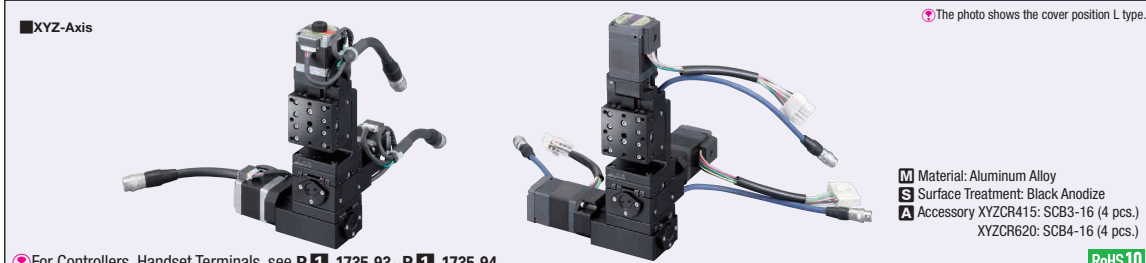


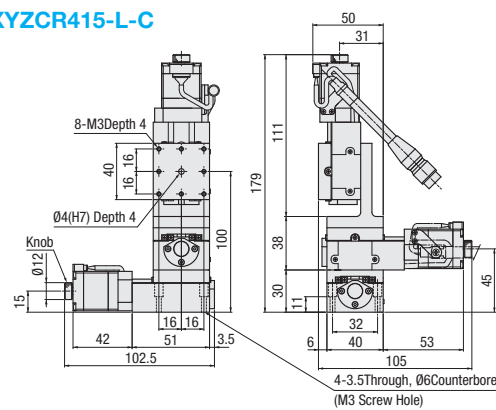


For CAD data, see the MISUMI website.

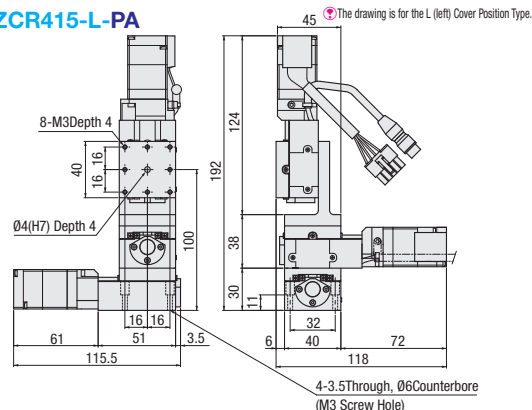
Features: XYZ-Axis Stage excellent in lightweight, compactness and accuracy.



