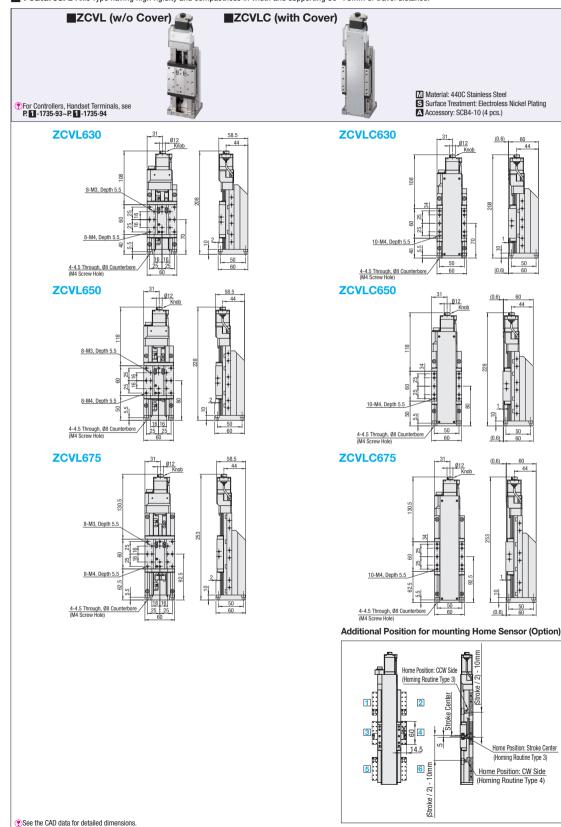
Features: Z-Axis Type having high rigidity and compactness in width and supporting 30~75mm of travel distance.

[High Precision] Motorized Z-Axis - Linear Ball, CAVE-X POSITIONER

MOTORIZED STAGES Z-AXIS LINEAR BALL CAVE-X POSITIONER

Stroke 30~75



	lumber	1	Home Sensor			Mech	anical S	tandards		cy Standa	ards
Туре	No.	Lead (mm)	Options of Additional	Motor	Cable		Travel Distance		Undirectional Positioning Accuracy (for a single axis stage horizontally placed) Unidirectional Positioning	Pitching	Yawin
Type	140.	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Position for Home Sensor			(mm)	(mm)	(kg)	Accuracy for a single axis stage placed fieldy	Fitching	Tawiii
	630		N(W/o Sensor)	C(Standard) F(High Torque)	N(Cable not included		30	ZCVL:2.0	Fum		
ZCVI			1 (CCW Right)		(separately sold)) M*1(For Motor with			ZCVLC:2.1			
(w/o Cov	er)		2(CCW Left)	G(High Resolution)	Electromagnetic Bral			ZCVL:2.1	5μm		
ZCVL	650	1	3(Right-center) 4(Left-center)	MA ^{*1} (With Electromagnetic	(i oi (i otop)	60×60	50	ZCVLC:2.2		20''	15''
	-	_	5(CW Right)	Brake) PA ^{*1} (<i>a</i> -Step)	(For Servo Motor) For combination of					-	
(with Cov	675		6(CW Left)	U ^{*1} (Servo Motor)	motors and cables,		75	ZCVL:2.3	7µm		
	015		Climit Sensor is built-in.	(,	see the table below.		15	ZCVLC:2.3	7μ		
Option N 2. The value	e Motor Optic (Cable not ir e is for C Typ Ordering Example	ncluded). e of Motor. Part Nu	mber - Lea		nsor - Motor	- Cab	ble			M, P, U and is t figure O	
	Example	ZCVL		- N - 1	- C - PA	- N - P		رکھ	u ann		
Motor/	Cable App	lication Tal	ble Max. S	peed		C	ommon	Specificat	ions		
Mot	or	Cable	Motor	r (mm/sec)		Fee	d Screw	-	Ball Scr	ew Ø8, Lead 1	
C,F,	G N (Not Provide	d) C	20	-	Guio	de			r Ball Guide	
MA		М	F	30	_		Full			2µm	
PA		Ρ	G	15	_	Reso	olution Hal			1µm	
U		U	MA	25	_		Fin	e (At 1/20)		0.1µm	
For the cable for C, F or G, see MS				40	_	Max	. Speed		20mm/sec		
P. 1 -1735	-95		U 50		_	Posi	itioning re	peatability	4	±0.5µm	
				peed and positioning time differ		Loa	d Capacity	/ *3		68.6N	
				on of use. The speed and position ues but reference values provide	5	-	t Motion			1µm	
Connector Pin Configurat					o oy mioomi.		klash			1µm	
Conne	ctor Pin C	onfiguratio					ightness			3µm	
1 10			1 Motor Lead 2 Motor Lead	- Blue Red		-	allelism			15µm	
2		9	3 Motor Lead	Orange MO	TOR	Mot	ion Paralle			10µm	
3		8	4 Motor Lead 5 Motor Lead	Green Black	-	•	The value d	iffers depending on	the type of motor. For de	etails, see 🧜 🚺	-1735-15
$\frac{11}{\frac{4}{5}}$		7 12 6	6 CWLS Output 7 CCWLS Output 8 Open 9 Power Supply (+ 10 ORG Output 11 Power Supply (-) 12 F.G.		OUT1 (Black) OUT2 (White) O(Blue)		above specific	ations table is for a pacity value is for Z	single axis stage placed	flatly.	
4 5 The abov other typ	es of motor,	12 6 nector pin cor see P. 1 -173	7 CCWLS Output 8 Open 9 Power Supply (+ 10 ORG Output 11 Power Supply (-) 12 F.G.		OUT2 (While) Globe) Globe) Globel	*3. The	above specific	ations table is for a	single axis stage placed	flatly.	
