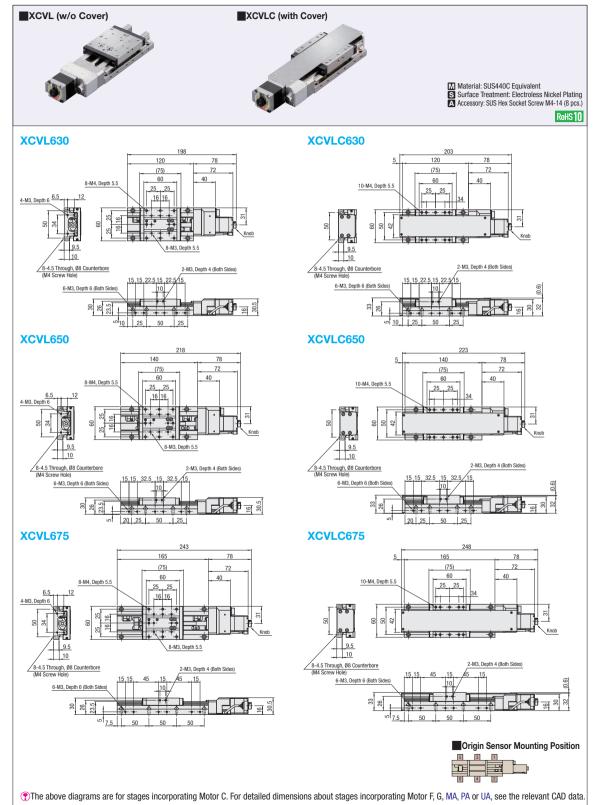
MOTORIZED STAGES X-AXIS LINEAR BALL CAVE-X POSITIONER [Motorized] X-Axis - Linear Ball, CAVE-X POSITIONER Stroke 30~75







