CA2-GS3NA

ROBO Cylinder Mini Rod Type Short-Length Single-guide Type Actuator Width 28 mm 24V Servo Motor **Ball Screw Specification/Lead Screw Specification**

■ Model Description

* See page 14 for details on the model descriptions.

Series

RCA2 - GS3NA

Encoder type

I: Incremental

specification * Model number is "I" when used with

simple absolute unit.

10

Motor type

10: Servo motor 10W 4: Ball screw 4mm 2: Ball screw 2mm

Lead

1: Ball screw 1mm 4S: Lead screw 4mm 2S: Lead screw 2mm 1S: Lead screw 1mm Stroke Compatible controllers

30: 30mm A3: ACON-CYB/PLB/POB 50: 50mm A5: ACON-CB/CGB A6: RCON RSEL

Cable length

N: None P: 1 m S: 3 m M: 5 m X□□: Length Designation

Option K2: Connector cable exits from the

LA: Power-saving specification

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 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

Actuator Specifications Table

■ Leads and Payloads

Model	Motor output (W)	Feed screw	Lead (mm)	Maximum Horizontal (kg)	payload Vertical (kg)	Rated thrust (N)	Positioning repeatability (mm)	Stroke (mm)
RCA2-GS3NA-I-10-4-①-②-③-④			4	0.75	0.25	42.7		
RCA2-GS3NA-I-10-2-①-②-③-④	10	Ball screw	2	1.5	0.5	85.5	±0.02	30 50
RCA2-GS3NA-I-10-1-①-②-③-④			1	3	1	170.9		
RCA2-GS3NA-I-10-4S-①-②-③-④			4	0.25	0.125	25.1		
RCA2-GS3NA-I-10-2S-①-②-③-④	10	Lead screw	2	0.5	0.25	50.3	±0.05	30 50
RCA2-GS3NA-I-10-1S-①-②-③-④			1	1	0.5	100.5		

■ Stroke and Maximum Speed

$\overline{}$	Stroke	20	50
Lead	_	30 (mm)	50 (mm)
W	4	20	00
Ball screw	2	10	00
Ba	1	5	0
Ma	4	20	00
Lead screw	2	10	00
Les	1	5	0

(unit: mm/s)

① Stroke list

Chualia	Standa	rd 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

Type	Cable symbol	Standard price
Ct d d. t	P (1m)	_
Standard type (Robot cable)	S (3m)	_
(NODOL CADIE)	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	V4.5 (1.5) V20 (20)	

X16 (16m) ~ **X20** (20m) *The standard cable for the RCA2 is the robot cable.

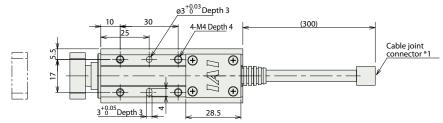
Actuato	r Specifications						
	Item	Description					
Drive System		Ball screw/Lead screw, ø4mm, rolled C10					
Lost motion		Ball screw: 0.1mm or less Lead screw: 0.3 mm or less					
Frame		Material: Aluminum, white alumite treate					
Ambient ope	rating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)					
Service life	Lead screw specification	Horizontal specification: 10 million cycles, Vertical specification: 5 million cycles					

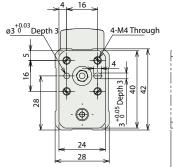
Dimensional Drawings

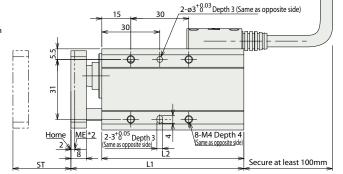
www.intelligentactuator.com

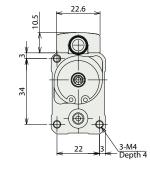


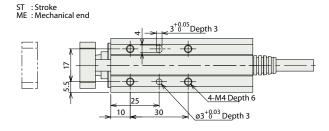
- *1 Connect the motor and encoder cables.
- *2 During home return, be careful to avoid interference from peripheral objects because the rod travels until the mechanical end.

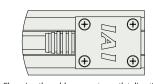












Changing the cable connector outlet direction Model: K2 (Exits from the front)

* Rotate 180° relative to the standard specification.

■ Dimensions and Weight by Stroke

Treight by bulone										
Stroke	30	50								
L1	89.5	109.5								
L2	73.5	93.5								
Mass (kg)	0.32	0.36								

Applicable Controllers

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

	F. A	Man annula and	Power					Cor	trol r	neth	od								Mandanian and an af	D-f
Name	External view	Max. number of connectable axes	supply	Positioner	Pulse-	Program					Ne	twor	k opti	on *1					Maximum number of positioning points	Reference page
	VIEW	Connectable axes	voltage	rositionei	train	Flogram	DV	CC	CIE	PR	CN	ML	ML3	EC	EP	PRT	SSN	ECM	positioning points	page
ACON-CB/CGB	Will have	1		● * Option	* Option	-	•	•	•	•	•	•	•	•	•	•	-	-	512 (768 for network spec.)	
ACON-CYB/PLB/POB		1	24VDC	* Option	● * Option	-	-	-	-	-	-	-	-	-	-	-	-	-	64	Please contact
RCON	HEM IL	16 (ML3,SSN, ECM are 8)		-	-	-	•	•	•	•	-	-	•	•	•	•	•	•	128 (No position data for ML3, SSN, ECM),	IAI for more information.
RSEL	ONE TO	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.