4 5 The abov other typ	es of motor,	12 6 nector pin cor	7 CCWLS Output 8 Open 9 Power Supply (+ 10 ORG Output 11 Power Supply (+) 12 F.G. stfguration / wiring diag st5-16	aram for C, F, G. For connec	tor pin configuration / wi	*3. The	above specific	ations table is for a	single axis stage placed		
4 5 The abov other typ	es of motor,	12 6 nector pin cor see P. 1 -173	7 CCWLS Output 8 Open 9 Power Supply (+ 10 ORG Output 11 Power Supply (-) 12 F.G.	ram for C, F, G. For connec	etor pin configuration / wi	*3. The	above specific	ations table is for a	single axis stage placed Axis.	U	
4 5 The abov other typ	es of motor, a	12 6 nector pin con see P. 1-173 ecificatio	7 CCWLS Output 8 Open 9 Power Supply (+ 10 Oriko Supply (+ 11 Power Supply (+) 12 F.G. st5-16 DDS	aram for C, F, G. For connec	tor pin configuration / wir	*3. The	above specific	ations table is for a pacity value is for Z	tion H		
4 5 The abov other typ	es of motor, rical Sp Motor	12 6 nector pin cor see P. 1 -173 ecificatio	7 CCWLS Output 8 Open 9 Power Supply (+ 10 Oriko Supply (+ 11 Power Supply (+) 12 F.G. st5-16 DDS	rram for C, F, G. For connect	tor pin configuration / wir	*3. The	above specificities above load ca	PA pping-out Prever a-Step Motor 0.36°	tion H	U ligh Speed C Servo Motor 8-bit Encoder	
• The abov other typ	es of motor, rical Spo Motor Typ	e e ngle	7 CCWLS Output 8 Open 9 Power Supply (+) 10 ORG Output 11 Power Supply (-) 12 F.G. 0DRS C Standard 0.72°	F High Torque 5-Phase Stepping M	G High Resolution oto 0.75A/Phase	*3. The	etic Brake Stee (W 210	PA pping-out Prever a-Step Motor	tion H Avis. tion H (application H (b) A((b) A((b) A((b) A) (c) A((c) A) (c) A) (c	U ligh Speed 2 Servo Motor 8-bit Encoder 262144P/R) able JN4FT04:	SJ1-R ndustry, L1
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• The abov other typ Elect Motor	rical Spo Motor Step A Applic Conne	ector pin con see P 1 -173 ecification e able tacle ctor	7 CCWLS Output 8 Open 9 Power Supply (+10) 10 Ore Output 11 Power Supply (+12) F.G. Standard	F High Torque 5-Phase Stepping N 0.72°	Contemporation / with the second seco	*3. The *3. The ing for MA Mith Electromagne 0.72° 5559-06R-: (Molex Japan Provided	etic Brake Stee etic Law (W 210 LLC)	PA pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 (Molex Japan LLC	tion H Avis. tion A(set) (1 (Japan Aviation (Japan Aviation (Tyco Ele	U ligh Speed C Servo Motor Sebit Encoder 262144P/R) able JN4FT041 n Electronics In der: 1674320 octronics Japa	SJ1-R ndustry, Li
