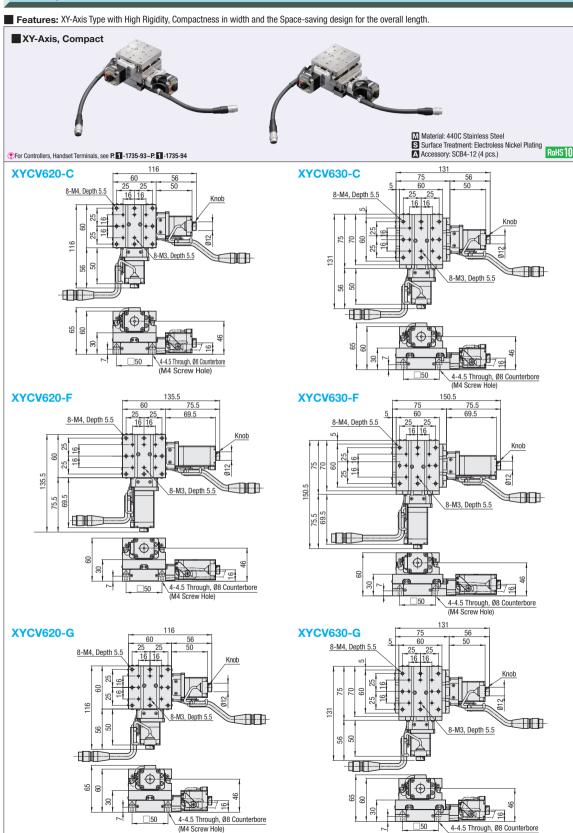


For CAD data, see the MISUMI website.



(M4 Screw Hole)

Part Number				Mechanical Standards			Accuracy Standards		
Туре	No.	Motor	Cable	Stage Surface (mm)	Travel Distance (mm)	weight 2	Unidirectional Positioning Accuracy (for a single axis stage horizontally placed)	Pitching	Yawing
XXCV	YCV 630	F(High Torque)	N(Cable not included (separately sold)) M(For Motor with Electromagnetic Brake) P(For α-xt) ♥For combination of motors and cables, see the table below.	60×60	20	1.6	- 5µm	20''	15''
XICV		G(High Resolution) MA*1(With Electromagnetic Brake) PA*1 (α-Step)		60×70	30	1.8		20	

*1. For motor options MA and PA, the driver is included in the set. With motor options MA and PA, the selectable cable options are M and P. respectively and exclusively. Note that the cable option N is not selectable. *2. The value is for C Type of Motor.

Part Number Motor Cable 🕻 Orderina Example **XYCV620** С Ν -**XYCV630** PA

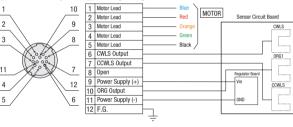


Motor/Cable Application Table Max. Speed

	Motor	Cable		Motor	(mm/sec)	
	C,F,G	N (Not Provided)		С	30	Note that the speed an
	MA	M		F	35	time differ depending of
	PA	Р		G	25	condition of use. The s
	For the cable for C, F or G, see MSCB_ on P. 1-1735-95			MA	25	positioning time are no values but reference values
				PA	40	provided by MISUMI.

	INDIE ITAL THE SPEED AND POSITIONING	aanao	
-	time differ depending on the current condition of use. The speed and positioning time are not guaranteed	Resolution 3	F
-	values but reference values provided by MISUMI.	Max. Spe	ee

Connector Pin Configuration Wiring Diagram



Common Specifications Food Scrow Ball Screw Ø8, Lead 1

1000 000		Ball Gold I Doj Edad I		
Guide		Linear Ball Guide		
	Full	2µm/Pulse (1µm/Pulse) *4		
Resolution	Half	1µm/Pulse (0.5µm/Pulse) *4		
"3	Fine Feed (upon 1/20 partitioned)	0.1µm(0.05µm)		
Max. Speed *5		20mm/sec(30mm/sec)*6		
wax. sp	eed 's	(Pulse Rate: 5kHz)		
Positionin	ng repeatability	±0.5µm		
Load Ca	pacity *7	39.2N 1µm 1µm 3µm		
Lost Mot	tion			
Backlasl	h			
Straight	ness			
Parallelis	sm	15µm		
Motion F	Parallelism	10µm		
🕄 The abov	e specifications are	for a single axis.		
*4 The valu	ues in () are for Mot	listance of stage per one pulse sig tor Option G (High Resolution). beed that can be driven by the		

recommended controller switched to Full Step mode, with the max, load applied. (The value differs depending on the current

- driving controller and the current load.)
- *6 The values in () are for Motor Option F (High Torque). *7 The above load capacity value is for XY-Axis.

Electrical Specifications

Motor		С	F	G	MA	PA			
		Standard	Standard High Torque High Resolution With Electromagnetic Brak		With Electromagnetic Brake	Tuningless			
Motor	Туре		a-Step Motor						
wotor	Step Angle	0.72°	0.72°	0.36°	0.72°	0.36° (When 1000P/R is set)			
Connector	Applicable Receptacle Connector	HR10	HR10A-10P-12S(73)(Hirose Electric Co., LTD.) 5559-06R-210 (Molex Japan LLC)						
	Limit Sensor	Provided							
	Home Sensor	Photomicrosensor: EE-SX4320 (OMRON Corp.)							
	Near Home Sensor	-							
Sensor	Power Supply Voltage	DC5~24V ±10%							
Jenson	Current Consumption	60mA or less in Total							
	Control Output	NPN Open Collector Output DC5~24V, 8mA or less Residual Voltage 0.3V or less (when load current is 2mA)							
	Output Logic								

Sensors with Part Number EE-SX4134 will be discontinued and replaced by next-generation products with Part Number EE-SX4320 from November 2018.

Timing Chart Mechanical Limit Home Position Edge Reverse Side Edge Mechanical Limit XYCV620 CW L imit CCW Limit Mechanical Stopper Not detected (Light in) CCW Limit Detected (Light blocked) Not detected (Light in) Reverse Side Edge Home Position Edge (Stroke Center) Home Sensor Detected (Light blocked) XYCV630 CW Limit CCW Limit Not detected (Light in) CW Limit Detected (Light blocked) \square Reverse Side Edge/ CW Limit Home Position Edge (Stroke Center) CCW Limit Stroke Center CCW Direction (Unit: mm) CW Direction 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 signal. Home Position Other Reference Mechanical Mechanica CCW Limit CW Limit Edge Stroke Center Signal Edge Position Limit Limit Type4 After detection is executed in the CW direction, the process of detecting in the CW direction is begun based on the ORG signal. XYCV620 Homing 11 10 5 10.5 13 Type9 After Type 3 is executed, the process of detecting in the CCW direction is begun based on the TIMING signal. Type 10 After Type 4 is executed, the process of detecting in the CW direction is begun based on the TIMING signal.

XYCV630 Homing 15.5 18 16 The provide the provided and the provided and the provided and the second and The coordinates shown are design values. There may be approx. ±0.5mm misalignment on the physical dimensions.

For the detailed dimensions of CAVE-X Positioner with the Motor PA installed, see the applicable CAD data.