RCA2-GS3N ROBO Cylinder Mini Rod type Short Length Single-Guide Free Mount type Actuator Width 28mm 24V servo motor Lead screw specification ■Model Description RCA2 – GS3N 10 30 45: Lead screw 4mm 25: Lead screw 2mm 15: Lead screw 1mm Following options Refer to price table 30: 30mm A1: ACON RACON ASEL P: 1m S: 3m specification * Model number is "I" when used with simple absolute unit. A3: ASEP M: 5m X□□: Length Designation *See page 11 for details on the model descriptions.



- The horizontal payload is the value when used in combination with the guide so that a radial load and moment load are not applied to the rod.
- (2) See P99 for correlation diagrams of the tip load and service life when a guide is not installed.
- (3) The load capacity is the value when operated at 0.2G acceleration. Acceleration limit is value indicated above.

Actuator Specification Table

■Leads and Payloads

Model	Motor output (W)	Feed screw	Lead (mm)	Maximun Horizontal (kg)	n payload Vertical (kg)	Rated thrust (N)	Positioning Repeatability (mm)	Stroke (mm)
RCA2-GS3N-I-10-4S-30-①-②-③			4	0.25	0.125	25.1		
RCA2-GS3N-I-10-2S-30-11-2-3	10	Lead screw	2	0.5	0.25	50.3	±0.05	30 (Fixed)
RCA2-GS3N-I-10-1S-30-①-②-③			1	1	0.5	100.5		

■Stroke and Maximum Speed

Lead	Stroke	30 _(mm)
W	4	200
Lead screw	2	100
Le	1	50
		(Unit = mm/s)

Legend ① Compatible Controllers ② Cable length ③ Option

Price list (by stroke)

	Type code
	GS3N
Stroke	Encoder type
(mm)	Incremental
	Feed screw
	Lead screw
30	_

(2) Cable length (price chart)

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

- $\ensuremath{^{*}}$ Robot type cable comes as standard with the RCA2 actuator.
- * See page 113 for maintenance cables.

(3) Option price list (standard price)

Title	Option code	See page	Standard price
Change the cable connector outlet direction	К2	→P38	-

Actuator Specification

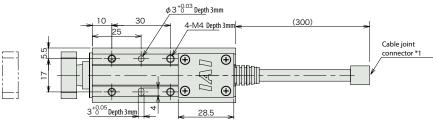
ltem	Description
Drive System	Lead screw, φ4mm, rolled C10
Backlash	0.3mm or less (initial value)
Frame	Material: Aluminum, white alumite treated
Ambient operating temperature, humidity	0 to 40 °C, 85% RH or less (no condensation)
Service life	Horizontal specification: 10 million cycles, Vertical specification: 5 million cycles

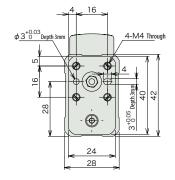
Dimensional Drawings

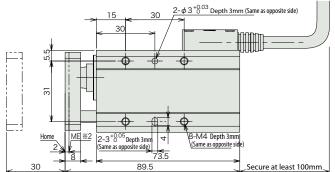


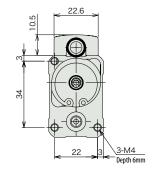
- *1 Connect the motor and encoder cables. See page 113 for cable details.
 - *2 During home return, be careful to avoid interference from peripheral objects because the slider travels until the mechanical end.

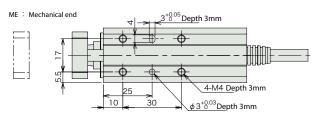


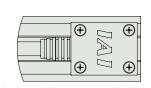












Changing cable connector outlet direction (Model: K2)

* Rotate 180° relative to standard specification.

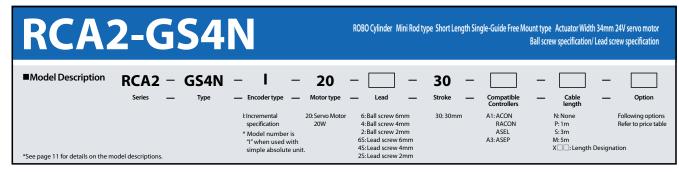
■Dimensions and Weight by Stroke					
Stroke	30				
Mass (kg)	0.32				

Compatible Controllers RCA2 series actuators can be operated with the controllers indicated below. Select the type according to your intended application ASEP-C-1000I-NP-2-0 Simple controller capable of operating with the same signal as the solenoid valve Supports the use of both the Solenoid →P101 valve 3 points single solenoid and the double type solenoid types Simple Absolute type makes the return to home unnecessary. ASEP-CW-10I-NP-2-0 DC24V See P109. Up to 512-points positioning possible By attaching a simple absolute ACON-□-10I-NP-2-0 Positioner 512 points (Note 1) type unit (sold separately), the return See the to home becomes unnecessary. ROBO Cylinder general Programmable type Capable of operating up to 2 axes catalog. Program ASEL-C-1-10I-NP-2-0 1500 points Simple Absolute unit cannot type

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(Note 1) ACON can be used with C/CG/CY/PL/PO/SE type. Also, ROBONET can be used.

