below.

Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Not equipped	EZS3D □-K	EZSM3D□K	ESMC-K2
	EZS3E □-K	EZSM3E□K	
Equipped	EZS3D □M-K	EZSM3D□MK	
	EZS3E □M-K	EZSM3E□MK	

● Enter the stroke length in the box (□) within the model name.

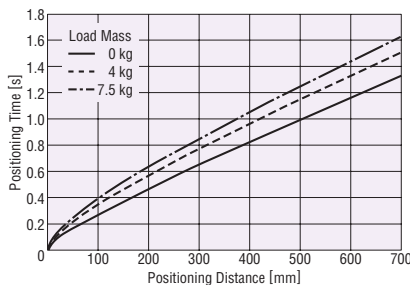
Positioning Distance – Positioning Time

Check the (approximate) positioning time from the positioning distance.

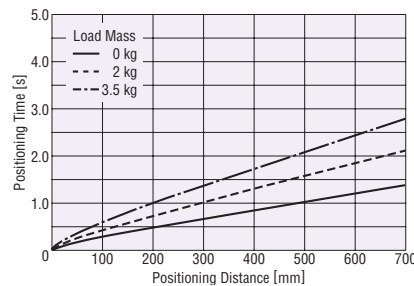
As a rough guideline, the positioning time by the linear slide corresponds to the positioning time calculated from the graph, multiplied by the positioning time coefficient corresponding to the applicable stroke.

● EZS3D (Lead: 12 mm)

◇ Horizontal Installation



◇ Vertical Installation

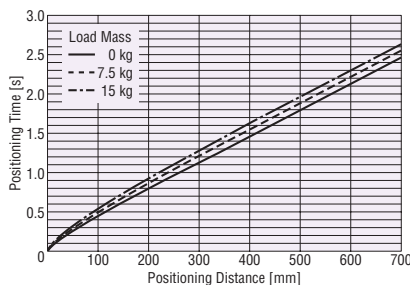


Positioning Time Coefficient

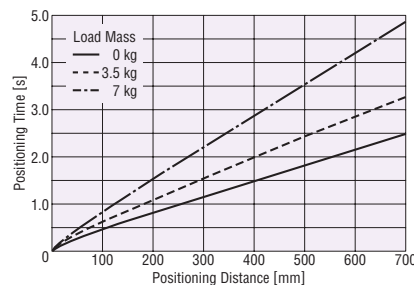
Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	4 kg	7.5 kg	0 kg	2 kg	3.5 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
560~600	1.0	1.0	1.0	1.0	1.0	1.0
610~650	1.2	1.1	1.1	1.2	1.0	1.0
660~700	1.4	1.2	1.2	1.3	1.0	1.0

● EZS3E (Lead: 6 mm)

◇ Horizontal Installation



◇ Vertical Installation



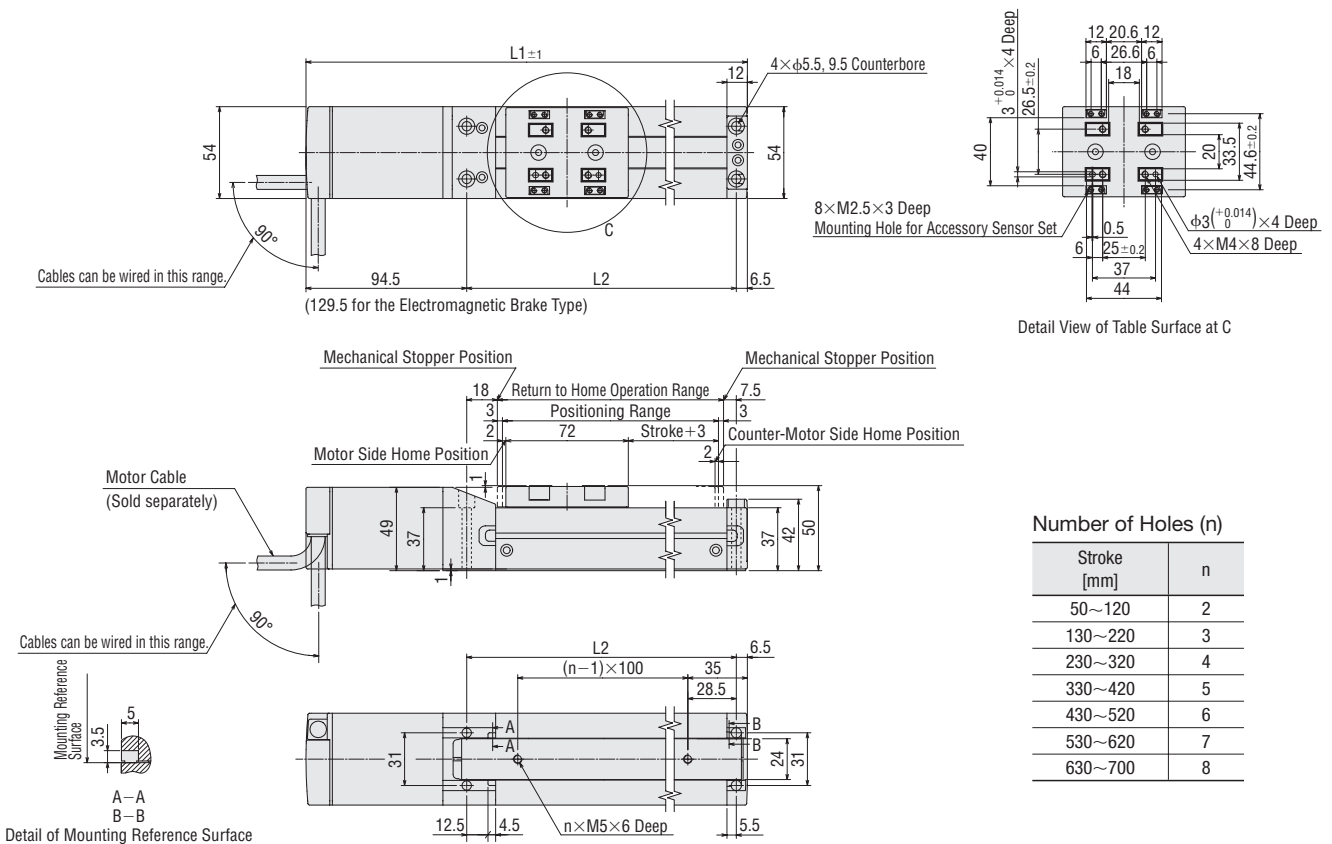
Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
560~600	1.1	1.1	1.1	1.1	1.0	1.0
610~650	1.3	1.3	1.2	1.3	1.0	1.0
660~700	1.4	1.4	1.4	1.4	1.1	1.0

Notes:

- The positioning time in the graph does not include the settling time. Use a settling time of 0.15 s as a reference (settling time is adjustable by speed filter function).
- The starting speed should be 6 mm/s or less.

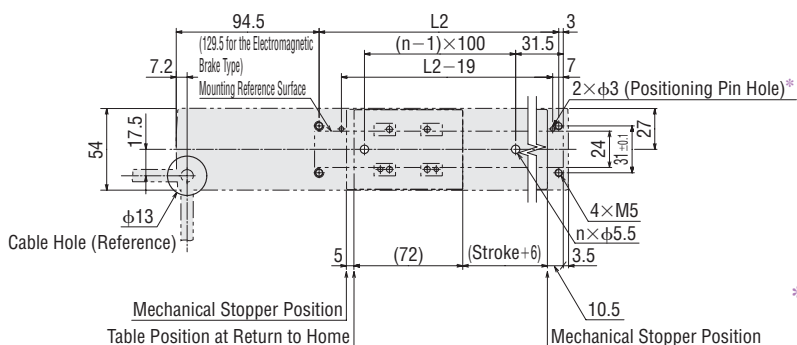
Dimensions of Linear Slide (Unit = mm)



Linear Slide Model: EZSM3D□K, EZSM3E□K (Without Electromagnetic Brake)
EZSM3D□MK, EZSM3E□MK (With Electromagnetic Brake)

	Electromagnetic Brake	Numbers Specifiable in the Box (□) within the Linear Slide Model Name													
		005	010	015	020	025	030	035	040	045	050	055	060	065	070
Stroke	Not Equipped/Equipped	50	100	150	200	250	300	350	400	450	500	550	600	650	700
L1	Not Equipped	259.5	309.5	359.5	409.5	459.5	509.5	559.5	609.5	659.5	709.5	759.5	809.5	859.5	909.5
	Equipped	294.5	344.5	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5	844.5	894.5	944.5
L2	Not Equipped/Equipped	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5
Mass [kg]	Not Equipped	1.4	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2	3.3
	Equipped	1.6	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5
CAD	Not Equipped	D548	D549	D550	D551	D552	D553	D554	D555	D556	D557	D558	D559	D560	D561
	Equipped	D562	D563	D564	D565	D566	D567	D568	D569	D570	D571	D572	D573	D574	D575

Dimensions for Linear Slide Installation (Unit = mm)



*The mounting reference surface can be set on either side.
The figure assumes that the linear slide is mounted on its top surface.

