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

RCA2-SD4NA

Robo Cylinder, Mini Rod Type, Short-Length Double-Guide Slide Unit Type, Actuator Width 72mm, 24V Servo Motor, Ball Screw Specification/Lead Screw Specification

Model Specification Items

 ϵ

RCA2 - SD4NA -

I: Incremental

encoder is also

* The Simple absolute

considered type "I".

20 — Encoder type — Motor type —

20: 20W Servo

2S: Lead screw 2mm

6: Ball screw 6mm 25: 25mm 4: Ball screw 4mm 50: 50mm

Ball screw 2mm 75: 75mm 6S: Lead screw 6mm 4S: Lead screw 4mm

— Applicable controller — Cable length A1:ACON ASEL A3:AMEC

P: 1m S: 3m **ASEP** M:5m

MSEP X□□: Custom Length

N: None



Technical References

Options

Power-saving

See options below.

(1) The horizontal payload is the value when used in combination with a guide so that a radial load and moment load are not applied to the rod. Please refer to page A-111 for correlation diagrams of the end load and service life when a guide is not installed.

- (2) The payload is the value when the actuator is operated at an acceleration of 0.3 G (0.2G for 2mm-lead if used vertically and for lead screw specification). The acceleration limit is the value indicated above.
- (3) The vertical payload is the value when the actuator is mounted and side bracket is operated. Take note that in vertical operation, the side bracket cannot be mounted to operate the actuator.
- (4) If the actuator is used vertically, pay attention to rod contact because the rod will come down when the power is turned off.
- (5) See page A-71 for details on push motion.

Actuator Specifications

■ Leads and Payloads

	Model number	Motor output (W)	Feed screw	Lead (mm)	Max. Load Horizontal (kg)	d Capacity Vertical (kg)	Rated thrust (N)	Positioning Repeatability (mm)	Stroke (mm)	Lead	Strol	
	RCA2-SD4NA-I-20-6-①-②-③-④			6	2	0.5 (*1)	33.8			>	6	
	RCA2-SD4NA-I-20-4-①-②-③-④	20	Ball screw	4	3	0.75 (*1)	50.7	±0.02	25 50 75	all screw	4	
	RCA2-SD4NA-I-20-2-①-②-③-④			2	6	1.5 (*1)	101.5			å [2	
	RCA2-SD4NA-I-20-6S-①-②-③-④			6	0.25	0.125 (*1)	19.9			rew	6	
	RCA2-SD4NA-I-20-4S-①-②-③-④	20	20	Lead screw	4	0.5	0.25 (*1)	29.8	±0.05	25 50 75	ad scre	4
	RCA2-SD4NA-I-20-2S-①-②-③-④			2	1	0.5 (*1)	59.7		'5) Le	2	
									ues enclos I settings.			

(*1)When the main unit side is fixed.

Stroke and Maximum Speed

Lead		Stroke	25 (mm)	50~75 (mm)				
	×	6	240 <200>	300				
	Ball screw	4	20	00				
		2	10	00				
	We	6	200	300				
	ead screw		200					
	Fe	2	10	00				
*The values enclosed in < > apply to (Limits or								

(Unit: mm/s)

Stroke	Standard price			
(mm)	Feed screw			
(11111)	Ball screw	Lead screw		
25	_	_		
50	_	_		
75	_	_		

4 Options

Name	Option code	See page	Standard price
Connector cable exits from the left	K1	→ A-51	_
Connector cable exits from the right	К3	→ A-51	_
Power-saving specification	LA	→ A-52	_

③Cable Length

,		
Type	Cable symbol	Standard price
Charaland	P (1m)	
Standard (Robot Cables)	S (3m)	_
(RODOL 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.

Actuati	or opecifications				
Item		Description			
Drive System		Ball screw/Lead screw, ø6mm, rolled C10			
Lost Motion		Ball screw: 0.1mm or less Lead screw: 0.3mm or less (initial value)			
Frame		Material: Aluminum, white alumite treated			
Ambient operating temperature, humidity		0 to 40°C, 85% RH or less (Non-condensing)			
Service life	Lead screw specification	Horizontal specification: 10 million cycles, Vertical specification: 5 million cycles			
	Ball screw specification	5,000km or 50 million cycles			

able/

Mini

Standar

Gripper/ Rotary Type

Linear Servo Type

> Cleanoom

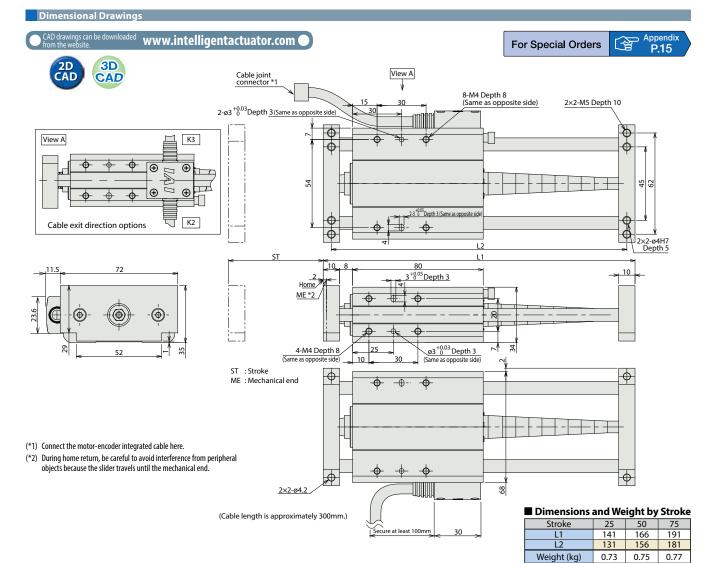
plash Proof

> ılse otor

ervo Motor 24V)

Servo Motor 200V)

Linear Servo Motor



	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Referen page
Solenoid Valve Type -		AMEC-C-20I①-①-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P53
	3	ASEP-C-20I①-⑪-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P5
Solenoid valve multi-axis type PIO specification	lane.	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			(Standard) 1.3A rated 4.4A max. (Power-saving)		→ P5
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points			_	→ P3
Positioner type		ACON-C-20I①-①-2-0	Positioning is possible for up to 512	512 points	DC24V		_	→ P631
Safety-Compliant Positioner Type		ACON-CG-20I①-⑪-2-0	points				_	
Pulse Train Input Type (Differential Line Driver)	Ē.	ACON-PL-20I①-①-2-0	Pulse train input type with differential line driver support	- (—)		1.3A rated 2.5A max.	_	
Pulse Train Input Type (Open Collector)	ė	ACON-PO-20I()-(i)-2-0	Pulse train input type with open collector support	(—)			_	
Serial Communication Type	ĺ	ACON-SE-20I①-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		ASEL-CS-1-20I①-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P6