RCA2-GS3N





- (1) The horizontal payload is the value when used in combination with the guide so that a radial load and moment load are not applied to the rod.
- (2) See P99 for correlation diagrams of the tip load and service life when a guide is not installed.
- (3) The load capacity is the value when operated at 0.2G acceleration. Acceleration limit is value indicated above.

■Leads and Payloads

Model	Motor output (W)	Feed screw	Lead (mm)	Maximur Horizontal (kg)	vertical (kg)	Rated thrust (N)	Positioning Repeatability (mm)	Stroke (mm)
RCA2-GS4N-I-20-6-30- ① -② -③			6	2	0.5	33.8		
RCA2-GS4N-I-20-4-30- ① -② -③	20	Ball screw	4	3	0.75	50.7	±0.02	30 (Fixed)
RCA2-GS4N-I-20-2-30- ① -② -③			2	6	1.5	101.5		
RCA2-GS4N-I-20-6S-30- ① -② -③			6	0.25	0.125	19.9		
RCA2-GS4N-I-20-4S-30- ① -② -③	20	Lead screw	4	0.5	0.25	29.8	±0.05	30 (Fixed)
RCA2-GS4N-I-20-2S-30- ① -② -③			2	1	0.5	59.7		
Legend ①Compatible Controllers ②Cable length ③Option								

■Stroke and Maximum Speed

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

*< > Indicates Vertical Use

(Unit = mm/s)

Price list (by stroke)

	Type code				
	GS4N				
Stroke	Encoder type				
(mm)	Incremental				
	Feed screw				
	Ball screw	Lead screw			
30	_	_			

(2) Cable length (price chart)

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

- * Robot type cable comes as standard with the RCA2 actuator.
- * See page 113 for maintenance cables.

(3) Option price list (standard price)

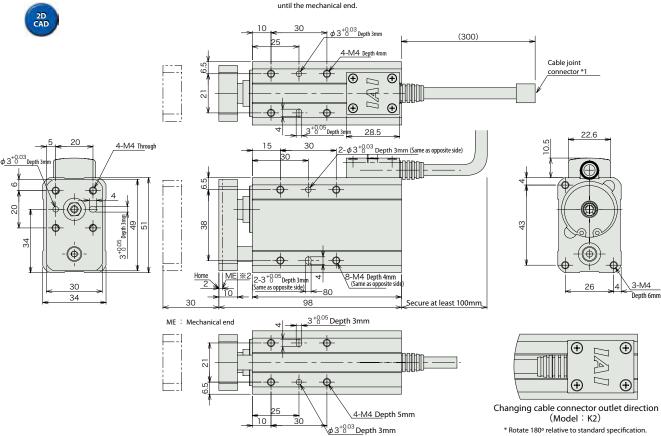
Title	Option code	See page	Standard price
Change the cable connector outlet direction	К2	Please refer to P40	_

Actuator Specification		
Item	Description	
Drive System	Ball screw/Lead screw, φ6mm, rolled C10	
Backlash	Ball screw: 0.1mm or Less/Lead screw: 0.3mm or less (initial state)	
Frame	Material: Aluminum, white alumite treated	
Ambient operating temperature, humidity	0 to 40 °C, 85% RH or less (no condensation)	
Service life	Horizontal specification: 10 million cycles, Vertical specification: 5 million cycles	

Dimensional Drawings

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- *1 Connect the motor and encoder cables. See page 113 for cable details.
 - *2 During home return, be careful to avoid interference from peripheral objects because the slider travels



■ Dimensions and Weight by Stroke

* Rotate 180° relative to standard specification.

Stroke	30
Mass (kg)	0.55

Compatible Controllers RCA2 series actuators can be operated with the controllers indicated below. Select the type according to your intended application. Power-supply ASEP-C-20I-NP-2-0 Simple controller capable of operating w ith the same signal as the solenoid valve Solenoid Supports the use of both the →P101 valve 3 points single solenoid and the double type solenoid types Simple Absolute type makes the return to home unnecessary. ASEP-CW-20I-NP-2-0 DC24V See P109. Up to 512-points positioning possible By attaching a simple absolute ACON-□-20I-NP-2-0 Positioner 512 points (Note 1) type unit (sold separately), the return See the to home becomes unnecessary. ROBO Cylinder general Programmable type Capable of operating up to 2 axes Simple Absolute unit cannot catalog. Program ASEL-C-1-20I-NP-2-0 1500 points type be used.