RCA2-SA2AC

ROBO Cylinder, Mini Slider Type, Motor Unit Coupled, Actuator Width 20mm, 24V Servo Motor, Ball Screw Specification

Model Specification Items

RCA2-SA2AC-— Encoder type — Motor type —

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SW

I: Incremental

The Simple absolute

encoder is also considered type "I".

4:4mm

2:2mm

1:1mm

Stroke

25: 25mm

100: 100mm

(25mm pitch increments)

A3 Applicable controller

A3:ASEP

MSFP

Cable length N: None

— Options See Options below.

P: 1m S: 3m

M:5m X□□: Custom length

CE RoHS

* See page Pre-47 for details on the model descriptions.



Technical References



Notes or

- (1) The load capacity is based on operation at an acceleration of 0.3G. These values are the upper limits for the acceleration.
- (2) Take note that, since there is no brake, the slider may come down when the power is turned off if the actuator is used vertically.
- (3) See page A-71 for details on push motion.

Actuator Specifications ■ Leads and Payloads

Feed Lead Max. Load Capacity Rated Stroke Model number output (W) thrust (N) (mm) RCA2-SA2AC-I-5-4-1 -A3-2 -3 4 0.5 0.25 21.4 Ball 25~100 RCA2-SA2AC-I-5-2-①-A3-②-③ 2 0.5 42.3 ±0.02 1 screw RCA2-SA2AC-I-5-1-①-A3-②-③ 2 85.5

■ Stroke and Maximum Speed Stroke (mm) (mm) 4 180 200 screw 2 100 Ball 1 50

(Unit: mm/s)

① Stroke

①Stroke	
①Stroke (mm)	Standard price
25	_
50	_
75	_
100	_

②Cable Lengt	h

Туре	Cable symbol	Standard price
Ct d d	P (1m)	_
Standard (Robot Cables)	S (3m)	_
(NODOL Cables)	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. * See page A-59 for cables for maintenance.

③ Options Option code | See page | Standard price Non-motor end specification

Actuator Specifications

ltem	Description			
Drive System	Ball screw, ø4mm, rolled C10			
Lost Motion	0.1mm or less (initial value)			
Base	Material: Aluminum, white alumite treated			
Guide	Linear guide			
Allowable dynamic moment (*)	Ma: 0.22 N·m, Mb: 0.31 N·m, Mc: 0.28 N·m			
Allowable overhang	40mm or less in Ma, Mb and Mc directions			
Ambient Operating Temp./Humidity	0 to 40°C, 85% RH or less (Non-condensing)			
Service Life	5,000km			

(*) Based on 5,000km travel life.

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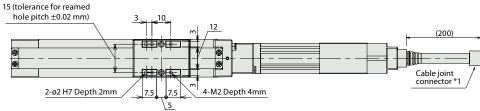
For Special Orders

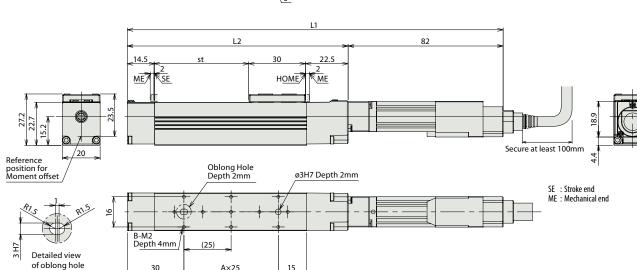






- *1 Connect the motor-encoder integrated cable here. See page A-59 for details on cables.
 *2 During the homing operation, the slider moves to actuator's mechanical end, and then reverses.
 Therefore, watch for any interference with its surroundings.





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■ Dimensions and Mass by Stroke

- Difficultions and Mass by Stroke						
Stroke	25	50	75	100		
L1	174	199	224	249		
L2	92	117	142	167		
A	1	2	3	4		
В	4	6	8	10		
Weight (kg)	0.2	0.22	0.23	0.25		

Applicable Controllers

RCA2 series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

A×25

			T					
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page
Solenoid valve type		ASEP-C-5SI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P547
Solenoid valve multi-axis type PIO specification		MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected		DC24V	1A rated 2A max.		, DEC2
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points				→ P563

^{*}① indicates I/O type (NP/PN). *① indicates number of axes (1 to 8). *⑩ indicates field network specification symbol.