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• The abov other typ Elect Motor	es of motor, rical Sp Motor Typ Step A Applic Recept Conne Limit Sr Home S Near Home Power Supp	ector pin cor see P 1-173 ectification e ngle able tacle ctor ensor s Sensor y Voltage	7 CCWLS Output 8 Open 9 Power Supply (+10) 10 Ore Output 11 Power Supply (+12) F.G. Standard	F High Torque 5-Phase Stepping W 0.72° 2S (73) (Hirose Electr	Contemporation of the second	*3. The wills ing for MA With Electromagne 0.72° 5559-06R- (Molex Japan Provided Provided Provided 2anasonic Indus - DC5~24V±10%	etic Brake Stee etic Brake Stee (W 210 1 LLC)	PA ppacity value is for Z pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 (Molex Japan LLC	tion H Avis. tion A(set) (1 (Japan Aviation (Japan Aviation (Tyco Ele	U ligh Speed C Servo Motor Sebit Encoder 262144P/R) able JN4FT041 n Electronics In der: 1674320 octronics Japa	SJ1-R ndustry, Li
4 5 The abov other typ Elect Motor	es of motor, rical Spo Motor Typ Step A Applic Recept Conne Limit So Home S Near Home	ector pin cor see P 1-173 ectification e ngle able tacle ctor ensor s Sensor y Voltage	7 CCWLS Output 8 Open 9 Power Supply (+10) 10 Ore Output 11 Power Supply (+12) F.G. Standard	F High Torque 5-Phase Stepping W 0.72° 2S (73) (Hirose Electr	Contemporation of the second	*3. The wiss ing for MA With Electromagne 0.72° 5559-06R-: (Molex Japan Provided Panasonic Indus - DC5-24V±10% s (15mA or less	etic Brake Stee etic Brake Stee (W 210 1 LLC) etical Devices etical Devices	PA pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 (Molex Japan LLC SUNX Co., Ltd.) is	tion H Avis. tion A(set) (1 (Japan Aviation (Japan Aviation (Tyco Ele	U ligh Speed C Servo Motor Sebit Encoder 262144P/R) able JN4FT041 n Electronics In der: 1674320 octronics Japa	SJ1-R ndustry, Lt
4 5 The abov other typ Elect Motor	es of motor, rical Sp Motor Typ Step A Applic Recept Conne Limit Sr Home S Near Home Power Supp	ector pin consee P 11-173 ecification e ngle able ctor ensor ensor essor y Voltage sumption	7 CCWLS Output 8 Open 9 Power Supply (+10) 10 Ore Output 11 Power Supply (+12) F.G. Standard	F High Torque 5-Phase Stepping M 0.72° 2S (73) (Hirose Electr	Contemporation of the second	*3. The *3. The *5.55-06R-1 (Molex Japan *4.05-24V±10% \$ (15mA or less 0.01put D C30V d 0.01put D C30V d 0.01put D C30V d	etic Brake Stee etic Brake Stee (W 210 1 LLC) : per sensor) yr less, 50mA	PA pping-out Prever a-Step Motor 0.36° hen 1000/R is 43020-1000 (Molex Japan LLC SUNX Co., Ltd.) is	tion H Avis. tion A(set) (1 (Japan Aviation (Japan Aviation Encc (Tyco Ele	U ligh Speed C Servo Motor Sebit Encoder 262144P/R) able JN4FT041 n Electronics In der: 1674320 octronics Japa	SJ1-R ndustry, L1
4 5 The abov other typ Elect Motor	es of motor, rical Sp Motor Typ Step A Applic Recept Conne Limit Se Home S Near Home Power Suppl Current Con	able ensor ensor esser y Voltage sumption Dutput	7 CCWLS Output 8 Open 9 Power Supply (+10) 10 Ore Output 11 Power Supply (+12) F.G. Standard	F High Torque 5-Phase Stepping M 0.72° 2S (73) (Hirose Electr	Contemporation / with the second seco	*3. The	etic Brake Stee etic Brake Stee (W 210 b LLC) per sensor) o ress, 50mA al Voltage 1V	PA ppacity value is for Z pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 (Molex Japan LLC SUINX Co., Ltd.) is or less or less (when los	tion H Avis. tion A(set) (1 (Japan Aviation (Japan Aviation Encc (Tyco Ele	U ligh Speed C Servo Motor Sebit Encoder 262144P/R) able JN4FT041 n Electronics In der: 1674320 octronics Japa	SJ1-R ndustry, Li
