RCA-SRGD4R

Type

ROBO Cylinder Rod Type with Double Guide 45mm Width Servo Motor Short-Length Model

■ Configuration: RCA -SRGD4R -

20 Motor

20 : 20W Servo Motor

Encoder

absolute encoder is also considered

I: Incremental * The Simple

5mm 20:20mm

over 100mm

Compatible Controller A1 : ACON RACON 200 : 200mm (50mm pitch increments) Set in 50mm increments A3

ASEL

: AMEC

Cable Length Option See Options below

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

Power-saving



Technical References





- (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-83) for the allowable weight using the supplied guide alone.

Actuator Specifications

■ Lead and Load Capacity

Model	Lead (mm)	Max. Load Horizontal (kg)		Rated Thrust (N)	Stroke (mm)		
RCA-SRGD4R-I-20-5-①-②-③-④	5	9	2	41	20~200 (10mm		
RCA-SRGD4R-I-20-2.5-①-②-③-④	2.5	18	5.5	81	increments) (Note 1)		
Legend ①Stroke ②Compatible controllers ③Cable length ④Options (Note 1) 50mm increments over 100mm.							

	a maximum opeca
Stroke Lead	$20 \sim 200$ (10mm increments)
5	250
2.5	125
	(Unit: mm/s)

■ Stroke and Maximum Speed

① Stroke List

Stroke (mm)	Standard Price
20~50	-
60~100	-
150	-
200	-

Туре	Cable Symbol	Standard Price
Standard (Robot Cables)	P (1m)	_
	S (3m)	_
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special Lengths		_
	X16 (16m) ~ X20 (20m)	_
	Standard (Robot Cables)	Standard (Robot Cables) M (5m) M (5m) Special Lengths X11 (11m) ~ X15 (15m)

- * The cable is a motor-encoder integrated cable, and is provided as a robot cable.
- * See page A-39 for cables for maintenance.

3 Cable List

Actuator Specifications

4 Option List			
Name	Option Code	See Page	Standard Price
Brake	В	→ A-25	-
Foot bracket 1 (base mounting)	FT	→ A-29	-
Reversed-home	NM	→ A-33	_

- * The brake is available for strokes of 70mm or more.
- * The foot bracket cannot be mounted on the side.

Item	Description					
Drive System	Ball screw ø8mm C10 grade					
Positioning Repeatability	±0.02mm					
Lost Motion	0.1mm or less					
Rod Diameter	ø22 mm					
Non-rotating accuracy of rod	±0.05 deg					
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)					



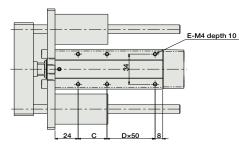
CAD drawings can be downloaded from IAI website. www.intelligentactuator.com (音 P. A-9 For Special Orders Home 2D CAD st+60 5 (shaft overhang at SE) 3 (Amount of shaft movement from ME to home) Cable joint connector (*1) -- 절 --5.5 Secure at least 100 (210) E-M4 depth 10 0 4-M5 (same with opposite side) (for mounting the actuator) 4-M6 depth 12 **(Heap)** @3 15 8-M5 depth 12 (for mounting work piece) 20

* The exterior dimensions for the brake-equipped model is no different than the standard model.

However, 70mm is the minimum stroke of the brake-equipped models.

(i.e. The brake is not compatible at 60mm strokes and under.)

Dimensions



ST : Stroke SE : Stroke end ME : Mechanical end

- (*1) The motor-encoder cable is connected here. See page A-39 for details on cables.
- (*2) When homing, the rod moves to the mechanical end position; therefore, please watch for any interference with the surrounding objects.

■ Dimensions/	Weigl	nt by	Strok	e (A	dd 0.2kg	for brai	ke equip	ped)	
Stroko	20	20	40	50	60	70	90	00	ā

Stroke	20	30	40	50	60	70	80	90	100	150	200
L	126.5	136.5	146.5	156.5	166.5	176.5	186.5	196.5	206.5	256.5	306.5
Α	84	94	104	114	124	134	144	154	164	214	264
В	62	72	82	92	102	112	122	132	142	192	242
С	30	40	50	60	70	30	40	50	60	60	60
D	0	0	0	0	0	1	1	1	1	2	3
E	4	4	4	4	4	6	6	6	6	8	10
Weight (kg)	1.42	1.49	1.56	1.64	1.71	1.79	1.86	1.94	2.01	2.38	2.75

② Compatible Controllers

The RCA series actuators can operate with the controllers below. Select the controller according to your usage

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Solenoid Valve Type		AMEC-C-20SI①-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P477
Solellold valve type	1	ASEP-C-20SI①-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	→ P487
Splash-Proof Solenoid Valve Type	1	ASEP-CW-20SI①-NP-2-0	No homing necessary with simple absolute type.				ı	→ P487
Positioner Type		ACON-C-20SI①-NP-2-0	Positioning is possible for up to 512 points 512 points	512 points			-	
Safety-Compliant Positioner Type		ACON-CG-20SI①-NP-2-0	r ostaoring is possible for up to 012 points		DC24V	1.7A rated 5.1A peak	-	→ P535
Pulse Train Input Type (Differential Line Driver)		ACON-PL-20SI①-NP-2-0	Pulse train input type with differential line driver support	(-)			-	
Pulse Train Input Type (Open Collector)		ACON-PO-20SI①-NP-2-0	Pulse train input type with open collector support	(-)			-	
Serial Communication Type		ACON-SE-20SI①-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RACON-20S①	Dedicated to field network	768 points			-	→ P503
Program Control Type		ASEL-C-1-20SI①-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P567

* This is for the single-axis ASEL.

Servo Motor (24V)

 $^{^{\}star}$ 1 is a placeholder for the code "LA" if the power-saving option is specified.