EZSII Series Using an α STEP Motor

EZS3: 54 mm (W) × 50 mm (H)

Single-Phase 100-115 VAC
Single-Phase 200-230 VAC



Maximum Transportable Mass: Horizontal 15 kg/Vertical 7 kg

Stroke: 50 to 700 mm (in 50 mm increments)

Specifications of Linear Slide (RoHS)



Drive Method	Ball Screw	Repetitive Positioning Accuracy [mm]	± 0.02	Resolution [mm]	0.01	Traveling Parallelism [mm]	0.03*	Maximum Load Moment [N·m]	Mp: 4.2 Mv: 4.2 Mr: 10.5	
Model	Lead [mm]	Transportable Mass [kg]		Thrust [N]	Electromagnetic Brake Holding Force [N]	Maximum Speed (Stroke) [mm/s]				
		Horizontal	Vertical			50~500 mm	510~550 mm	560~600 mm	610~650 mm	660~700 mm
EZS3D□-□	12	~7.5	—	~43	—	800	650	550	460	400
EZS3D□M-□			~3.5		43					
EZS3E□-□	6	~15	—	~86	—	400	320	270	220	200
EZS3E□M-□			~7		86					

- Enter the stroke length in the box (□) within the model name.
- Enter the power supply voltage **A** or **C** in the box (■) within the model name.
- * This applies when the linear slide is installed from the base surface.

Product Number Code

EZS 3 D 050 M - C

① ② ③ ④ ⑤ ⑥

①	Series EZS : EZSII Series
②	Linear Slide Size 3 : Width: 54 mm Height: 50 mm
③	Lead D : 12 mm E : 6 mm
④	Stroke 005 (50 mm) ~ 070 (700 mm)
⑤	Electromagnetic Brake Blank: Without Electromagnetic Brake M : With Electromagnetic Brake
⑥	Power Supply Voltage A : Single-Phase 100-115 VAC C : Single-Phase 200-230 VAC

Linear Slide/Controller Combinations

Model names for linear slide and controller combinations are shown below.

Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Not equipped	EZS3D□-A	EZSM3D□A	ESMC-A2
	EZS3D□-C	EZSM3D□C	ESMC-C2
	EZS3E□-A	EZSM3E□A	ESMC-A2
	EZS3E□-C	EZSM3E□C	ESMC-C2
Equipped	EZS3D□M-A	EZSM3D□MA	ESMC-A2
	EZS3D□M-C	EZSM3D□MC	ESMC-C2
	EZS3E□M-A	EZSM3E□MA	ESMC-A2
	EZS3E□M-C	EZSM3E□MC	ESMC-C2

- Enter the stroke length in the box (□) within the model name.

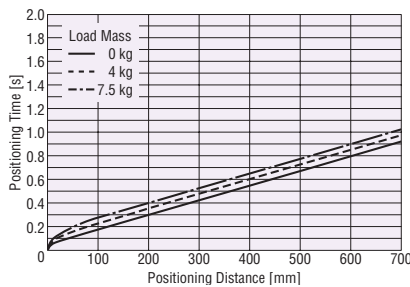
Positioning Distance – Positioning Time

Check the (approximate) positioning time from the positioning distance.

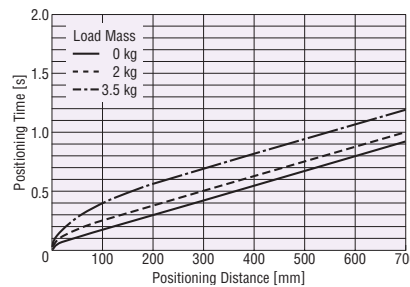
As a rough guideline, the positioning time by the linear slide corresponds to the positioning time calculated from the graph, multiplied by the positioning time coefficient corresponding to the applicable stroke.

● EZS3D (Lead: 12 mm)

◇ Horizontal Installation



◇ Vertical Installation

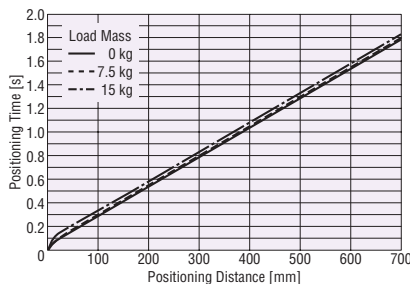


Positioning Time Coefficient

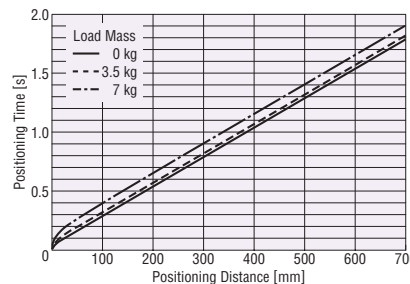
Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	4 kg	7.5 kg	0 kg	2 kg	3.5 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
510~550	1.2	1.2	1.2	1.2	1.2	1.1
560~600	1.4	1.4	1.3	1.4	1.3	1.2
610~650	1.7	1.6	1.6	1.7	1.6	1.4
660~700	1.9	1.8	1.8	1.9	1.8	1.6

● EZS3E (Lead: 6 mm)

◇ Horizontal Installation



◇ Vertical Installation



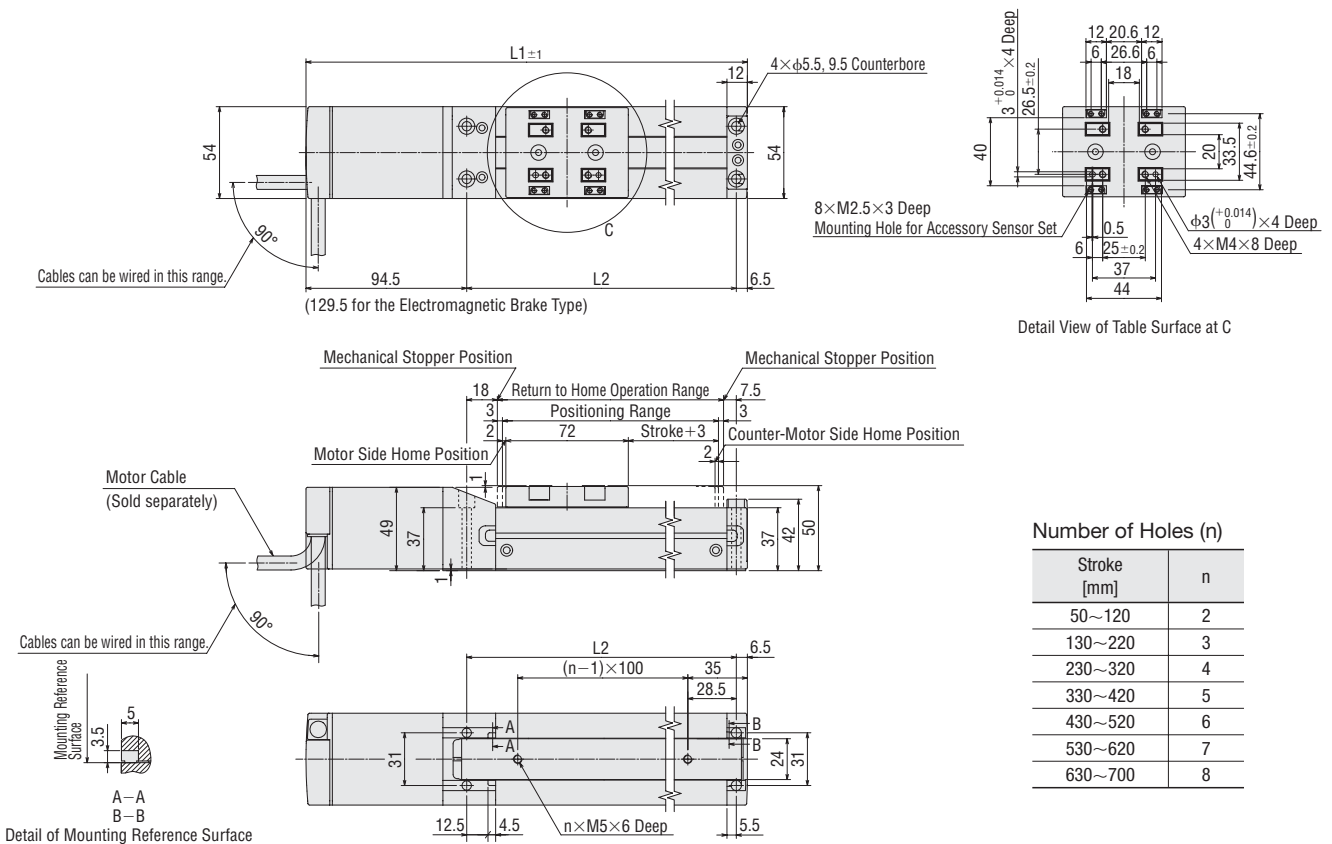
Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
510~550	1.2	1.2	1.2	1.2	1.2	1.2
560~600	1.5	1.4	1.4	1.5	1.4	1.4
610~650	1.8	1.8	1.8	1.8	1.8	1.7
660~700	2.0	1.9	1.9	2.0	1.9	1.9

Notes:

- The positioning time in the graph does not include the settling time. Use a settling time of 0.15 s as a reference (settling time is adjustable by speed filter function).
- The starting speed should be 6 mm/s or less.