4 5 The abov other typ Elect Motor Connector Sensor	es of motor, rical Spo Motor Typ Step A Applic Recept Conne Limit St Home S Near Home Power Supp Current Con	able ector pin conserver P 1 - 173 ecification e ngle able ctor ensor ensor 9 Sensor y Voltage sumption Output Logic	7 CCWLS Output 8 Open 9 Power Supply (+ 10 Ori6 Output 11 Power Supply (-) 12 F.G. standard 0.72° HR10A-10P-1: No	F High Torque 5-Phase Stepping M 0.72° 2S (73) (Hirose Electr t Provided by standard (Ph Residual Voltage 2V or I	dorr (white) d	*3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *4.	etic Brake Stee etic Brake Stee (W (W 210 b LLC) per sensor) pr less, 50mA al Voltage 1V	PA ppacity value is for Z pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 (Molex Japan LLC SUINX Co., Ltd.) is or less or less (when los ducting)	tion H Avis. tion A(set) (1 (Japan Aviation (Japan Aviation Encc (Tyco Ele	U ligh Speed C Servo Motor Sebit Encoder 262144P/R) able JN4FT041 n Electronics In der: 1674320 octronics Japa	SJ1-R ndustry, L
A S Sensor Sensor	es of motor, rical Spo Motor Typ Step A Applic Recep Conne Limit Sc Home S Near Home Power Supp Current Con Control C Output with Part Nur	ector pin consee P 1 - 173 ecification e e ngle able ctor ensor essor y Voltage sumption Dutput Logic mber PM-2	7 CCWLS Output 8 Open 9 Power Supply (+ 10 ORG Output 11 Power Supply (-) 112 F.G. standard 0.72° HR10A-10P-1: No C	F High Torque 5-Phase Stepping M 0.72° 2S (73) (Hirose Electr t Provided by standard (Ph Residual Voltage 2V or I Residual Voltage 2V or I d and replaced by next-ge	dorr (white) d	*3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *4. The *4. The *5.559-06R-1 (Molex Japan *4. The *5.559-06R-1 (Molex Japan *4. The *4. The *4. The *4. The *5.559-06R-1 (Molex Japan *4. The *4. The	etic Brake Stee etic Brake Stee (W (W 210 b LLC) per sensor) pr less, 50mA al Voltage 1V	PA ppacity value is for Z pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 (Molex Japan LLC SUINX Co., Ltd.) is or less or less (when los ducting)	tion H Avis. tion A(set) (1 (Japan Aviation (Japan Aviation Encc (Tyco Ele	U ligh Speed C Servo Motor Sebit Encoder 262144P/R) able JN4FT041 n Electronics In der: 1674320 octronics Japa	SJ1-R ndustry, L1
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4 5 The above other typ Elect Motor Connector Sensor Sensors Timin	es of motor, rical Spo Motor Typ Step A Applic Recep Conne Limit Sc Home S Near Home Power Supp Current Con Control C Output with Part Nur	able acce ctor pin conserver P 1 - 173 ecification of the conserver of the	7 CCWLS Output 8 Open 9 Power Supply (+ 10 10 Orig Output 11 Power Supply (+ 12 12 F.G. standard O.72° HR 10A - 10P - 1: 0.72° 4 are to be discontinuu Mechanical Stoper 1 CCW Limit No		dorr (white) d	*3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *4.	