XCVL63 (w/c Cover) XCVL65 (w/th Cover) XCVL65 (w/c Cover) XCVL67 (w/c Cover) XCVL65 (w/c Cover) XCVL67 (w/c Cover) XCVL65 (w/c Cover) XCVL65 (w/c Cover) XCVL65 (w/c Cover) XCVL65 (w/c Cover) XCVL65 (w/c Cover) XCVL65 (w/c Cover) (w/c Cover	630 1 (Lead 1mm) 550 2 (Lead 2mm) 5575 With Cover" opti as are for sta Ordering	N (W/o Sensor) (CCW Right) 2 (CCW Left) 3 (Right-center) 4 (Left-center) 5 (CW Right) 6 (CW Left) on is selected	Motor C (Standard) F (High Torque) G (High Resolution) MA (With Electromagnetic Brake) PA (a-Step) UA (Servo Motor, Amplifier)	Cable N (Cable not included (separately sold)) M (For Motor with Electromagnetic Brake) P (For <i>a</i> -Step) U (For Servo Motor)	(mm)	e Travel Distance (mm) 30 (Lead 1mm only)	Weight *2 (kg)	Positioning Accuracy 5μm or less	Pitching	ent Rigidity (Yawing	Rolling	Pitching	Yawing
(w/c Cover) XCVLC65 (with Cover) XCVL65 (w/c Cover) XCVL67 (w/c Cover) XCVL67 (w/c Cover) XCVL67 (w/c Cover) XCVL67 (w/c Cover) XCVL67 (w/c Cover) XCVL67 (w/c Cover) XCVL65 (w/c Cover)	630 1 (Lead 1mm) 550 2 (Lead 2mm) 5575 With Cover" opti as are for sta Ordering	(W/o Sensor) 1 (CCW Right) 2 (CCW Left) 3 (Right-center) 4 (Left-center) 5 (CW Right) 6 (CW Left) on is selected	(Standard) F (High Torque) G (High Resolution) MA (With Electromagnetic Bräke) PA (a-Step) UA (Servo Motor,	(Cable not included (separately sold)) M (For Motor with Electromagnetic Brake) P (For <i>a</i> -Step) U		(Lead 1mm only)	1.28(1.34*1)						
XCVL65 (w/o Cover) XCVL02 (with Cover) XCVL02 (with Cover) XCVL02 (with Cover) *1. When the "\ *2. The value Image of the second second Second	(Lead 1mm) 2 (Lead 2mm) 5 5 5 7 5 With Cover" opti es are for sta 0rdering	2 (CCW Left) 3 (Right-center) 4 (Left-center) 5 (CW Right) 6 (CW Left) on is selected	G (High Resolution) MA (With Electromagnetic Brake) PA (<i>a</i> -Step) UA (Servo Motor,	(For Motor with Electromagnetic Brake) (For α -Step) U									
XCVLC6 (with Cover) XCVL67 (W/o Cover) XCVLC67 (with Cover) *1. When the "\ *2. The value 1 Motor	Contering Contering Contering Contering Contering Contering Contering	(Right-center) 4 (Left-center) 5 (CW Right) 6 (CW Left) on is selected ((With Electromagnetic Brake) PA (α-Step) UA (Servo Motor,	(For a-Step)	60×60		1 40/1 44*1	5μm	0.05	0.05 0.	0.05	5 20" or less	15" or less
(w/o Cover) XCVLC6 (with Cover) *1. When the "V *2. The value Motor	With Cover" opti es are for sta	(CW Right) 6 (CW Left) ion is selected	UA (Servo Motor,		00700	50	1.40(1.44*1)	or less	0.05		0.05		
*2. The value	es are for sta Ordering		/ / / / / / / / / / / / / / / / / / / /	For combination of motors and cables, see the table below.		75	1.54(1.60*1)) 7µm or less					
Motor	Ordering	indun a motor		MA or PA is selected, the dri	iver is included w	ith as the Set. Whe	n the Option UA is se	lected, the Amplifier	is included with	n. The cable is availa	ble for Option M,	P, U and is unavai	able for Opti
	Example	Part N	umber - Lo	ead - Senso 1 - N	or - Mo - C		Cable		Days to Shi		onfigure	Online]
Motor/Ca Applicati	able C	otor ,F,G N MA	tion Table on the type of moto Cable (Not Provided) M	Max. Spectrum Motor C F	ed (mm/sec 30 35 25	on the u	it the speed and po sage conditions. Th e values. Operation	e values shown hi at these values is	ere are MISUM not guarantee	l's ed.			
Table		PA UA	<u>Р</u> U	MA	25					ifications		r	
	le for C, F or G,	see MSCB_ or	n P. 1 -2014-3	PA UA	40			Feed Screv Guide	v	Ball Screw		Ball Screw Ball Guide	Ø8, Lead :
_	le for F or G, se				50				Full	2	μm	1	μm
Connec	ctor Pin C	onfigurati	on Wiring	Diagram				Resolution	Half	1	μm	2	μm
1	_1	0	1 Motor Lead 2 Motor Lead	Blue Red				1	Fine (At 1/2	0) 0. ⁻	1µm	0.1	2µm
2		9	3 Motor Lead	Orar	• ·]		Max. Spee	ł	30m	m/sec	35m	m/sec
3		3	4 Motor Lead 5 Motor Lead	en sk			Positioning repeatability		1		n or less		
	0.00		6 CWLS Outpu		/				Load Capacity		117.6N		
11		7	7 CCWLS Outp 8 Reserved		(Blue)		Lost Motion		_	1µm or less			
4		2	9 Power Supp	(Brown) CWLS			Backlash			1µm or less			
5	6	6	10 ORG Output 11 Power Supp	V (-)	OUT2 (White)		White)	Straightness Parallelism			3µm or less 15µm or less		
			12 F.G.						Motion Parallelism		10µm or less		
The above	e is the conn	ector pin co	nfiguration / wiring	diagram for F, G.				The vi	alues are for	standard motor	's (C).		
Electr	rical Spe	ecificati	ons C	F		G		MA		PA		U	^
Mot	or Option		Standard	High To	rque	High Res	·	With bra	ke	Tuning	ess	High S	
	Туре	•		5-Phase Stepping I	Motor 0.75A/F	Phase (Oriental	Motor Co., Ltd.)			α− Step N	lotor	AC Servo	
Motor	Step Ar	ngle	0.72°	0.72	0	0.3	6°	0.72°	0).36° (When set t		22-bit E (419430	04P/R)
Connector			HR10A-10P-12S (73) (Hirose Electric Co., LTD.) ele						-06R-210 prake side:	43020-1 (MOLE	000	Notor Cable JN Japan Aviation Electr Encoder 16	onics Industry,
	Conneo Limit Se				5559-02P-210	(Tyr			(Tyco Electronic	s Japan G			
	Home Se			Not Provided by stand	dard (Photomi	crosensor PM-			es SUNX Co.	, Ltd.) is availab	le as the opti	on.)	
	Near Home						-						
Sensor	Power Supply	Voltage					DC5~24V =	±10%					
201.001	Current Cons	umption				45mA	or less (15mA o	r less per senso	r)				
	Control O	utput		(v	NPN Open when load cur	Collector Outp rent is 50mA)	ut DC30V, 50mA Residual Voltag	IA or less Residual Voltage 2V or less ige 1V or less (when load current is 16mA)					
	Output L	.ogic			[Detecting (Darl	<): Output Transis	stor OFF (Non-C	onducting)				
Sensors v			24 are to be discor	tinued and replaced by									
	•		Mechanical S		chanical Limit		Mechan !	ical Limit					
Timin	<u> </u>		CCW Limit	Not detected (Light in)	4								
			P CW Limit	Detected (Light blocked) Not detected (Light in)	+ +								

					CW Limit	Stroke Ce	enter CCW Limit	
С	W Direction 🔫			- C	CW Direction	n	Recommer	nded Homing Method
	Reference Position Me	echanical Limit	CW Limit	CCW Limit	Mechanical Limi	it	Type5	After detection is executed in the CCW direction, the process of dete
30	Stroke Center	175	15.5	15.5	17.5		T 0	10 11 F 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

_		Reference Position M	echanical Limit	CW Limit	CCW Limit	Mechanical Limit	Type5	After detection is executed in the CCW direction, the process of detecting in the CW direction is begun based on the CCWLS signal.
	XCVL630	Stroke Center	17.5	15.5	15.5	17.5	Type6	After detection is executed in the CW direction, the process of detecting in the CCW direction is begun based on the CWLS signal.
	XCVL650	Stroke Center	27.5	25.5	25.5	27.5	Type11	After Type 5 is executed, the process of detecting in the CCW direction is begun based on the TIMING signal.
	XCVL675	Stroke Center	40	37.5	37.5	40	Type12	After Type 6 is executed, the process of detecting in the CW direction is begun based on the TIMING signal.
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 The coordinates shown are design values. There may be approx. ±0.5mm misalignment on the physical dimensions.

(Unit: mm)