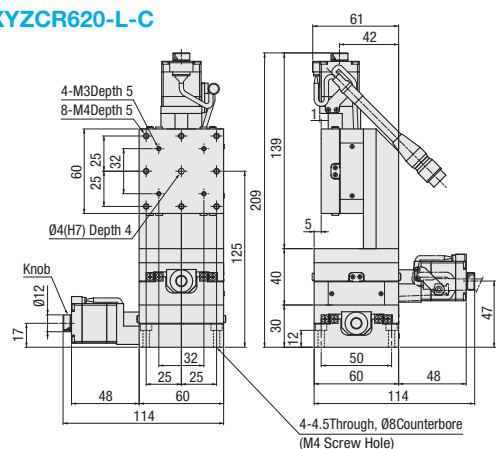
### XYZCR415-L-C



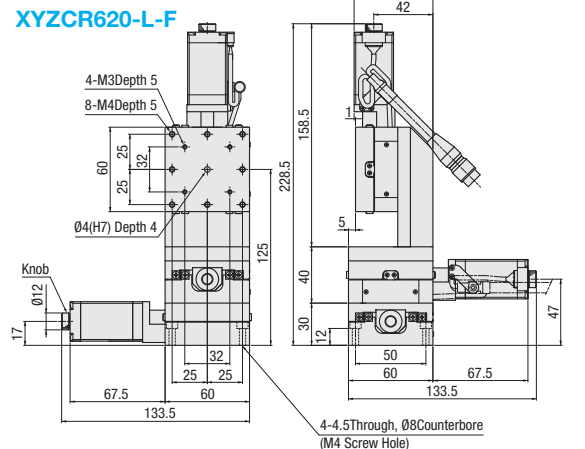
### XYZCR415-L-PA



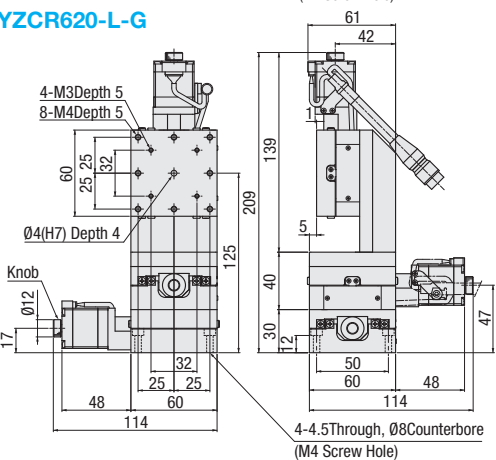
### XYZCR620-L-C



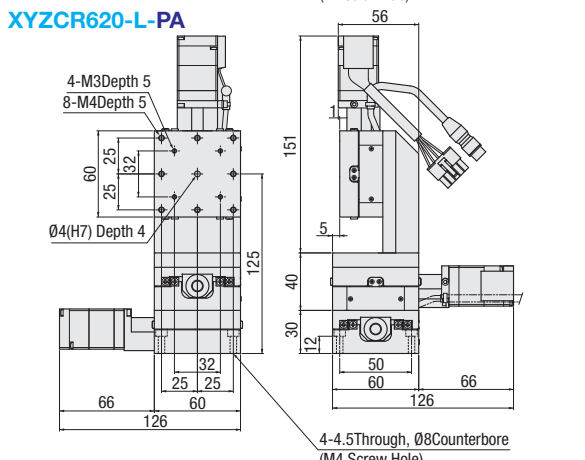
### XYZCR620-L-F



### XYZCR620-L-G



### XYZCR620-L-PA



Part Number	Sensor	Motor	Cable	Mechanical Standards			Accuracy Standards <sup>*3</sup>						
				Stage Surface (mm)	Travel Distance (mm)	Weight (kg)	Unidirectional Positioning Accuracy	Moment Rigidity (1/N·cm)			Pitching	Yawing	
XYZCR	415	L	C (Standard) PA <sup>1</sup> (α-Step)	N (Cable not included (separately sold)) P <sup>2</sup> (Cable for α-Step Motor) * For cables separately sold, see MSCB_option on P. 1-1735-95	40×40	15	1.0	10µm or less	0.33	0.44	0.37	25"	20"
	620	L	C (Standard) F (High Torque) G (High Resolution) PA <sup>1</sup> (α-Step)		60×60	20	2.0	5µm or less / Full Stroke	0.15	0.12	0.07	20"	15"

\*1. When the Motor Option PA is selected, the driver is included with as the Set. The cable is available for Option P and is unavailable for Option N (Cable not included).  
\*2. The value is for C Type of Motor.  
\*3. The above accuracy standards of Unidirectional Positioning Accuracy and Moment Rigidity are for a single axis.

Ordering Example: Part Number - Sensor - Motor - Cable  
XYZCR415 - L - C - N

Days to Ship

Configure Online

### Common Specifications

No.	415	620
Feed Screw	Ball Screw Ø6, Lead 1	Ball Screw Ø8, Lead 1
Guide	Cross Roller Guide	
Positioning repeatability	Within ±0.5µm	Within ±0.3µm
Load Capacity <sup>4</sup>	29.4N	
Lost Motion	1µm or less	
Backlash	0.5µm or less	
Straightness	3µm or less	
Motion Parallelism	10µm or less	

\*4. The above load capacity value is for Z-Axis.

### Max. Speed

No.	Motor	(mm/sec)
415	C	10
	PA	10
620	C	20
	F	20
	G	20
	PA	20

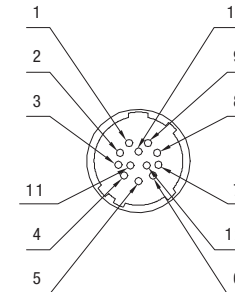
Note that the speed and positioning time differ depending on the current condition of use. The speed and positioning time are not guaranteed values but reference values provided by MISUMI.

