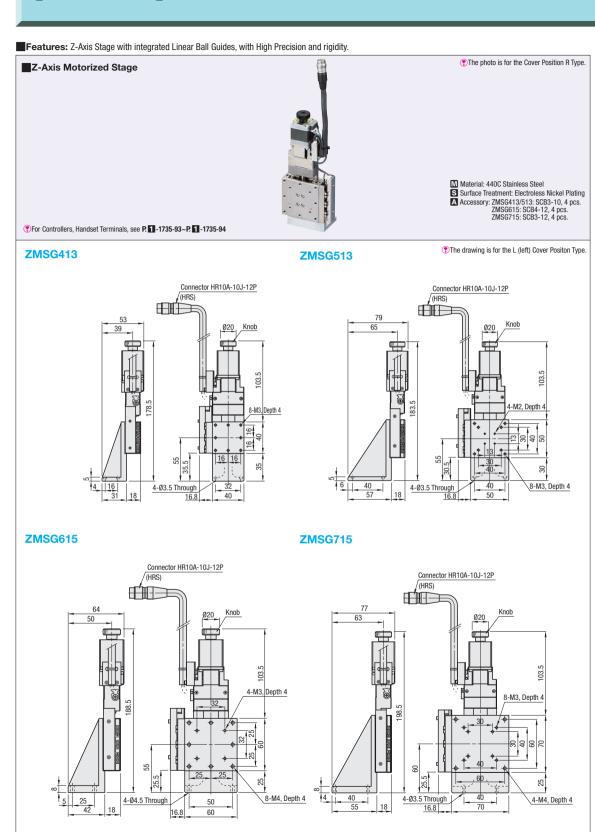
[Motorized] Z-Axis, Linear Ball Slide



Configure Online



For CAD data, see the MISUMI website.

Part Nu	mber	per Sensor					Mechanical Standards			Accuracy Standards*4		
Туре	No.	Cover Position	Logic	Voltage (V)	Motor	Cable	Cable Stage Surface (mm)			Unidirectional Positioning Accuracy	Pitching	Yawing
	413	A		C (Standard) N (Cable not included (separately sold))	40×40	0.6						
ZMSG	513	L(Standard)		24"	(With Electroniagnetic	M ^{*2} for Motor with Electromagnetic Brake) P ^{*2} (For <i>a</i> - Step) U ^{*2} (For Servo Motor) Por combination of motors and cables, see the table below.		0.8	6um or less	15"	10''	
ZIVISG	615	R(Reversed)					60×60	15	0.9	Upini Oi ress 13	10	10
	715		Home Sensor is N.O.)	1	UA*2 (Servo Motor)		70×70	15	1.2			

^{*1 24}VDC sensors cannot be operated from the MSCTL102/112 controller. When selecting 5V for voltage configuration, applying over 5V voltage will cause breakage.

*4 Accuracy specifications are for single axis (horizontal orientation) configuration.

		-					-
Ordering	Part Number	-	Sensor	-	Motor	-	Cable
Example	ZMSG413	-	LA5	-	С	-	N
							_

Common Specifications				
Feed Screw	Ball Screw Ø6, Lead 1			
Guide	Linear Ball Guide			
Resolution*1	2μm/Pulse (Full)			
nesolution	1μm/Pulse (Half)			
Positioning Repeatability	Within ±0.5µm			
Load Capacity	49N			
Lost Motion	1μm or less			
Backlash	0.5µm or less			
Parallelism	15um or less			

^{*1} Stage travel per one pulse.

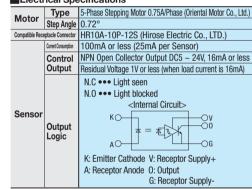
■Motor/Cable Application Table

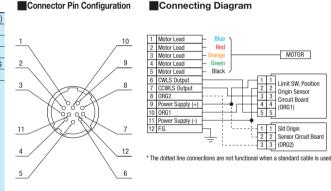
Motor	Cable	
C,D,E	N (Not Provided)	
MA	M	TFor the cable for
PA	P	F or G. see MSCE
UA	U	on P. 11-1735-9 5

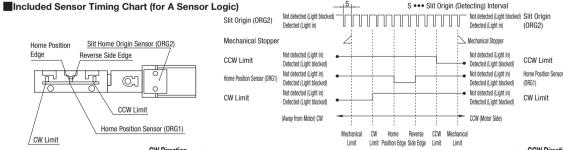
Max. Speed							
Motor	(mm/sec)	Motor	(mm/sec)				
С	10	MA	10				
D	25	PA	30				

Note that the speed and positioning time will vary depending on the usage conditions. The values shown here are MISUMI's reference values. Operation at these values is not guaranteed.









		CW Direction -					CCW Direction
Travel Distance F	Reference Position	Mechanical Limit	CW Limit	Home	Other Signal Edge	CCW Limit	Mechanical Limit
13	Homing	8	7.5	0	2	6.5	7
15	Homing	9	8.5	0	2	7.5	8
30	Homing	16.5	16	0	2	15	15.5
50	Homing	26.5	26	0	2	25	25.5
Common			Slit Home Positio	n (Detecting) Inte	rval S=1		

[•] Homing Routine Above: When MSCTL102/112 controller is used and when the Homing Routine Type 3 (see below) is executed.

Recommended Homing Method

Type3	After detection is executed in the CCW direction, the process of detecting in the CCW direction is begun based on the ORG signa
Type4	After detection is executed in the CW direction, the process of detecting in the CW direction is begun based on the ORG signal
Type9	After Type 3 is executed, the process of detecting in the CCW direction is begun based on the TIMING signal
Type10	After Type 4 is executed, the process of detection in the CW direction is begun based on the TIMING signal

(Unit: mm)

^{*2} For motor options MA and PA, the driver is included in the set. For motor option U, the amp is included in the set. With motor option MA, only cable option M is selectable. With motor option PA, only cable option P is selectable. With motor option U, only cable option U is selectable. In all three cases, cable option N (no cable) is not selectable.

^{*3} The value is for C Type of Motor.

[•] Accuracy specifications are for single axis (horizontal orientation) configuration.

[•] The coordinates shown are design values. There may be approx. ±0.5mm misalignment on the physical dimensions.