## RCA-SA4D ROBO Cylinder Slider Type 40mm Width 24V Servo Motor Coupled

RCA - SA4D -Configuration: 20 Motor Cable Length

> I: Incremental A:Absolute 20: 20W Servo

\* Absolute encoder models can only use ASEL.

When the actuator is used with the simple absolute encoder, the model is considered an incremental m \* See page Pre-35 for explanation of each code that makes up the configuration name

10:10mm 50: 50mm 5: 5mm 2.5:2.5mm

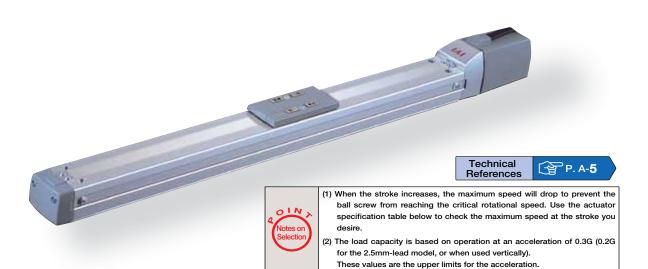
300:300mm (50mm pitch A1: ACON RACON ASEL A3: AMEC

N: None
P: 1m
S: 3m
M: 5m
X : Custom Length
R: Robot Cable

Power-saving

(Unit: mm/s)

See Options below



## Actuator Specifications ■ Lead and Load Capacity ■ Stroke and Maximum Speed Max. Load Capacity 50 ~ 300 Lead Rated Stroke RCA-SA4D-① -20-10-② -③ -④ -⑤ 665 10 19.6 10 4 1 $50 \sim 300$ RCA-SA4D- 1 -20-5- 2 - 3 - 4 - 5 20 5 6 2.5 39.2 (50mm 5 330 RCA-SA4D-①-20-2.5-②-③-④-⑤ 4.5 78.4 2.5 165

Encoder & Stroke List						
② Stroke (mm)	Standard Price					
	① Encoder Type					
	Incremental	Absolute				
	I	Α				
50	=	-				
100	=	-				
150	=	-				
200	=	-				
250	=	=				
300	-	_				

Legend ① Encoder ② Stroke ③ Compatible controller ④ Cable length ⑤ Option

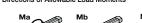
Gable List							
Туре	Cable Symbol	Standard Price					
Standard	P (1m)	_					
	<b>S</b> (3m)						
	<b>M</b> (5m)	_					
	X06 (6m) ~ X10 (10m)	_					
Special Lengths	X11 (11m) ~ X15 (15m)	_					
	X16 (16m) ~ X20 (20m)	_					
	R01 (1m) ~ R03 (3m)	_					
	R04 (4m) ~ R05 (5m)	_					
Robot Cable	R06 (6m) ~ R10 (10m)	_					
	R11 (11m) ~ R15 (15m)	_					
	R16 (16m) ~ R20 (20m)	_					

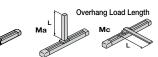
<sup>\*</sup> See page A-39 for cables for maintenance.

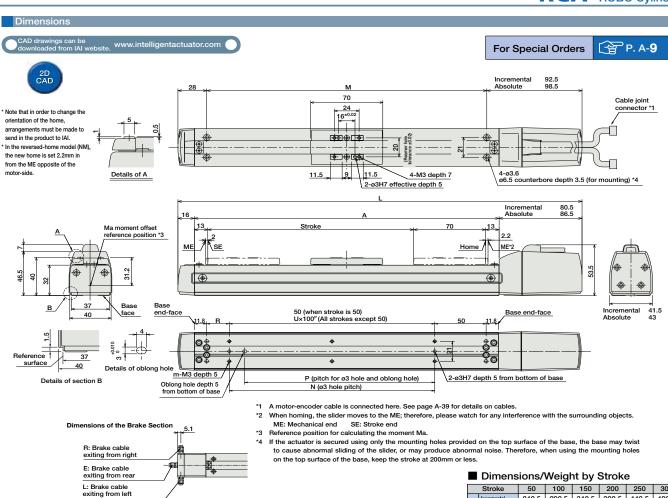
⑤ Option List							
Name	Option Code	See Page	Standard Price				
Brake (Cable exiting end)	BE	→ A-25	_				
Brake (Cable exiting left)	BL	→ A-25	_				
Brake (Cable exiting right)	BR	→ A-25	_				
Foot bracket	FT	→ A-29	_				
Power-saving	LA	→ A-32	_				
Reversed-home	NM	→ A-33	_				