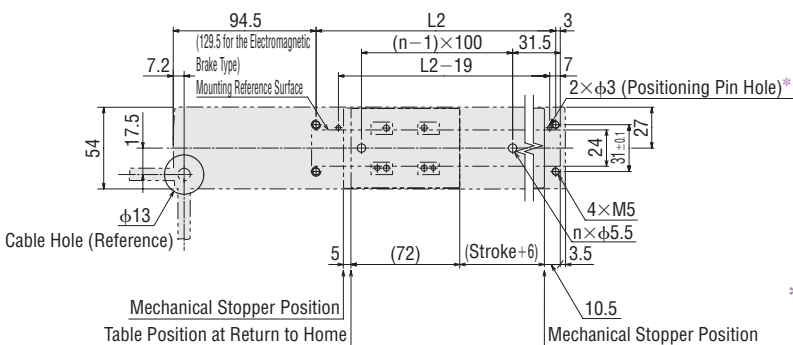
Dimensions of Linear Slide (Unit = mm)



Linear Slide Model: EZSM3D□A, EZSM3E□A, EZSM3D□C, EZSM3E□C (Without Electromagnetic Brake)
 EZSM3D□MA, EZSM3E□MA, EZSM3D□MC, EZSM3E□MC (With Electromagnetic Brake)

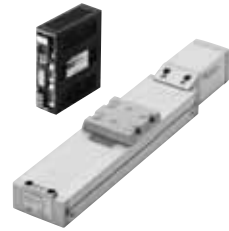
	Electromagnetic Brake	Numbers Specifiable in the Box (□) within the Linear Slide Model Name													
		005	010	015	020	025	030	035	040	045	050	055	060	065	070
Stroke	Not Equipped/Equipped	50	100	150	200	250	300	350	400	450	500	550	600	650	700
L1	Not Equipped	259.5	309.5	359.5	409.5	459.5	509.5	559.5	609.5	659.5	709.5	759.5	809.5	859.5	909.5
	Equipped	294.5	344.5	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5	844.5	894.5	944.5
L2	Not Equipped/Equipped	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5
Mass [kg]	Not Equipped	1.4	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2	3.3
	Equipped	1.6	1.7	1.9	2.0	2.2	2.3	2.5	2.6	2.8	2.9	3.1	3.2	3.4	3.5
CAD	Not Equipped	D548	D549	D550	D551	D552	D553	D554	D555	D556	D557	D558	D559	D560	D561
	Equipped	D562	D563	D564	D565	D566	D567	D568	D569	D570	D571	D572	D573	D574	D575

Dimensions for Linear Slide Installation (Unit = mm)



EZSII Series Using an α STEP Motor

EZS4: 74 mm (W) × 50 mm (H) 24 VDC



Maximum Transportable Mass: Horizontal 30 kg/Vertical 14 kg

Stroke: 50 to 700 mm (in 50 mm increments)

Specifications of Linear Slide (RoHS)



Drive Method	Ball Screw	Repetitive Positioning Accuracy [mm]	±0.02	Resolution [mm]	0.01	Traveling Parallelism [mm]	0.03*	Maximum Load Moment [N·m]	M _r : 8 M _v : 8 M _a : 27.8
Model	Lead [mm]	Transportable Mass [kg]		Thrust [N]	Electromagnetic Brake Holding Force [N]	Maximum Speed (Stroke) [mm/s]			
		Horizontal	Vertical			50~550 mm	560~600 mm	610~650 mm	660~700 mm
EZS4D □-K	12	~15	—	~70	—	600	550	460	400
EZS4D □M-K			~7		70				
EZS4E □-K	6	~30	—	~140	—	300	270	220	200
EZS4E □M-K			~14		140				

● Enter the stroke length in the box (□) within the model name.

* This applies when the linear slide is installed from the base surface.

Product Number Code

EZS 4 D 050 M - K

① ② ③ ④ ⑤ ⑥

①	Series EZS: EZSII Series
②	Linear Slide Size 4 : Width: 74 mm Height: 50 mm
③	Lead D : 12 mm E : 6 mm
④	Stroke 005 (50 mm) ~ 070 (700 mm)
⑤	Electromagnetic Brake Blank: Without Electromagnetic Brake M : With Electromagnetic Brake
⑥	Power Supply Voltage K : 24 VDC

Linear Slide/Controller Combinations

Model names for linear slide and controller combinations are shown below.

Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Not equipped	EZS4D □-K	EZSM4D□K	ESMC-K2
	EZS4E □-K	EZSM4E□K	
Equipped	EZS4D □M-K	EZSM4D□MK	
	EZS4E □M-K	EZSM4E□MK	

● Enter the stroke length in the box (□) within the model name.

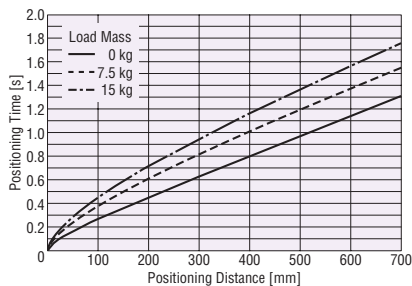
Positioning Distance – Positioning Time

Check the (approximate) positioning time from the positioning distance.

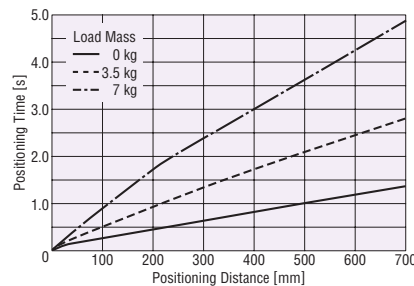
As a rough guideline, the positioning time by the linear slide corresponds to the positioning time calculated from the graph, multiplied by the positioning time coefficient corresponding to the applicable stroke.

● EZS4D (Lead: 12 mm)

◇ Horizontal Installation



◇ Vertical Installation

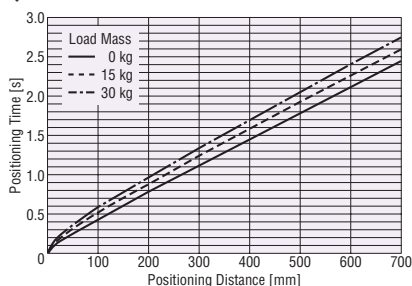


Positioning Time Coefficient

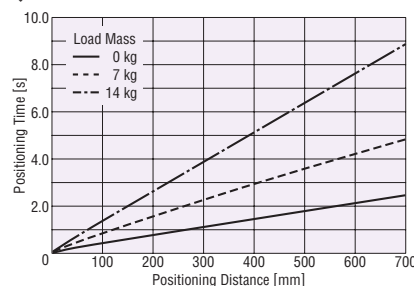
Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
560~600	1.0	1.0	1.0	1.0	1.0	1.0
610~650	1.2	1.1	1.0	1.2	1.0	1.0
660~700	1.4	1.1	1.1	1.3	1.0	1.0

● EZS4E (Lead: 6 mm)

◇ Horizontal Installation



◇ Vertical Installation



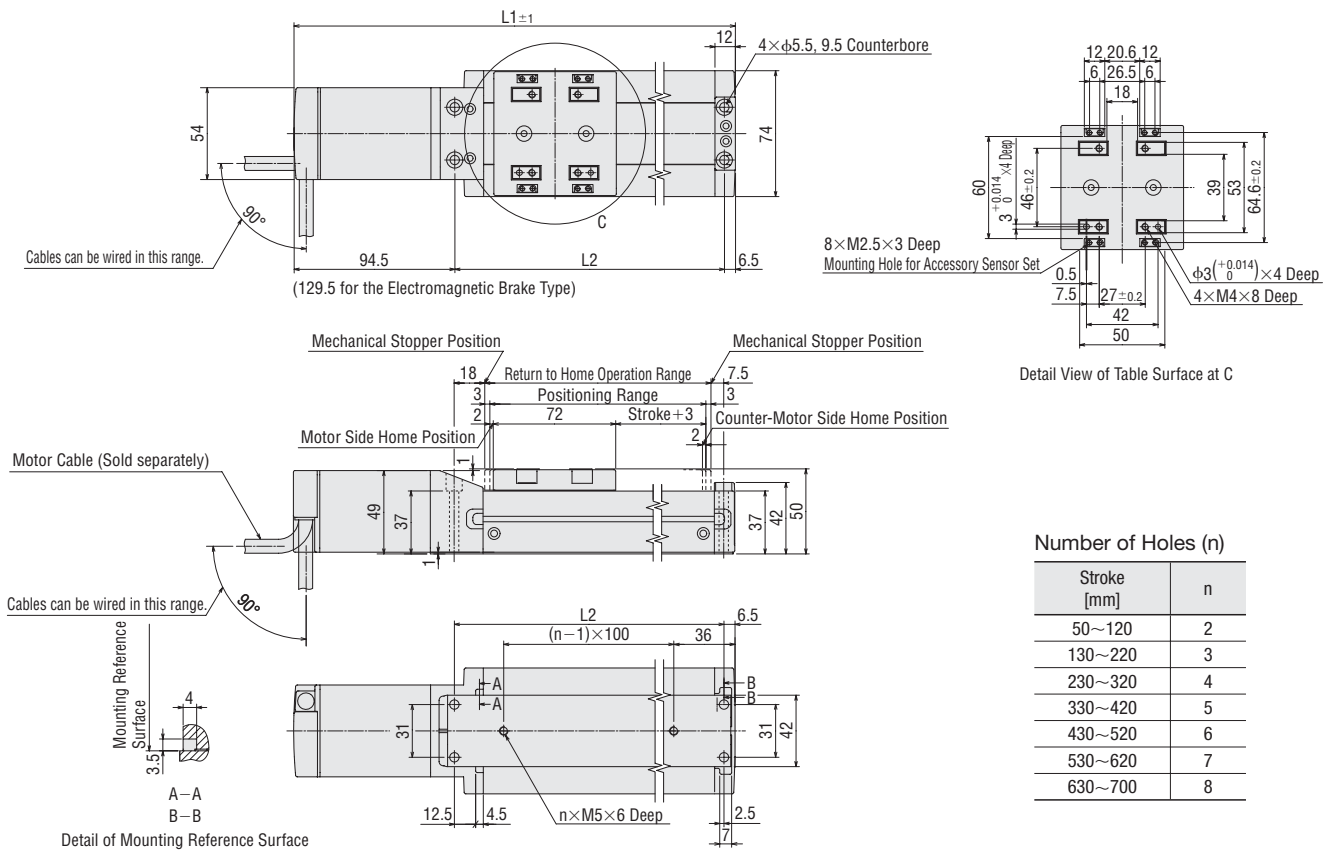
Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg
50~550	1.0	1.0	1.0	1.0	1.0	1.0
560~600	1.1	1.1	1.0	1.1	1.0	1.0
610~650	1.3	1.3	1.2	1.3	1.0	1.0
660~700	1.4	1.4	1.3	1.4	1.0	1.0

Notes:

- The positioning time in the graph does not include the settling time. Use a settling time of 0.15 s as a reference (settling time is adjustable by speed filter function).
- The starting speed should be 6 mm/s or less.

