* See page 14 for details on the model descriptions.

CA2-GD3NA ROBO Cylinder Mini Rod Type Short-Length Double-guide Type Actuator Width 28 mm 24V Servo Motor **Ball Screw Specification/Lead Screw Specification** ■ Model Description RCA2 - GD3NA 10 Series **Encoder type** Motor type Lead Stroke Compatible controllers Option Cable length 10: Servo motor 10W 4: Ball screw 4mm 2: Ball screw 2mm 30: 30mm A3: ACON-CYB/PLB/POB 50: 50mm A5: ACON-CB/CGB K2: Connector cable exits from the I: Incremental N: None P: 1 m S: 3 m specification * Model number is "I" when used with 1: Ball screw 1mm A6: RCON M: 5 m 4S: Lead screw 4mm LA: Power-saving RSEL

2S: Lead screw 2mm

1S: Lead screw 1mm

simple absolute unit.

Power-saving specification

specification

X□□: Length Designation



選定上の注意

- (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
- (2) The payload is the value when the actuator is operated at an acceleration of 0.3 G (0.2G for lead 1, 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 Horizontal (kg)	Maximum payload Horizontal (kg) Vertical (kg)		Positioning repeatability (mm)	Stroke (mm)
RCA2-GD3NA-I-10-4-1 - 2 - 3 - 4			4	0.75	0.25	42.7		
RCA2-GD3NA-I-10-2-①-②-③-④	10	Ball screw	2	1.5	0.5	85.5	±0.02	30 50
RCA2-GD3NA-I-10-1-10-2-3-4			1	3	1 170.9			
RCA2-GD3NA-I-10-4S-①-②-③-④		Lead screw	4	0.25	0.125	25.1		
RCA2-GD3NA-I-10-2S-①-②-③-④	10		2	0.5	0.25	50.3	±0.05	30 50
RCA2-GD3NA-I-10-15-①-②-③-④			1	1	0.5	100.5		

■ Stroke and Maximum Speed

Lead	Stroke	30 (mm)	50 (mm)						
Ņ	4	20	00						
Ball screw	2	10	00						
Ba	1	50							
No.	4	20	00						
Lead screw	2	10	00						
Leg	1	5	0						

(unit: mm/s)

① Stroke list

Churchen	Standard price								
Stroke (mm)	Feed screw								
(111111)	Ball screw	Lead screw							
30	_	_							
50	_	_							

Legend ① Stroke ② Compatible Controllers ③ Cable length ④ Option

4 Options

Title	Option code	See page	Standard price
Connector cable exits from the front	К2	_	_
Power-saving specification	LA		_

③Cable Length

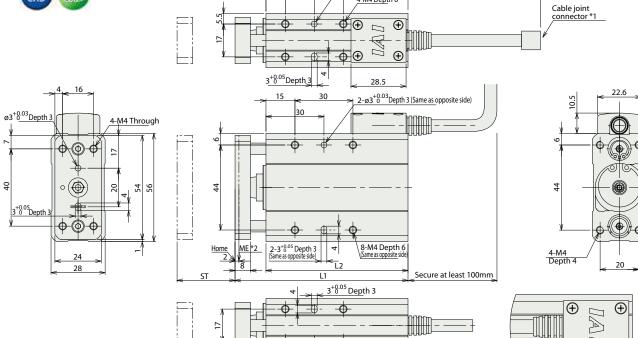
Туре	Cable symbol	Standard price
Character day	P (1m)	_
Standard type (Robot cable)	S (3m)	_
(RODOL Cable)	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_

^{*} The standard cable for the RCA2 is the robot cable.

Actuator Specifications

Actuato	r Specifications					
	Item	Description				
Drive System		Ball screw/Lead screw, ø4mm, rolled C10				
Lost motion		Ball screw: 0.1 mm or less Lead screw: 0.3 mm or less				
Frame		Material: Aluminum, white alumite treate				
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 www.intelligentactuator.com



ø3^{+0.03}Depth 3

4-M4 Depth 6

<u>4-M4 De</u>pth 6

≯ ∖ø3⁺0.03 Depth 3

(300)

*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.

ST: Stroke ME: Mechanical end

Weight by Stroke									
Stroke 30 50									
L1	89.5	109.5							
L2 73.5 93.5									
Mass (kg)	0.41	0.48							

■ Dimensions and

Changing the cable connector outlet direction Model: K2

(Exits from the front)

* Rotate 180° relative to the standard specification.

Applicable Controllers

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

			Power					Cor	ntrol r	neth	od									Reference page
Name	External view	Max. number of connectable axes	supply voltage	Positioner	Pulse- train	Program	DV	CC	CIE	DD			k opti			DOT	CCN	ECM	Maximum number of positioning points	
			voitage		train		υv	CC	CIE	PK	CN	IVIL	ML3	EC	EP	PKI	SSN	ECIVI		
ACON-CB/CGB	Ð	1		● * Option	● * Option	-	•	•	•	•	•	•	•	•	•	•	-	-	512 (768 for network spec.)	
ACON-CYB/PLB/POB		1		● * Option	• * Option	-	-	-	-	-	-	-	-	-	-	-	-	-	64	Please contact
RCON	HOM IL	16 (ML3,SSN, ECM are 8)	24VDC	-	-	-	•	•	•	•	-	-	•	•	•	•	•	•	128 (No position data for ML3, SSN, ECM),	IAI for more information.
RSEL	THE R.	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.