Actuator Specifications					
Item	Description				
Drive System	Ball screw Ø8mm C10 grade				
Positioning Repeatability	±0.02mm				
Lost Motion	0.1mm or less				
Base	Material: Aluminum (white alumite treated)				
Allowable Static Moment	Ma: 6.9 N·m Mb: 9.9 N·m Mc: 17.0 N·m				
Allowable Dynamic Moment (*)	Ma: 2.7 N·m Mb: 3.9 N·m Mc: 6.8 N·m				
Overhang Load Length	Ma direction: 120mm or less Mb·Mc direction: 120mm or less				
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)				

<sup>(\*)</sup> Based on 5,000km travel life Directions of Allowable Load Moments







Stroke		50	100	150	200	250	300	
L	Incremental	242.5	292.5	342.5	392.5	442.5	492.5	
-	Absolute	248.5	298.5	348.5	398.5	448.5	498.5	
Α		146	196	246	296	296 346		
М		122	172	222	272 322		372	
N		50	100	100	200 200		300	
Р		35	85	85	185	185	285	
R		22	22	72	22	72	22	
U		-	1	1	2	2	3	
m		4	4	4	6	6	8	
Weight (kg)		0.6	0.7	0.8	0.9	1.0	1.1	

## ③ 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-20I②-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P477		
	Ĭ	ASEP-C-201②-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	Operable with same signal as solenoid valve.	3 points	ints		_	→ P487	
Splash-Proof Solenoid Valve Type		ASEP-CW-20I@-NP-2-0	No homing necessary with simple absolute type.				-	→ P487		
Positioner Type	E	ACON-C-201②-NP-2-0	Positioning is possible for up to 512 points	512 points	E40 points	540 mints		-		
Safety-Compliant Positioner Type		ACON-CG-20I@-NP-2-0	rositioning is possible for up to 512 points			(Standard) 1.3A rated	-			
Pulse Train Input Type (Differential Line Driver)		ACON-PL-201②-NP-2-0	Pulse train input type with differential line driver support	()	DC24V	DC24V	(Power-saving)	(Power-saving)	-	→ P535
Pulse Train Input Type (Open Collector)		ACON-PO-20I②-NP-2-0	Pulse train input type with open collector support	(-)		1.3A rated 2.5A max.	-			
Serial Communication Type		ACON-SE-201@-N-0-0	Dedicated to serial communication	64 points				-		
Field Network Type		RACON-20②	Dedicated to field network	768 points			_	→ P503		
Program Control Type		ASEL-C-1-20 ①②-NP-2-0	Programmed operation is possible Can operate up to 2 axes				-	→ P567		

Adding a brake increases the actuator's overall length (L) by 28mm (41.3mm with the cable coming out its end), and its weight by 0.2kg.

\* This is for the single-axis ASEL.

\* ① is a placeholder for the encoder type (I: incremental, A: absolute).

Slider Type

Standard

Controller Integrated

Rod Type

Mini

Standard

Controller Integrated

Table/Arm

Mini

Standard

Linear Serv

Cleanroom

. . . .

ontrollers

PSEP /ASEP

ROBO NET

ERC2

PSEL

ASEL

XSEL

Pulse Motor

Servo Motor (24V)

Servo Moto (200V)

Servo Mot

<sup>\*</sup> ② is a placeholder for the code "LA" when the power-saving option is specified.