etic Brake Stee etic Brake Stee (W (W 210 b LLC) per sensor) pr less, 50mA al Voltage 1V	PA pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 Molex Japan LLC SUNX Co., Ltd.) is or less or less (when loa ducting) pril 2017.	tion H Avis. Avis. tion H A(i set) (1 (Japan Aviation (Japan Aviation C (Tyco Ele s available as the opt d current is 16mA)	U ligh Speed 2 Servo Motor 8-bit Encoder 262144P/R) able JN4FT04X n Electronics In der: 1674320 setronics Japa ion.)	SJ1-R ndustry, L' n G.K.)
	es of motor, rical Spo Motor Typ Step A Applic Recep Conne Limit Sc Home S Near Home Power Supp Current Con Control C Output with Part Nur	ector pin cor see P 1-173 ecification e ngle able tacle ctor ensor essor y Voltage sumption Dutput Logic mber PM2	7 CCWLS Output 8 Open 9 Power Supply (+ 10 10 Orig Output 11 Power Supply (+ 12 12 F.G. standard O.72° HR 10A - 10P - 1: 0.72° 4 are to be discontinuu Mechanical Stoper 1 CCW Limit No	F High Torque 5-Phase Stepping M 0.72° 2S (73) (Hirose Electr t Provided by standard (Ph Residual Voltage 2V or I ad and replaced by next-ge Mechanical Limit t detected (Light In) tested (Light blocked)	C G G G G G G G G G G G G G G G G G G G	*3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *3. The *4.	etic Brake Stee etic Brake Stee (W (W 210 b LLC) per sensor) pr less, 50mA al Voltage 1V	PA pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 (Molex Japan LLC SUNX Co., Ltd.) is or less or less (when loa ducting) pril 2017.	tion H Avis. tion H Avis. set) (2 (Japan Aviation (Japan Aviation (Japan Aviation (Tyco Ele (Tyco Ele	U ligh Speed 2 Servo Motor 8-bit Encoder 2621447/R) able JN4FT043 Dectronics Japa ion.) ming Mei n the CCW direction, to begin the CCW direction, to the CCW direction, to	SJ1-R ndustry, Li I-1 n G.K.) the process of the process of
	es of motor, rical Spo Motor Typ Step A Applic Recept Conne Limit Sc Home S Near Home Power Suppl Current Con Control (Output with Part Nuu g Chart C L C C C C C C C C C C C C C	ector pin cor see P 1-173 ecification e ngle able tacle ctor ensor essor y Voltage sumption Dutput Logic mber PM2	7 CCWLS Output 8 Open 9 Power Supply (+ 10 On8 Output 11 Power Supply (-) 12 F.G. figuration / wiring diag 5-16 ONS C Standard 0.72° HR 10A-10P-1: No C		Control of the second	*3. The	etic Brake Stee etic Brake Stee 210 (W 210) trial Devices p : per sensor) or less, 50mA al Voltage 1V IFF (Non-Con 25 from A e design	PA pping-out Prever a-Step Motor 0.36° hen 1000/R is 43020-1000 (Molex Japan LLC SUNX Co., Ltd.) is or less or less (when los ducting) pril 2017.	tion H Avis.	U ligh Speed 2 Servo Motor 8-bit Encoder 2621447/R) able JN4FT041 Electronics Japa ion.) ming Mei nte CW directon, to is begun based on the CW directon, to is begun based on the CW directon, to	SJI-R Idustry, Lt I-1 n G.K.) thood the process the pr
