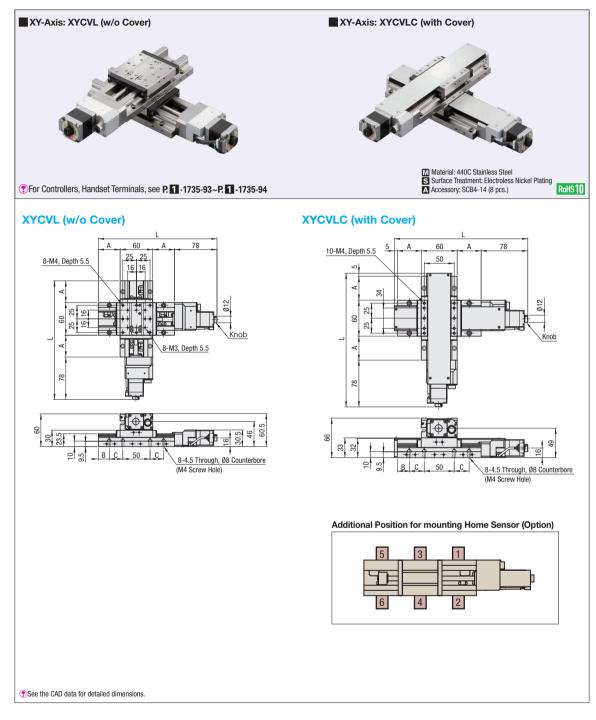
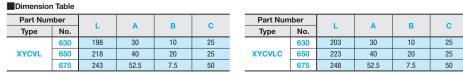
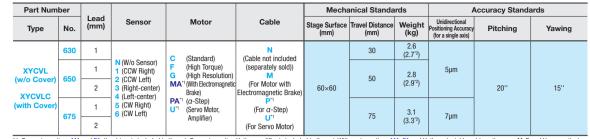


## Features: Have high rigidity and compactness in width. Support 30~75mm of travel distance.







\*1. For motor options MA and PA, the driver is included in the set. For motor option U, the amplifier is included in the set. With motor options MA, PA and U, the selectable cable options are M, P and U, respectively and exclusively. Note that the cable option N is not selectable

Ν

-ii

\*2 Values in ( ) are for stages with Cover The accuracy specifications above are certified for single-axis horizontal mounting orientation



Max. Speed Motor Cable Ν Μ P MA

> PA 40 50 U 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.

> > MOTOR

- Black

(mm/sec)

30

35

25

25

(Brown) I (Black) 2 (White)

## Connector Pin Configuration Wiring Diagram



U

Days to Shin Common Specifications

**Configure Online** 

Feed Screw		Ball Screw Ø8, Lead 1	Ball Screw Ø8, Lead 2		
Guide		Linear Ball Guide			
	Full	2µm	4µm		
Resolution	Half	1µm	2µm		
	Fine (At 1/20)	0.1µm	0.2µm		
Max. Speed		30mm/sec	35mm/sec		
Positioning repeatability*		±0.5µm			
Load Capacity		98N			
Lost Motion*		1µm			
Backlash*		1µm			
Straightness*		Зµm			
Parallelism*		15µm			
Motion Parallelism*		10µm			
* The above ac	curacy standard	l is for a single axis.			

The figures in \_\_\_\_\_ will vary depending on the motor. For details, see page P. 1 -1735-15.

The above is the connector pin configuration / wiring diagram for F, G. For connector pin configuration / wiring for other types of motors, see P. 1-1735-16

Electrical Specifications

Motor

C,F,G

MA

PA

U

For the cable for C, F or G, see MSCB\_ on P. 1-1735-95

Motor			С	1	F	G	MA	PA	U			
		S	tandard	High 1	Torque	High Resolution	With Electromagnetic Brake	Tuningless	High Speed			
	Туре		5-Phase Stepping Motor 0.75A/Phase (Oriental Motor Co., Ltd.) g-Step Motor AC Servo N									
Motor	Step Angle		0.72°	0.7	72°	0.36°	0.72°	0.36° (When 1000P/R is set)	18-bit Encoder (262144P/R)			
Connector	Applicable Receptacle		HR10A-10P-12S (73) (Hirose Electric Co., LTD.)				5559-06R-210	43020-1000	Motor Cable: JN4FT04SJ1-R Japan Aviation Electronics Industry, I			
	Connector					(Molex Japan LLC)	(Molex Japan LLC)	Encoder: 1674320-1 (Tyco Electronics Japan G.I				
	Limit Senso	r	Provided									
Near Hom Power Sup Curr Consur	Home Senso	or	Not Provided by standard (Photomicrosensor PM-L25 (Panasonic Industrial Devices SUNX Co., Ltd.) is available as the option.)									
	Near Home Ser	nsor					-					
	Power Supply Vol	tage	DC5~24V ±10%									
	Current Consumptio	n	45mA or less (15mA per Sensor)									
	Control Outp	ut	NPN Open Collector Output DC30V, 50mA or less Residual Voltage 2V or less (when load current is 50mA) Residual Voltage 1V or less (when load current is 16mA)									
	Output Logi	c	Detecting (Dark): Output Transistor OFF (Non-Conducting)									
Sensors wit	th Part Number PM-[	24 are to be d	liscontinued and	replaced by nex	t-generation prod	ucts with Part Number PN	M25 from April 2017.					
Timing	u Chart			Mechan	ical Limit	Mechan	ical Limit					
CW Limit	CCW Limit	Mec	hanical Stopper	_	1		2					
		<b>n</b> (CW	CCW Limit Not detected (Light in)									
			Detected (Light blocked)									
		CW	Limit Not detecte Detected (L	d (Light in) ight blocked)	+ +							
				-								
(Init: mm) CI	V Direction 🔫				CW Limit S W Direction	Stroke Center CCW Limit						
		Mechanical Limit	CW Limit	CCW Limit	Mechanical Limit	Recomme	ended Method for	<b>Return to Origin</b>				
		52.5	50.5	50.5	52.5	Type5	Detect in the direction of CCW	and perform detected proces	s for CW edge of CWLS sign:			
XCVI 6100	Stroke Center											
XCVL_6100 XCVL 6150	Stroke Center Stroke Center	77.5	75.5	75.5	77.5	Type6	Detect in the direction of UW al	nd perform detected process	for CCW edge of CWLS sign			
			75.5 100.5	75.5	77.5		After finished type5, perform					

The coordinates shown are design values. There may be approx. ±0.5mm misalignment on the

physical dimensions.

For details about Homing, see P. 1-1735-97