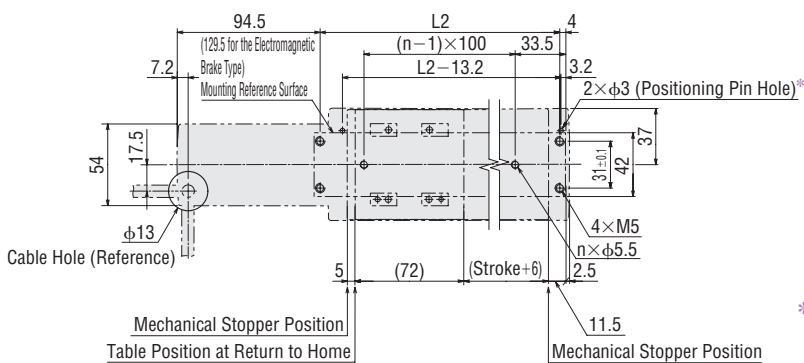
Dimensions of Linear Slide (Unit = mm)



Linear Slide Model: EZSM4D□K, EZSM4E□K (Without Electromagnetic Brake)
EZSM4D□MK, EZSM4E□MK (With Electromagnetic Brake)

	Electromagnetic Brake	Numbers Specifiable in the Box (□) within the Linear Slide Model Name													
		005	010	015	020	025	030	035	040	045	050	055	060	065	070
Stroke	Not Equipped/Equipped	50	100	150	200	250	300	350	400	450	500	550	600	650	700
L1	Not Equipped	259.5	309.5	359.5	409.5	459.5	509.5	559.5	609.5	659.5	709.5	759.5	809.5	859.5	909.5
	Equipped	294.5	344.5	394.5	444.5	494.5	544.5	594.5	644.5	694.5	744.5	794.5	844.5	894.5	944.5
L2	Not Equipped/Equipped	158.5	208.5	258.5	308.5	358.5	408.5	458.5	508.5	558.5	608.5	658.5	708.5	758.5	808.5
	Not Equipped/Equipped	1.8	2.1	2.3	2.5	2.7	3.0	3.2	3.4	3.7	3.9	4.1	4.3	4.6	4.8
Mass [kg]	Not Equipped	1.8	2.1	2.3	2.5	2.7	3.0	3.2	3.4	3.7	3.9	4.1	4.3	4.6	4.8
	Equipped	2.0	2.3	2.5	2.7	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.0
CAD	Not Equipped	D576	D577	D578	D579	D580	D581	D582	D583	D584	D585	D586	D587	D588	D589
	Equipped	D590	D591	D592	D593	D594	D595	D596	D597	D598	D599	D600	D601	D602	D603

Dimensions for Linear Slide Installation (Unit = mm)

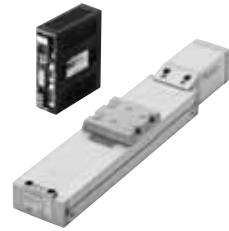


*The mounting reference surface can be set on either side.
The figure assumes that the linear slide is mounted on its top surface.

EZSII Series Using an α STEP Motor

EZS4: 74 mm (W) × 50 mm (H)

Single-Phase 100-115 VAC
Single-Phase 200-230 VAC



Maximum Transportable Mass: Horizontal 30 kg/Vertical 14 kg

Stroke: 50 to 700 mm (in 50 mm increments)

Specifications of Linear Slide (RoHS)



Drive Method	Ball Screw	Repetitive Positioning Accuracy [mm]	±0.02	Resolution [mm]	0.01	Traveling Parallelism [mm]	0.03*	Maximum Load Moment [N·m]	M _r : 8 M _y : 8 M _z : 27.8	
Model	Lead [mm]	Transportable Mass [kg]		Thrust [N]	Electromagnetic Brake Holding Force [N]	Maximum Speed (Stroke) [mm/s]				
		Horizontal	Vertical			50~500 mm	510~550 mm	560~600 mm	610~650 mm	660~700 mm
EZS4D□-□	12	~15	—	~70	—	800	650	550	460	400
EZS4D□M-□			~7		70					
EZS4E□-□	6	~30	—	~140	—	400	320	270	220	200
EZS4E□M-□			~14		140					

● Enter the stroke length in the box (□) within the model name.

Enter the power supply voltage **A** or **C** in the box (■) within the model name.

* This applies when the linear slide is installed from the base surface.

Product Number Code

EZS 4 D 050 M - C

① ② ③ ④ ⑤ ⑥

①	Series EZS : EZSII Series
②	Linear Slide Size 4 : Width: 74 mm Height: 50 mm
③	Lead D : 12 mm E : 6 mm
④	Stroke 005 (50 mm) ~ 070 (700 mm)
⑤	Electromagnetic Brake Blank: Without Electromagnetic Brake M : With Electromagnetic Brake
⑥	Power Supply Voltage A : Single-Phase 100-115 VAC C : Single-Phase 200-230 VAC

Linear Slide/Controller Combinations

Model names for linear slide and controller combinations are shown below.

Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Not equipped	EZS4D□- A	EZSM4D□A	ESMC-A2
	EZS4D□- C	EZSM4D□C	ESMC-C2
	EZS4E□- A	EZSM4E□A	ESMC-A2
	EZS4E□- C	EZSM4E□C	ESMC-C2
Equipped	EZS4D□M- A	EZSM4D□MA	ESMC-A2
	EZS4D□M- C	EZSM4D□MC	ESMC-C2
	EZS4E□M- A	EZSM4E□MA	ESMC-A2
	EZS4E□M- C	EZSM4E□MC	ESMC-C2

● Enter the stroke length in the box (□) within the model name.

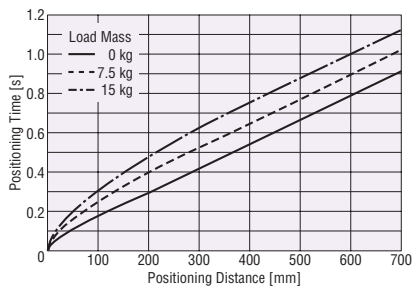
Positioning Distance – Positioning Time

Check the (approximate) positioning time from the positioning distance.

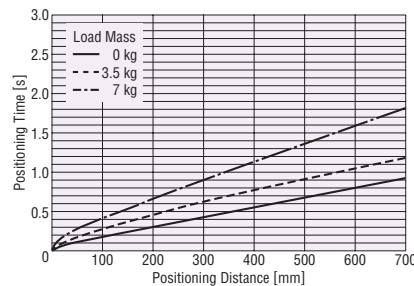
As a rough guideline, the positioning time by the linear slide corresponds to the positioning time calculated from the graph, multiplied by the positioning time coefficient corresponding to the applicable stroke.

● EZS4D (Lead: 12 mm)

◇ Horizontal Installation



◇ Vertical Installation

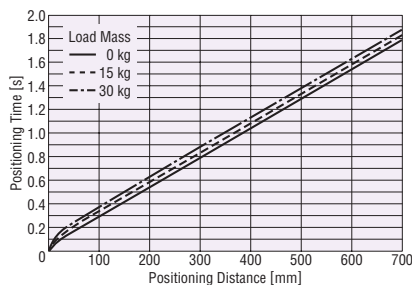


Positioning Time Coefficient

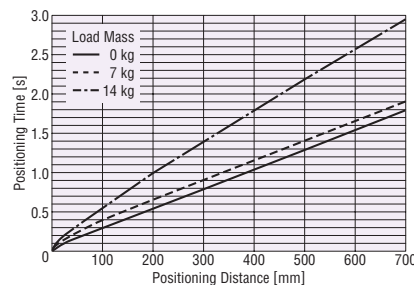
Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	7.5 kg	15 kg	0 kg	3.5 kg	7 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
510~550	1.2	1.1	1.1	1.2	1.0	1.0
560~600	1.4	1.3	1.2	1.4	1.1	1.0
610~650	1.7	1.5	1.4	1.7	1.3	1.0
660~700	1.9	1.8	1.6	1.9	1.5	1.0

● EZS4E (Lead: 6 mm)

◇ Horizontal Installation



◇ Vertical Installation



Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	15 kg	30 kg	0 kg	7 kg	14 kg
50~500	1.0	1.0	1.0	1.0	1.0	1.0
510~550	1.2	1.2	1.2	1.2	1.2	1.0
560~600	1.5	1.4	1.4	1.5	1.4	1.0
610~650	1.8	1.7	1.7	1.8	1.7	1.1
660~700	2.0	1.9	1.9	2.0	1.9	1.2

Notes:

● The positioning time in the graph does not include the settling time. Use a settling time of 0.15 s as a reference (settling time is adjustable by speed filter function).