	es of motor, rical Spo Motor Typ Step A Applic Recept Conne Limit Sc Home S Near Home Power Supp Control C Output with Part Nur g Chart C C C C C C C C C C C C C	ector pin cor see P 1-173 ecification e able able tacle ctor ensor sensor y Voltage sumption Dutput Logic mber PM2 : : : :	7 CCWLS Output 8 Open 9 Power Supply (+ 10 On8 Output 11 Power Supply (-) 12 F.G. figuration / wiring diag 5-16 ONS C Standard 0.72° HR 10A-10P-1: No C		Content of the second	*3. The wus ing for MA With Electromagne 0.72° 5559-06R-: (Molex Japan Provided Provided Provided Provided C5-24V±10% s (15mA or less Output DC30V or 50mA) Residu put Transistor O put Transistor O mut Number PM- Mechanical Limit W Limit nates shown ar are any be appin	above specific above load ca etic Brake Ste Etic Brake Ste (W (W 210 1 LLC) p pr sensor) pr less, 50mA al Voltage 1V FF (Non-Con □25 from A e design rox.	PA pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 Molex Japan LLC SUNX Co., Ltd.) is or less or less or less or less or less or less or less fuen los ducting) oril 2017. Recol Type6 Type11	tion H Avis. tion H Avis. (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4	U ligh Speed 2 Servo Motor 8-bit Encoder 2621447/R) able JN4FT041 Electronics Japa ion.) ming Mei nte CW directon, to is begun based on the CW directon, to is begun based on the CW directon, to	SJI-R Lindusty, Lth I-1 n G.K.) thod the process of the CVMS is cting in the CVMS is
	es of motor, rical Spo Motor Typ Step A Applic Recept Conne Limit Sc Home S Near Home Power Suppl Current Con Control C Output with Part Nur g Chartt C C C C C C C C C C C C C	able able able able able able able able	7 CCWLS Output 8 Open 9 Power Supply (+ 10 On6 Output 11 Power Supply (-) 11 Power Supply (-) 12 F.G. figuration / wiring diag 5-16 Ons C Standard 0.72° HR10A-10P-1: No C	F High Torque 5-Phase Stepping M 0.72° 2S (73) (Hirose Electr Provided by standard (Ph Residual Voltage 2V or I ed and replaced by next-ge Mechanical Limit tested (Light hocked) tested (Light blocked) tested tes	Control of the second	*3. The wus ing for MA With Electromagne 0.72° 5559-06R-: (Molex Japan Provided Provided Provided Provided C5-24V±10% s (15mA or less Output DC30V or 50mA) Residu put Transistor O put Transistor O mut Number PM- Mechanical Limit W Limit nates shown ar are any be appin	ebove specific e above load ca ebove load ca ebove load ca ebove load ca ebove load ca (W 210) (W 210 (W 210) (W 210 (W 210) (W 210 (W 210) (W 210) (W 210 (W 210) (W (PA pping-out Prever a-Step Motor 0.36° hen 1000P/R is 43020-1000 Molex Japan LLC SUNX Co., Ltd.) is or less or less or less or less or less or less or less fuen los ducting) oril 2017. Recol Type6 Type11	tion H Avis.	U ligh Speed 2 Servo Motor 8-bit Encoder 262144P/R) able JN4FT04X n Electronics In der: 16743202 ectronics Japa ion.) ion.) ming Mei nthe CW direction, to is begun based on the CW direction, to is begun based on the CW direction, to is begun based on the TMING Sign based	SJ1-R ndustry, Lt +1 n G.K.)

For CAD data, see the MISUMI website.