

RCA2-GS4NA

ROBO Cylinder Mini Rod Type Short-Length Single-guide Type Actuator Width 34 mm 24V Servo Motor
Ball Screw Specification/Lead Screw Specification

Model Description	RCA2	GS4NA	I	20					
	Series	Type	Encoder type	Motor type	Lead	Stroke	Compatible controllers	Cable length	Option
			I: Incremental specification * Model number is "I" when used with simple absolute unit.	20: Servo motor 20W	6: Ball screw 6mm 4: Ball screw 4mm 2: Ball screw 2mm 6S: Lead screw 6mm 4S: Lead screw 4mm 2S: Lead screw 2mm	30: 30mm 50: 50mm	A3: ACON-CYB/PLB/POB A5: ACON-CB/CGB A6: RCON RSEL	N: None P: 1 m S: 3 m M: 5 m X□□: Length Designation	K2: Connector cable exits from the front LA: Power-saving specification

* See page 14 for details on the model descriptions.

Power-saving specification



- (1) The horizontal payload is the value when used in combination with a guide so that a radial load and moment load are not applied to the rod. See P129 for correlation diagrams of the end load and service life when a guide is not installed. Also note that single-guide types cannot be used if a force is applied in the rotating direction. Use double-guide types in these applications.
- (2) The payload is the value when the actuator is operated at an acceleration of 0.3 G (0.2G for lead 2, if used vertically and for lead screw specification). The acceleration limit is the value indicated above.
- (3) If the actuator is used vertically, pay attention to rod contact because the rod will come down when the power is turned off.

Actuator Specifications Table

Leads and Payloads

Model	Motor output (W)	Feed screw	Lead (mm)	Maximum payload		Rated thrust (N)	Positioning repeatability (mm)	Stroke (mm)
				Horizontal (kg)	Vertical (kg)			
RCA2-GS4NA-I-20-6-①-②-③-④	20	Ball screw	6	2	0.5	33.8	±0.02	30 50
RCA2-GS4NA-I-20-4-①-②-③-④			4	3	0.75	50.7		
RCA2-GS4NA-I-20-2-①-②-③-④			2	6	1.5	101.5		
RCA2-GS4NA-I-20-6S-①-②-③-④	20	Lead screw	6	0.25	0.125	19.9	±0.05	30 50
RCA2-GS4NA-I-20-4S-①-②-③-④			4	0.5	0.25	29.8		
RCA2-GS4NA-I-20-2S-①-②-③-④			2	1	0.5	59.7		

Legend ① Stroke ② Compatible Controllers ③ Cable length ④ Option

Stroke and Maximum Speed

Lead	Stroke	
	30 (mm)	50 (mm)
Ball screw	6	270 <220>
	4	200
	2	100
Lead screw	6	220
	4	200
	2	100

* <> Indicates vertical use

(unit: mm/s)

① Stroke list

Stroke (mm)	Standard price	
	Feed screw	
	Ball screw	Lead screw
30	—	—
50	—	—

④ Options

Title	Option code	See page	Standard price
Connector cable exits from the front	K2	—	—
Power-saving specification	LA	—	—

③ Cable Length

Type	Cable symbol	Standard price
Standard type (Robot cable)	P (1m)	—
	S (3m)	—
	M (5m)	—
Special length	X06 (6m) ~ X10 (10m)	—
	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—

* The standard cable for the RCA2 is the robot cable.