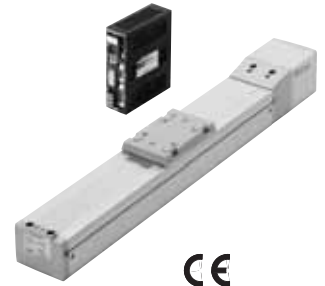
● The starting speed should be 6 mm/s or less.

EZSII Series Using an α STEP Motor

EZS6: 74 mm (W) × 66.5 mm (H) 24 VDC

Maximum Transportable Mass: Horizontal 60 kg/Vertical 30 kg

Stroke: 50 to 850 mm (in 50 mm increments)



Specifications of Linear Slide (RoHS)

Drive Method	Ball Screw	Repetitive Positioning Accuracy [mm]	± 0.02	Resolution [mm]	0.01	Traveling Parallelism [mm]	0.03*	Maximum Load Moment [N·m]	Mr: 45.7 My: 37.5 Ma: 55.6	
Model	Lead [mm]	Transportable Mass [kg]		Thrust [N]	Electromagnetic Brake Holding Force [N]	Maximum Speed (Stroke) [mm/s]				
		Horizontal	Vertical			50~650 mm	660~700 mm	710~750 mm	760~800 mm	810~850 mm
EZS6D □-K	12	~30	—	~184	—	600	550	470	420	360
EZS6D □M-K			~15		184					
EZS6E □-K	6	~60	—	~369	—	300	260	230	200	180
EZS6E □M-K			~30		369					

● Enter the stroke length in the box (□) within the model name.

* This applies when the linear slide is installed from the base surface.

Product Number Code

EZS 6 D 050 M - K

① ② ③ ④ ⑤ ⑥

①	Series EZS: EZSII Series
②	Linear Slide Size 6 : Width: 74 mm Height: 66.5 mm
③	Lead D : 12 mm E : 6 mm
④	Stroke 005 (50 mm) ~ 085 (850 mm)
⑤	Electromagnetic Brake Blank: Without Electromagnetic Brake M : With Electromagnetic Brake
⑥	Power Supply Voltage K : 24 VDC

Linear Slide/Controller Combinations

Model names for linear slide and controller combinations are shown below.

Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Not equipped	EZS6D □-K	EZSM6D□K	ESMC-K2
	EZS6E □-K	EZSM6E□K	
Equipped	EZS6D □M-K	EZSM6D□MK	
	EZS6E □M-K	EZSM6E□MK	

● Enter the stroke length in the box (□) within the model name.

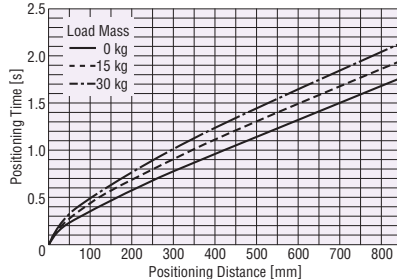
Positioning Distance – Positioning Time

Check the (approximate) positioning time from the positioning distance.

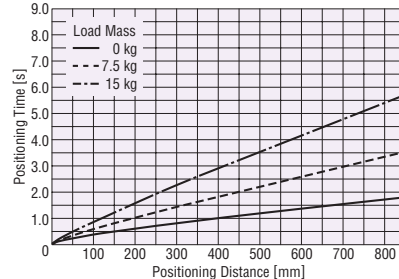
As a rough guideline, the positioning time by the linear slide corresponds to the positioning time calculated from the graph, multiplied by the positioning time coefficient corresponding to the applicable stroke.

● EZS6D (Lead: 12 mm)

◇ Horizontal Installation



◇ Vertical Installation

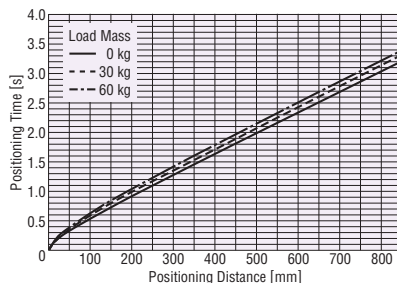


Positioning Time Coefficient

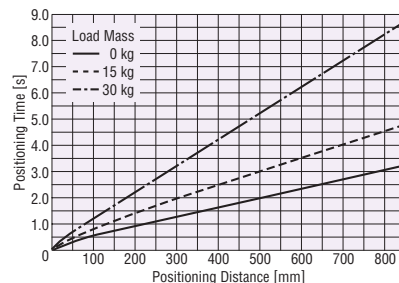
Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg
50~650	1.0	1.0	1.0	1.0	1.0	1.0
660~700	1.0	1.0	1.0	1.0	1.0	1.0
710~750	1.1	1.1	1.0	1.1	1.0	1.0
760~800	1.2	1.2	1.2	1.2	1.0	1.0
810~850	1.4	1.3	1.2	1.4	1.0	1.0

● EZS6E (Lead: 6 mm)

◇ Horizontal Installation



◇ Vertical Installation



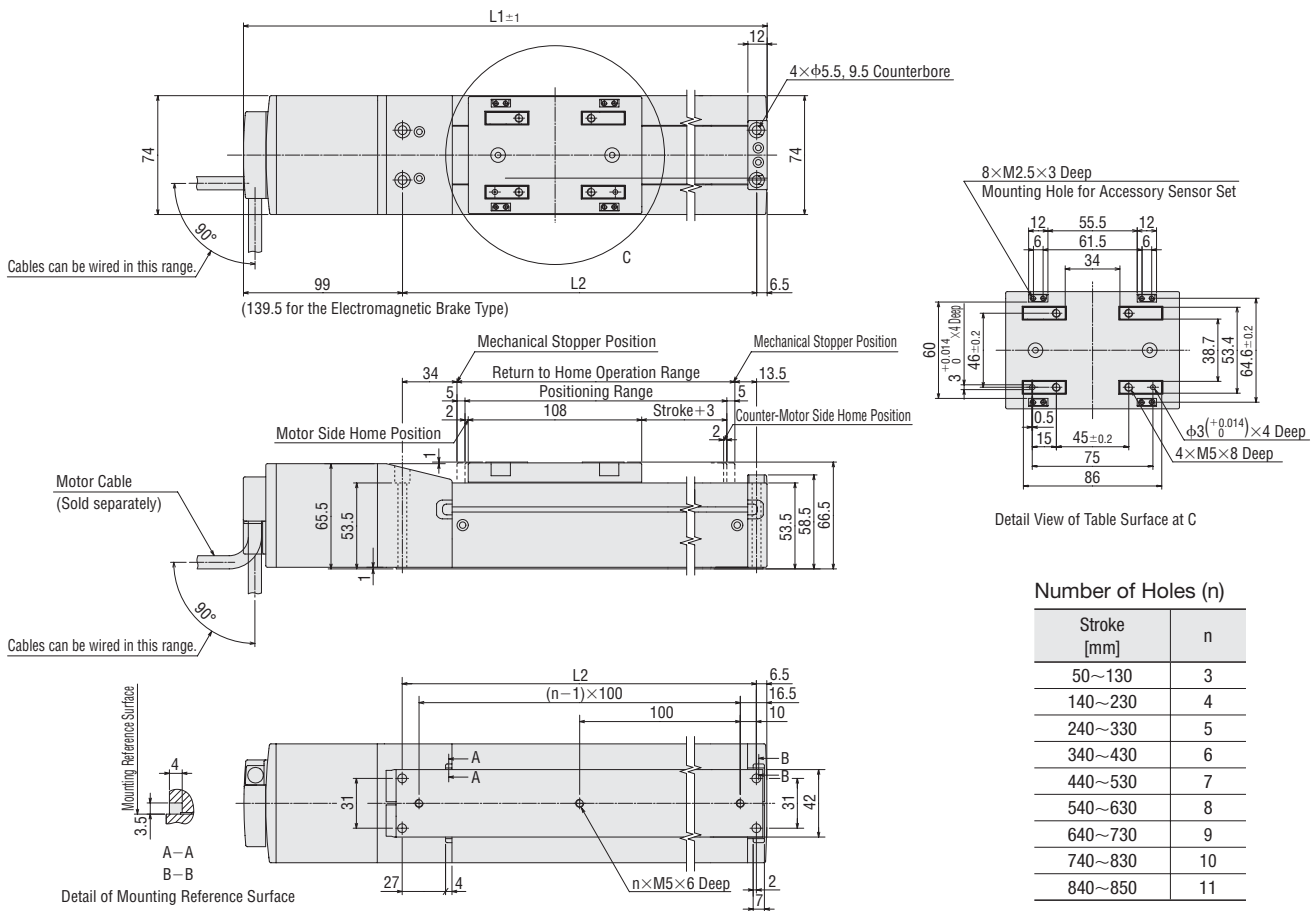
Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	30 kg	60 kg	0 kg	15 kg	30 kg
50~650	1.0	1.0	1.0	1.0	1.0	1.0
660~700	1.1	1.0	1.0	1.1	1.0	1.0
710~750	1.2	1.2	1.1	1.2	1.0	1.0
760~800	1.3	1.3	1.3	1.4	1.0	1.0
810~850	1.5	1.5	1.0	1.5	1.0	1.0

Notes:

- The positioning time in the graph does not include the settling time. Use a settling time of 0.15 s as a reference (settling time is adjustable by speed filter function).
- The starting speed should be 6 mm/s or less.