### Motor/Cable Application Table

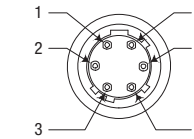
Motor	Cable
C, F, G	N (Not Provided)
PA	P

### Connector Pin Configuration

Motor Code: C (Standard), F (High Torque), G (High Resolution) General Connector Pin Configuration

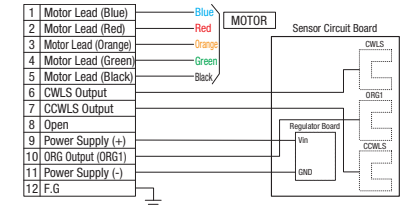


Motor Code: PA (α-Step) Motor Cable Part Number: CC030VA2R2 Sensor Pin Configuration (MISUMI)

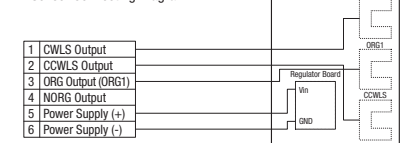


### Wiring Diagram

Motor Code: C (Standard), F (High Torque), G (High Resolution) General Connector Pin Configuration



Motor Code: PA (α-Step) Sensor Connecting Diagram

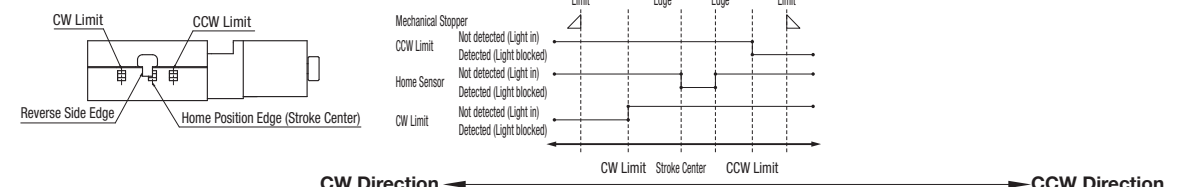


### Electrical Specifications

Motor	Type	C	F	G	PA
		Standard	High Torque	High Resolution	Stepping-up Prevention
Motor	Part Number	C005C-90215P	5-Phase Stepping Motor 0.75A/Phase PK525HPB-C1	PK523HPMB-C1	α-Step Motor ARM24SAK
	Step Angle	0.72°	0.72°	0.36°	0.36° (When 1000P/R is set)
	Driver Part Number	-	-	-	ARD-K
Resolution (Pulse)	Full/Half	2µm/1µm	2µm/1µm	1µm/0.5µm	1µm (When 1000P/R is set)
	Micro Step	0.1µm (upon 1/20 partitioned)	0.1µm (upon 1/20 partitioned)	0.05µm (upon 1/20 partitioned)	-
Connector	Part Number	HR10A-10J-12P (Hirose Electric Co., LTD.)	HR10A-10J-12P (Hirose Electric Co., LTD.)	HR10A-7J-6P (Hirose Electric Co., LTD.)	HR10A-7J-6P (Hirose Electric Co., LTD.)
	Compatible Receptacle Connector	HR10A-10P-12S (Hirose Electric Co., LTD.)	HR10A-10P-12S (Hirose Electric Co., LTD.)	HR10A-7P-6S (Hirose Electric Co., LTD.)	HR10A-7P-6S (Hirose Electric Co., LTD.)
	Limit Sensor	Provided			
Sensor	Home Position Sensor (ORG1)	Provided			
	Slit Home Origin Sensor (ORG2)	Not Provided			
	Part Number	Photomicrosensor: EE-SX4320 (OMRON Corp.)			
	Power Supply Voltage	DC5-24V ±10%			
	Current Consumption	60mA or less			
	Control Output	NPN Open Collector Output DC5-24V, 8mA or less Residual Voltage 0.3V or less (when load current is 2mA) Detecting (Dark): Output Transistor OFF (Non-Conducting)			

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



Travel Distance (mm)	Reference Position	Mechanical Limit	CW Limit	Home Position Edge Stroke Center	Other Signal Edge	CCW Limit	Mechanical Limit
15	Homing Position	8.5	7.7	0	2	7.7	8.5
20	Homing Position	11	10.5	0	5	10.5	11

Homing Routine Above: When MSC1102/112 Series controller is used and when the Homing Routine Type 4 is executed.

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