Actuator Specifications

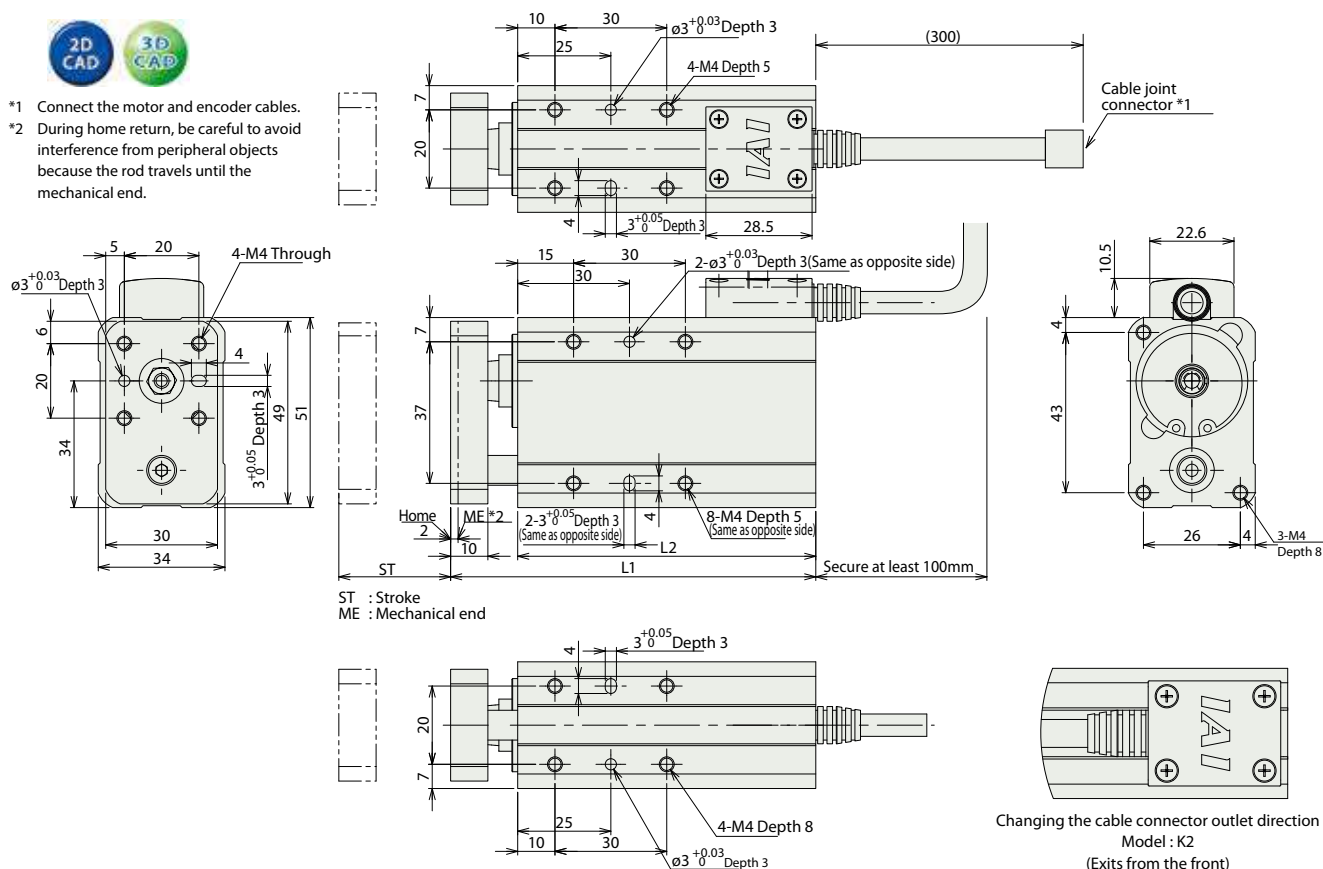
Item	Description
Drive System	Ball screw/Lead screw, ø6mm, rolled C10
Lost motion	Ball screw: 0.1mm or less Lead screw: 0.3 mm or less
Frame	Material: Aluminum, white alumite treated
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service life	Lead screw specification Horizontal specification: 10 million cycles Vertical specification: 5 million cycles

Dimensional Drawings

CAD drawings can be downloaded from the website. www.intelligentactuator.com



- *1 Connect the motor and encoder cables.
*2 During home return, be careful to avoid interference from peripheral objects because the rod travels until the mechanical end.







■ Dimensions and Weight by Stroke

Stroke	30	50
L1	98	118
L2	80	100
Mass (kg)	0.55	0.63

Applicable Controllers

The actuators on this page can be operated by the controllers indicated below. Please select the type depending on your intended use.

Name	External view	Max. number of connectable axes	Power supply voltage	Control method			Network option *1											Maximum number of positioning points	Reference page
				Positioner	Pulse-train	Program	DV	CC	CIE	PR	CN	ML	ML3	EC	EP	PRT	SSN		
ACON-CB/CGB		1	24VDC	● * Option	● * Option	-	●	●	●	●	●	●	●	●	●	-	-	512 (768 for network spec.)	Please contact IAI for more information.
ACON-CYB/PLB/POB		1		● * Option	● * Option	-	-	-	-	-	-	-	-	-	-	-	-	64	
RCON		16 (ML3, SSN, ECM are 8)		-	-	-	●	●	●	●	-	●	●	●	●	●	●	128 (No position data for ML3, SSN, ECM),	
RSEL		8		-	-	●	●	●	●	-	-	-	●	●	●	-	-	36000	

*1 For network abbreviations such as DV and CC, please contact IAI.

More controller info is available in the General Controller Catalog PDF.