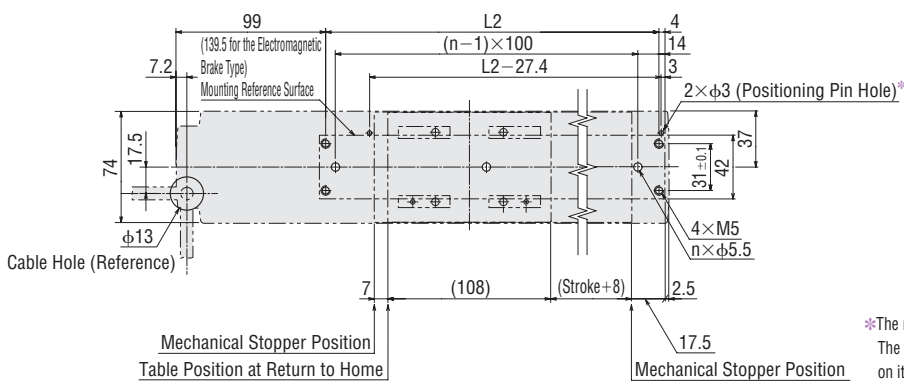
Dimensions of Linear Slide (Unit = mm)



Linear Slide Model: EZSM6D□K, EZSM6E□K (Without Electromagnetic Brake)
EZSM6D□MK, EZSM6E□MK (With Electromagnetic Brake)

	Electromagnetic Brake	Numbers Specifiable in the Box (□) within the Linear Slide Model Name																
		005	010	015	020	025	030	035	040	045	050	055	060	065	070	075	080	085
Stroke	Not Equipped/Equipped	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
	Not Equipped	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126
L1	Equipped	366.5	416.5	466.5	516.5	566.5	616.5	666.5	716.5	766.5	816.5	866.5	916.5	966.5	1016.5	1066.5	1116.5	1166.5
	Not Equipped/Equipped	220.5	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
Mass [kg]	Not Equipped	3.4	3.6	3.9	4.1	4.4	4.7	4.9	5.2	5.4	5.7	6.0	6.2	6.5	6.7	7.0	7.3	7.5
	Equipped	3.8	4.0	4.3	4.5	4.8	5.1	5.3	5.6	5.8	6.1	6.4	6.6	6.9	7.1	7.4	7.7	7.9
CAD	Not Equipped	D604	D605	D606	D607	D608	D609	D610	D611	D612	D613	D614	D615	D616	D617	D618	D619	D620
	Equipped	D621	D622	D623	D624	D625	D626	D627	D628	D629	D630	D631	D632	D633	D634	D635	D636	D637

Dimensions for Linear Slide Installation (Unit = mm)



*The mounting reference surface can be set on either side.
The figure assumes that the linear slide is mounted on its top surface.

EZSII Series Using an α STEP Motor

EZS6: 74 mm (W) × 66.5 mm (H)

Single-Phase 100-115 VAC
Single-Phase 200-230 VAC



Maximum Transportable Mass: Horizontal 60 kg/Vertical 30 kg
Stroke: 50 to 850 mm (in 50 mm increments)

Specifications of Linear Slide (RoHS)

Drive Method	Ball Screw	Repetitive Positioning Accuracy [mm]	±0.02	Resolution [mm]	0.01	Traveling Parallelism [mm]	0.03	Maximum Load Moment [N·m]	M _r : 45.7 M _v : 37.5 M _h : 55.6		
Model	Lead [mm]	Transportable Mass [kg]		Thrust [N]	Electromagnetic Brake Holding Force [N]	Maximum Speed (Stroke) [mm/s]					
		Horizontal	Vertical			50~550 mm	560~600 mm	610~650 mm	660~700 mm	710~750 mm	760~800 mm
EZS6D□-□	12	~30	—	~184	—	800	640	550	470	420	360
EZS6D□M-□			~15		184						
EZS6E□-□	6	~60	—	~369	—	400	350	300	260	230	200
EZS6E□M-□			~30		369						

- Enter the stroke length in the box (□) within the model name.
- Enter the power supply voltage **A** or **C** in the box (■) within the model name.
- * This applies when the linear slide is installed from the base surface.

Product Number Code

EZS 6 D 050 M - C

① ② ③ ④ ⑤ ⑥

①	Series EZS : EZSII Series
②	Linear Slide Size 6 : Width: 74 mm Height: 66.5 mm
③	Lead D : 12 mm E : 6 mm
④	Stroke 005 (50 mm) ~ 085 (850 mm)
⑤	Electromagnetic Brake Blank: Without Electromagnetic Brake M : With Electromagnetic Brake
⑥	Power Supply Voltage A : Single-Phase 100-115 VAC C : Single-Phase 200-230 VAC

Linear Slide/Controller Combinations

Model names for linear slide and controller combinations are shown below.

Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Not equipped	EZS6D□-A	EZSM6D□A	ESMC-A2
	EZS6D□-C	EZSM6D□C	ESMC-C2
	EZS6E□-A	EZSM6E□A	ESMC-A2
	EZS6E□-C	EZSM6E□C	ESMC-C2
Equipped	EZS6D□M-A	EZSM6D□MA	ESMC-A2
	EZS6D□M-C	EZSM6D□MC	ESMC-C2
	EZS6E□M-A	EZSM6E□MA	ESMC-A2
	EZS6E□M-C	EZSM6E□MC	ESMC-C2

- Enter the stroke length in the box (□) within the model name.

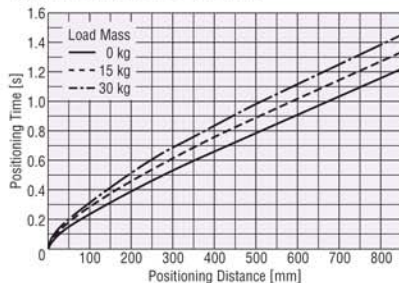
Positioning Distance – Positioning Time

Check the (approximate) positioning time from the positioning distance.

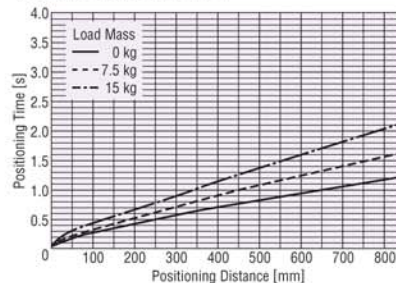
As a rough guideline, the positioning time by the linear slide corresponds to the positioning time calculated from the graph, multiplied by the positioning time coefficient corresponding to the applicable stroke.

● EZS6D (Lead: 12 mm)

◇ Horizontal Installation



◇ Vertical Installation

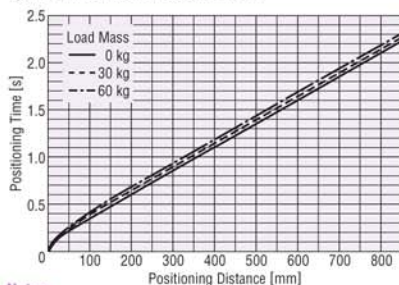


Positioning Time Coefficient

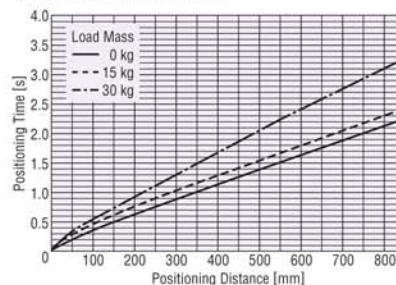
Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	15 kg	30 kg	0 kg	7.5 kg	15 kg
50~600	1.0	1.0	1.0	1.0	1.0	1.0
610~650	1.1	1.1	1.0	1.1	1.0	1.0
660~700	1.3	1.2	1.1	1.3	1.0	1.0
710~750	1.5	1.4	1.3	1.5	1.2	1.0
760~800	1.7	1.5	1.4	1.7	1.3	1.1
810~850	2.0	1.8	1.7	2.4	1.5	1.2

● EZS6E (Lead: 6 mm)

