

# RCA-SRGS4R

Robo Cylinder, Rod Type with Single Guide, Actuator Width 45mm, Servo Motor, Short-Length Model, Side-Mounted Motor

Model Specification Items	<b>RCA</b>	<b>— SRGS4R</b>	<b>— I</b>	<b>— 20</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
	Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controller	Cable length	Options	
			I: Incremental * The Simple absolute encoder is also considered type "I".	20:20W Servo motor	5 : 5mm 2.5:2.5mm	20: 20mm { 200:200mm (*Set in 50mm increments over 100mm)	A1:ACON ASEL A3:AMEC ASEP MSEP	N: None P: 1m S: 3m M:5m X□□: Custom Length	See Options below.	

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



Power-saving



Technical References Appendix P.5



- (1) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2.5mm-lead model, or when used vertically). This is the upper limit of the acceleration.
- (2) The values for the horizontal load capacity reflect the use of an external guide. See the technical resources (page A-111) for the allowable weight using the supplied guide alone.
- (3) See page A-71 for details on push motion.

## Actuator Specifications

### Leads and Payloads

(Note A) 50mm increments over 100mm.

Model number	Motor output (W)	Lead (mm)	Max. Load Capacity		Rated thrust (N)	Stroke (mm)
			Horizontal (kg)	Vertical (kg)		
RCA-SRGS4R-I-20-5-①-②-③-④	20	5	9 (Note1)	2	41	20~200 (every 10mm) (Note A)
RCA-SRGS4R-I-20-2.5-①-②-③-④		2.5	18 (Note1)	5.5	81	

### Stroke and Maximum Speed

Stroke / Lead	20~200 (every 10mm)
	5
2.5	125

(Unit: mm/s)

Code explanation ① Stroke ② Applicable controller ③ Cable length ④ Options \*See page A-71 for details on push motion.

### ① Stroke

① Stroke (mm)	Standard price
20~50	—
60~100	—
150	—
200	—

### ③ Cable Length

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

\* The cable is a motor-encoder integrated cable, and is provided as a robot cable.  
\* See page A-59 for cables for maintenance.

### ④ Options

Name	Option code	See page	Standard price
Brake	<b>B</b>	→ A-42	—
Flange bracket (back)	<b>FLR</b>	→ A-46	—
Foot bracket 2 (right/left side mounting)	<b>FT2/FT4</b>	→ A-50	—
Guide mounting direction	<b>GS2 ~ GS4</b>	→ A-50	—
Power-saving	<b>LA</b>	→ A-52	—
Non-motor end specification	<b>NM</b>	→ A-52	—

\*The brake is available for strokes of 70mm or more.  
\*Please be sure that the mounting direction of the guide is specified in the product name.  
\*The guide and the foot bracket cannot be mounted in the same direction.  
(Combination of GS2 and FT4, GS4 and FT2 can be mounted. The foot bracket cannot be mounted in the GS3 direction.)

## Actuator Specifications

Item	Description
Drive System	Ball screw, ø8mm, rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Rod diameter	ø22mm
Non-rotating accuracy of rod	±0.05 deg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

