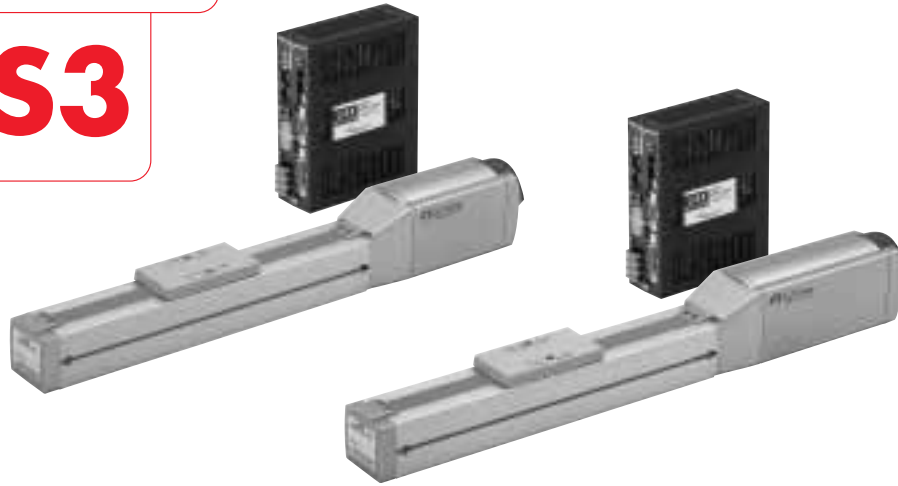


EZHS Series

EZHS3



Specifications

Model	Incremental Type		EZHS3A-□I		EZHS3A-□MI		
	Absolute Type		EZHS3A-□A		EZHS3A-□MA		
Motor Type	Stepping Motor with Built-in Rotor-Position Sensor						
Drive Method	Ball Screw						
Electromagnetic Brake			Not equipped		Equipped		
Speed Range	mm/s		~800		~800		
Max. Transportable Mass	kg	Horizontal Direction	5		5		
		Vertical Direction	—		2.5		
Max. Acceleration	m/s ²	Horizontal Direction	2.5		2.5		
		Vertical Direction	—		2.5		
Max. Thrust Force	N kgf		30	3	30	3	
			30	3	30	3	
Max. Holding Brake Force	N kgf	Power ON	30 3		30 3		
		Power OFF	—		—		
		Electromagnetic Brake	—		30 3		
Repetitive Positioning Accuracy	mm		±0.02				
Resolution	mm		0.01				
Lead	mm		12				
Stroke	mm		50, 100, 150, 200, 250, 300, 400, 500				
Mass of Linear Slide	Figure in the parentheses shows the mass of the model with electromagnetic brake. kg		Stroke	50 : 1.6 (1.8)	100 : 1.7 (1.9)	150 : 1.8 (2.0)	200 : 1.9 (2.1)
				250 : 2.0 (2.2)	300 : 2.1 (2.3)	400 : 2.3 (2.5)	500 : 2.5 (2.7)
Ambient Temperature	°C		0~+40(Nonfreezing)				

● See page 54 for the specification and dimensions of the controller.

General Specifications

Item	Specification
Insulation Resistance	100 MΩ minimum when measured by a DC 500 V megger between the following places. • Windings — Case • Case — Windings of electromagnetic brake (Only for electromagnetic brake equipped model)
Dielectric Strength	Sufficient to withstand the following for one minute. • Windings — Case AC 1.0 kV 50 Hz • Case — Windings of electromagnetic brake AC 1.0 kV 50 Hz (Only for electromagnetic brake equipped model)

Linear Slide/Controller Combinations

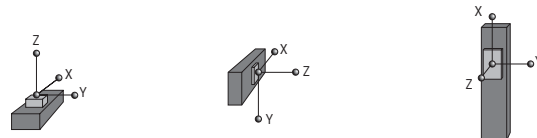
Type	Electromagnetic Brake	Model	Linear Slide Model	Controller Model
Incremental Type	Not equipped	EZHS3A-□I	EZHS3A-□	EZMC13I-A
	Equipped	EZHS3A-□MI	EZHS3A-□M	
Absolute Type	Not equipped	EZHS3A-□A	EZHS3A-□	EZMC13A-A
	Equipped	EZHS3A-□MA	EZHS3A-□M	

*The box (□) in the model name and linear slide model name represents the code for stroke length.

Allowable Overhung Length (mm)

* The length from the center of load's mounting surface to the center of gravity of the object being carried.

- Horizontal Installation
- Wall Mount Installation
- Vertical Installation



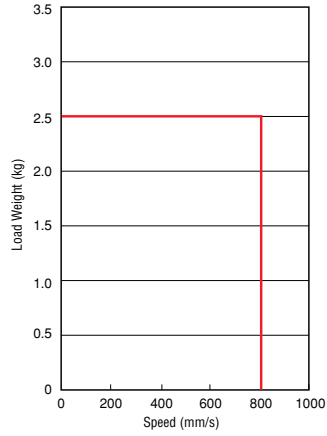
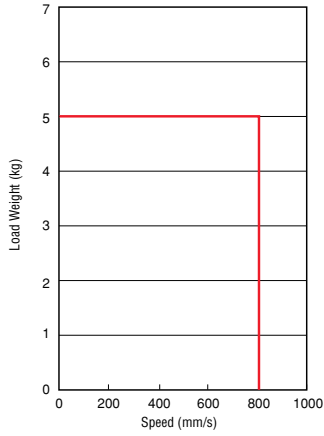
Carried Weight	Horizontal Installation			Wall Mount Installation			Vertical Installation		
	X	Y	Z	X	Y	Z	X	Y	Z
1kg	203	300	300	155	300	298	135	124	135
2.5kg	73	123	288	62	243	93	58	58	48
5kg	30	50	118	19	75	25	37	37	31

The values shown in the tables are for uni-axial loading. For multi-axis loading please contact an Oriental Motor representative for assistance.