◇ Horizontal Installation



◇ Vertical Installation



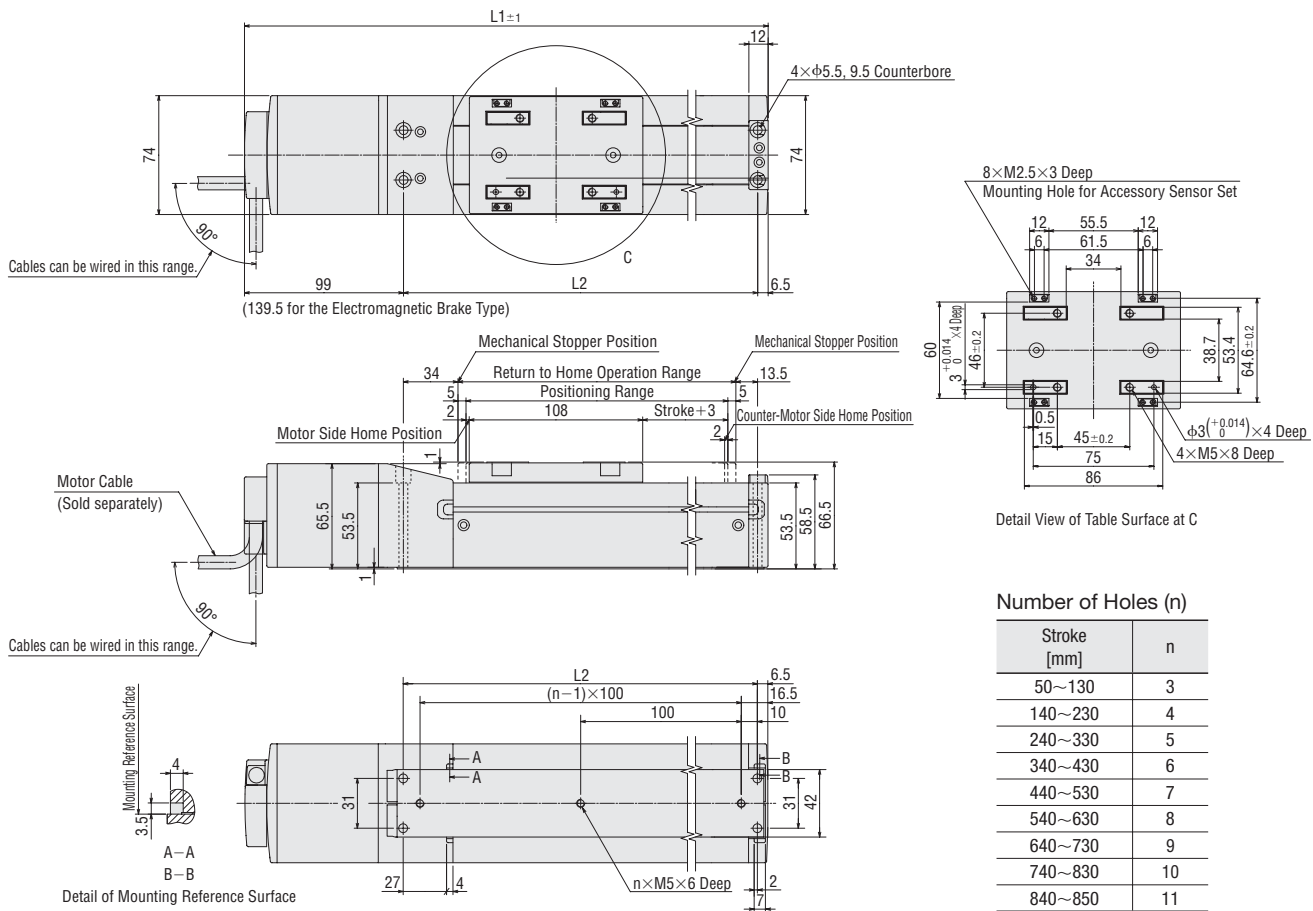
Positioning Time Coefficient

Stroke [mm]	Load Mass					
	Horizontal Installation			Vertical Installation		
	0 kg	30 kg	60 kg	0 kg	15 kg	30 kg
50~600	1.0	1.0	1.0	1.0	1.0	1.0
610~650	1.1	1.1	1.1	1.1	1.1	1.0
660~700	1.3	1.3	1.3	1.3	1.2	1.0
710~750	1.5	1.5	1.4	1.5	1.4	1.0
760~800	1.7	1.6	1.6	1.7	1.5	1.2
810~850	1.9	1.9	1.9	1.9	1.8	1.3

Notes:

- The positioning time in the graph does not include the settling time. Use a settling time of 0.15 s as a reference (settling time is adjustable by speed filter function).
- The starting speed should be 6 mm/s or less.

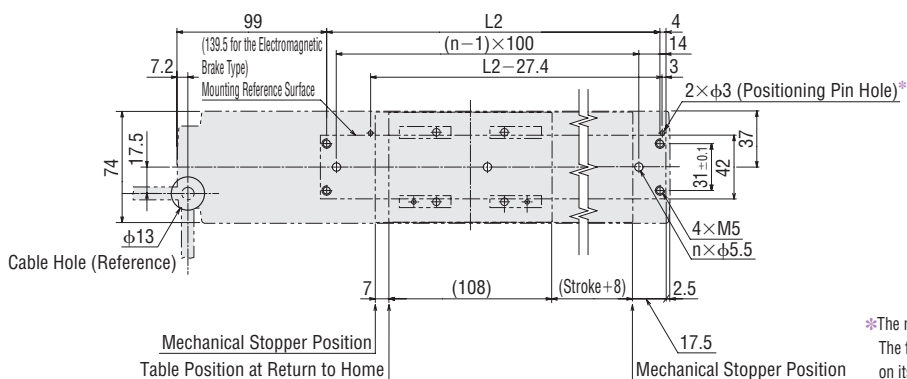
Dimensions of Linear Slide (Unit = mm)



Linear Slide Model: EZSM6D□A, EZSM6E□A, EZSM6D□C, EZSM6E□C (Without Electromagnetic Brake)
 EZSM6D□MA, EZSM6E□MA, EZSM6D□MC, EZSM6E□MC (With Electromagnetic Brake)

	Electromagnetic Brake	Numbers Specifiable in the Box (□) within the Linear Slide Model Name																
		005	010	015	020	025	030	035	040	045	050	055	060	065	070	075	080	085
Stroke	Not Equipped/Equipped	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850
	Not Equipped	326	376	426	476	526	576	626	676	726	776	826	876	926	976	1026	1076	1126
L1	Equipped	366.5	416.5	466.5	516.5	566.5	616.5	666.5	716.5	766.5	816.5	866.5	916.5	966.5	1016.5	1066.5	1116.5	1166.5
	Not Equipped/Equipped	220.5	270.5	320.5	370.5	420.5	470.5	520.5	570.5	620.5	670.5	720.5	770.5	820.5	870.5	920.5	970.5	1020.5
Mass [kg]	Not Equipped	3.4	3.6	3.9	4.1	4.4	4.7	4.9	5.2	5.4	5.7	6.0	6.2	6.5	6.7	7.0	7.3	7.5
	Equipped	3.8	4.0	4.3	4.5	4.8	5.1	5.3	5.6	5.8	6.1	6.4	6.6	6.9	7.1	7.4	7.7	7.9
CAD	Not Equipped	D604	D605	D606	D607	D608	D609	D610	D611	D612	D613	D614	D615	D616	D617	D618	D619	D620
	Equipped	D621	D622	D623	D624	D625	D626	D627	D628	D629	D630	D631	D632	D633	D634	D635	D636	D637

Dimensions for Linear Slide Installation (Unit = mm)



Specifications of Controller

Controller Mode

Item		Controller Model			
		ESMC-K2	ESMC-A2	ESMC-C2	
Type		Stored data type			
Power Supply Input	Control Power	24 VDC±5% 1.0 A [Controller only: 0.5 A (Take into account safety margin of +0.2 A for the teaching pendant, and/or +0.3 A for the electromagnetic brake type.)]			
	Main Power	Voltage	24 VDC±10%	Single-Phase 100-115 VAC -15~+10% Single-Phase 200-230 VAC -15~+10%	
		Frequency	—	50/60 Hz	
		Current	4.0 A ^{*1}	6.0 A ^{*1}	3.5 A ^{*1}
Positioning Data	Setting Mode	Absolute mode (absolute-position specification), Incremental mode (relative-position specification)			
	Number	63			
	Setting Method	Data is set using the accessory teaching pendant (EZT1) or data editing software (EZED2) (Stored in EEPROM).			
Positioning Control ^{*2}	Mode	Selective positioning Sequential positioning			
	Travel Amount Setting Range	-83886.08~+83886.07 mm (value set in units of 0.01 mm)			
	Starting Speed Setting Range	0.01~200.00 mm/s (value set in units of 0.01 mm/s)			
	Operating Speed Setting Range	0.01~800.00 mm/s (value set in units of 0.01 mm/s)			
	Acceleration/Deceleration Rate Setting Range	0.01~20.00 m/s ² (value set in units of 0.01 m/s ²)			
Control Mode		<ul style="list-style-type: none"> External input mode (EXT): In this mode, operation by external signal, command position, I/O condition and alarm condition can be monitored. Program mode (PRG): In this mode, operation data can be created, changed or cleared. Parameter mode (PAR): In this mode, operation parameters and function setting parameters can be set or changed. Test mode (TST): In this mode, manual operation and I/O check can be performed. 			
Operation Mode		Positioning operation, Return to home operation, Linked operation (a maximum of 4 data), Continuous operation			
Input Signal/Input Mode		START, STOP, HOME/PRESET, FREE, MO~M5, REQ, ACL/CK 24 VDC Photocoupler input, Input resistance 4.7 kΩ FWD, RVS 5 VDC Photocoupler input, Input resistance 180 Ω or 24 VDC Photocoupler input, Input resistance 2.7 kΩ +LS, -LS, HOMELS 24 VDC Photocoupler input, Input resistance 4.7 kΩ			
Output Signal/Output Mode		ALM, END/OUTR, MOVE, AREA/OUT0, OUT1 Photocoupler, Open-collector output (24 VDC, 10 mA or less) ASG1, BSG1 Photocoupler, Open-collector output (24 VDC, 15 mA or less) ASG2, BSG2 Line driver output			
Protective Function		Excessive position deviation, Overcurrent protection, Overvoltage protection, Overheat protection, Overload, Sensor error, Overspeed, Nonvolatile memory error, etc.			
Indicator (LED)		PWR, ALM	PWR, ALM, CHARGE		
Cooling Method		Natural ventilation			
Mass		0.44 kg	0.77 kg		