Correlation Diagram of Speed and Load Weight

● Horizontal Direction

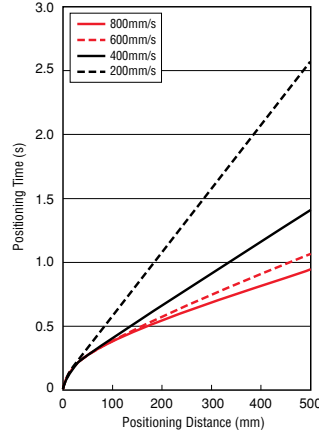
● Vertical Direction



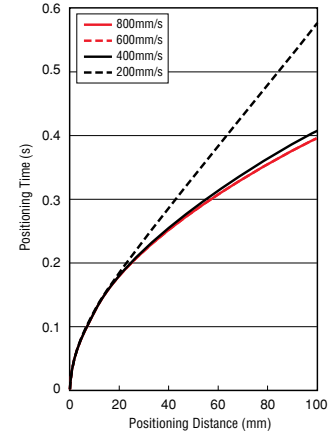
Minimum Positioning Time

Acceleration: 2.5 m/s² Starting Speed: 6 mm/s

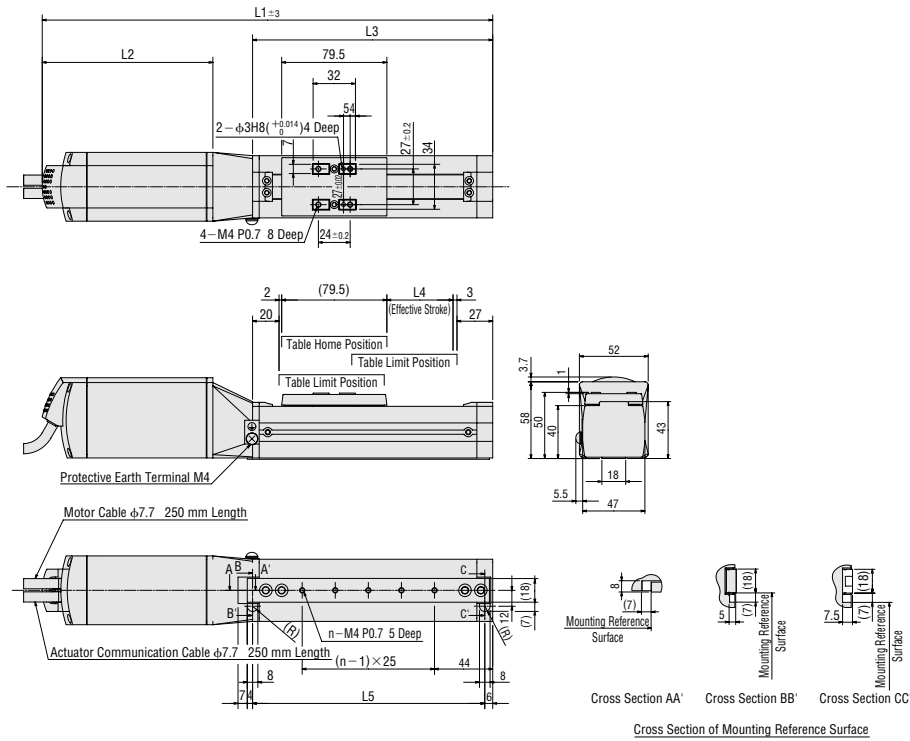
● Horizontal Direction/ Vertical Direction



Enlargement of Positioning Distance under 100 mm



Dimensions unit: mm



Linear Slide Model	L1	L2	L3	L4	L5	n
EZHS3A-05	340.5	129	181.5	50	175.5	5
EZHS3A-05M	370.5	159				
EZHS3A-10	390.5	129	231.5	100	225.5	7
EZHS3A-10M	420.5	159				
EZHS3A-15	440.5	129	281.5	150	275.5	9
EZHS3A-15M	470.5	159				
EZHS3A-20	490.5	129	331.5	200	325.5	11
EZHS3A-20M	520.5	159				
EZHS3A-25	540.5	129	381.5	250	375.5	13
EZHS3A-25M	570.5	159				
EZHS3A-30	590.5	129	431.5	300	425.5	15
EZHS3A-30M	620.5	159				
EZHS3A-40	690.5	129	531.5	400	525.5	19
EZHS3A-40M	720.5	159				
EZHS3A-50	790.5	129	631.5	500	625.5	23
EZHS3A-50M	820.5	159				