Driver Mode

Item		Controller Model			
		ESMC-K2	ESMC-A2	ESMC-C2	
Power Supply Input	Control Power	24 VDC±5% 1.0 A [Controller only: 0.5 A (Take into account safety margin of +0.2 A for the teaching pendant, and/or +0.3 A for the electromagnetic brake type.)]			
	Main Power	Voltage	24 VDC±10%	Single-Phase 100-115 VAC -15~+10% Single-Phase 200-230 VAC -15~+10%	
		Frequency	—	50/60 Hz	
		Current	4.0 A ^{*1}	6.0 A ^{*1}	3.5 A ^{*1}
Maximum Response Frequency		1-pulse input mode, 2-pulse input mode: 80 kHz, Phase difference input mode: 20 kHz			
Operation Mode		Return to home operation, Pulse input operation (1-pulse input mode, 2-pulse input mode, Phase difference input mode)			
Input Signal/Input Mode		ACL/CK, FREE, C.OFF, HOME/PRESET, REQ, HMSTOP 24 VDC Photocoupler input, Input resistance 4.7 kΩ FP, RP 5 VDC Photocoupler input, Input resistance 180 Ω or 24 VDC Photocoupler input, Input resistance 2.7 kΩ +LS, -LS, HOMELS 24 VDC Photocoupler input, Input resistance 4.7 kΩ			
Output Signal/Output Mode		MOVE, END/OUTR, ALM, TIM/OUT0, OUT1 Photocoupler, Open-collector output (24 VDC, 10 mA or less) ASG1, BSG1 Photocoupler, Open-collector output (24 VDC, 15 mA or less) ASG2, BSG2 Line driver output			
Protective Function		Excessive position deviation, Overcurrent protection, Overvoltage protection, Overheat protection, Overload, Sensor error, Overspeed, Nonvolatile memory error, etc.			
Indicator (LED)		PWR, ALM	PWR, ALM, CHARGE		
Cooling Method		Natural ventilation			
Mass		0.44 kg	0.77 kg		

*1 The maximum current varies depending on the connected linear slide.

[ESMC-K2] EZSM3/EZSM4: 1.7 A EZSM6: 4.0 A

[ESMC-A2] EZSM3/EZSM4: 3.0 A EZSM6: 5.0 A

[ESMC-C2] EZSM3/EZSM4: 2.1 A EZSM6: 3.0 A

*2 Values vary depending on the connected linear slide. Check the specifications of each series.

General Specifications of Controller

This is the value after rated operation under normal ambient temperature and humidity

24 VDC

Item	Specification
Insulation Resistance	100 MΩ or more when 500 VDC megger is applied between the following places: • FG – Main power supply terminal • FG – I/O connector
Dielectric Strength	Sufficient to withstand the following for 1 minute: • FG – Main power supply terminal 0.5 kVAC 50 Hz • FG – I/O connector 0.5 kVAC 50 Hz
Ambient Temperature	0 ~ +40°C (non-freezing)
Ambient Humidity	85% or less (non-condensing)

Note:

- Do not measure insulation resistance or perform the dielectric strength test while the linear slide and controller are connected.

Single-Phase 100-115 VAC/Single-Phase 200-230 VAC

Item	Specification
Insulation Resistance	100 MΩ or more when 500 VDC megger is applied between the following places: • I/O connector – Main power supply terminal, Motor connector, Battery connector • Control power supply terminal – Main power supply terminal, Motor connector, Battery connector • PE – Main power supply terminal, Motor connector, Battery connector
Dielectric Strength	Sufficient to withstand the following terminals for 1 minute: • Signal I/O, Control power supply – Main power supply 1.8 kV • Signal I/O, Control power supply – Motor output 1.8 kV • Signal I/O, Control power supply – Battery input 1.8 kV • PE – Main power supply 1.5 kV • PE – Motor output 1.5 kV • PE – Battery input 1.5 kV
Ambient Temperature	0 ~ +40°C (non-freezing)
Ambient Humidity	85% or less (non-condensing)

Note:

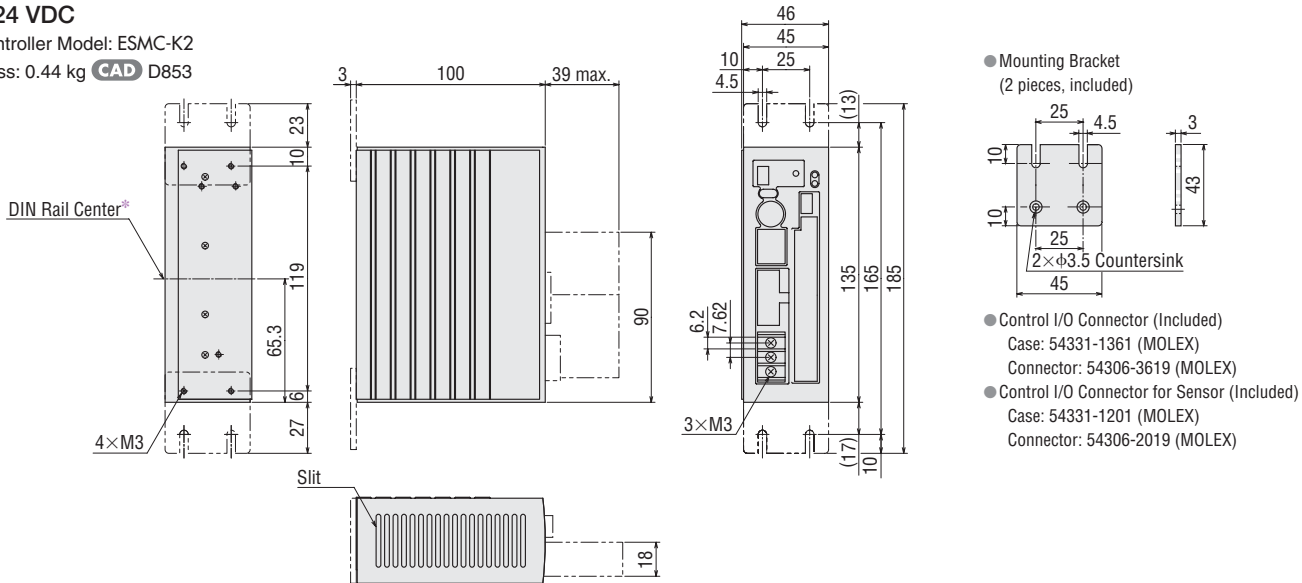
- Do not measure insulation resistance or perform the dielectric strength test while the linear slide and controller are connected.

Controller Dimensions (Unit = mm)

24 VDC

Controller Model: ESMC-K2

Mass: 0.44 kg **CAD** D853

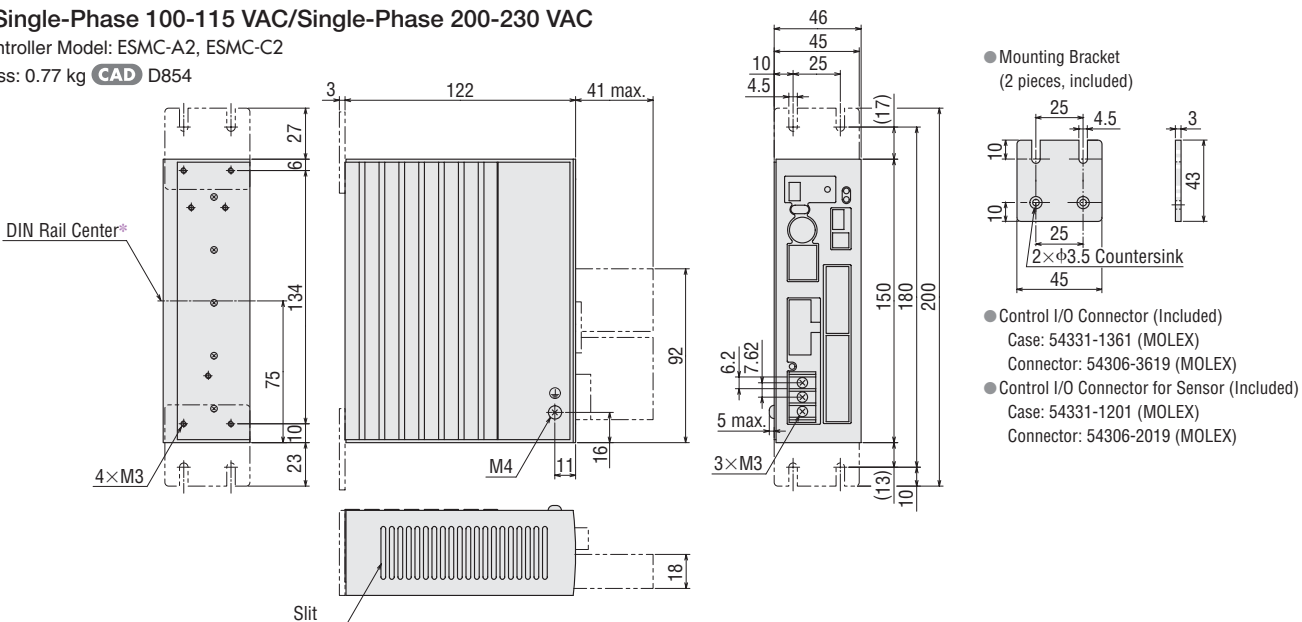


*The center of the DIN rail when a DIN rail mounting plate (**PADP01**, sold separately) is used for installation.

Single-Phase 100-115 VAC/Single-Phase 200-230 VAC

Controller Model: ESMC-A2, ESMC-C2

Mass: 0.77 kg **CAD** D854



*The center of the DIN rail when a DIN rail mounting plate (**PADP01**, sold separately) is used for installation.