* See page 14 for details on the model descriptions.

CA2-SD4NA ROBO Cylinder Mini Rod Type Short-Length, Double-Guide Slide Unit Type Actuator Width 72 mm 24V Servo Motor Ball Screw Specification/Lead Screw Specification ■ Model Description RCA2 - SD4NA 20 Series **Encoder type** Lead Stroke Compatible controllers Option Motor type Cable length 6: Ball screw 6mm 4: Ball screw 4mm 25: 25mm A3: ACON-CYB/PLB/POB 50: 50mm A5: ACON-CB/CGB LA: Power-saving specification I: Incremental N: None specification 20W P: 1 m S: 3 m * Model number is "I" when used with 75: 75mm A6: RCON 2: Ball screw 2mm M: 5 m 6S: Lead screw 6mm

4S: Lead screw 4mm

2S: Lead screw 2mm

simple absolute unit.



Power-saving specification

X□□: Length Designation

(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. See P129 for correlation diagrams of the end load and service life when a guide is not installed.

RSEL

- (2) The payload is the value when the actuator is operated at an acceleration of 0.3 G (0.2G for lead 2, 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.

Actuator Specifications Table

■ Leads and Payloads

Model	Motor	Feed	Lead	Maximum	<u> </u>	Rated	Positioning repeatability	Stroke		
Model	output (W)	screw	(mm)	Horizontal (kg)	Vertical (kg)	thrust (N)	(mm)	(mm)		
RCA2-SD4NA-I-20-6-①-②-③-④			6	2	0.5 (* 1)	33.8				
RCA2-SD4NA-I-20-4-①-②-③-④	20	20	Ball screw	4	3	0.75 (* 1)	50.7	±0.02	25 50 75	
RCA2-SD4NA-I-20-2-①-②-③-④			2	6	1.5 (* 1)	101.5		,3		
RCA2-SD4NA-I-20-6S-①-②-③-④			6	0.25	0.125 (* 1)	19.9				
RCA2-SD4NA-I-20-4S-①-②-③-④	20	Lead screw	4	0.5	0.25 (* 1)	29.8	±0.05	25 50 75		
RCA2-SD4NA-I-20-2S-①-②-③-④			2	1	0.5 (* 1)	59.7				
Legend (1) Stroke (2) Compatible Controllers (2) Cable length (4) Option (*1) When the main unit side is fixed										

■ Stroke and Maximum Speed

Lead	Stroke	25 (mm)	50~75 (mm)			
Ņ	6	240 <200>	300			
Ball screw	4	20	00			
Ba	2	10	00			
we	6	200	300			
Lead screw	4	20	00			
Le	2	10	00			

① Stroke list

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

4 Options

Title	Option code	See page	Standard price
Power-saving specification	LA	_	_

③Cable Length

*< > Indicates vertical	use

(unit: mm/s)

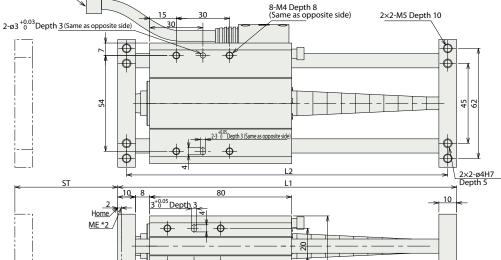
Type	Cable symbol	Standard price
Character day	P (1m)	_
Standard type (Robot cable)	S (3m)	_
(RODOL CADIE)	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_

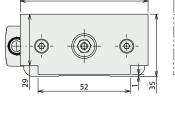
X16 (16m) ~ X20 (20m) * The standard cable for the RCA2 is the robot cable.

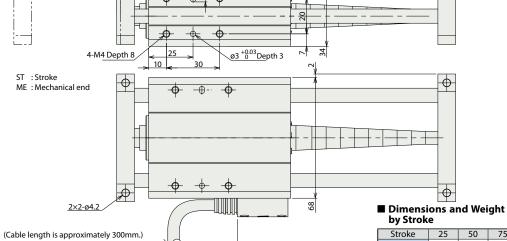
Actuato	r specifications	
	Item	Description
Drive System		Ball screw/Lead screw, ø6mm, rolled C10
Lost motion		Ball screw: 0.1mm or less Lead screw: 0.3 mm or less
Frame		Material: Aluminum, white alumite treated
Ambient operating temperature, humidity		0 to 40°C, 85% RH or less (Non-condensing)
Service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

Dimensional Drawings www.intelligentactuator.com Cable joint connector *1

- *1 Connect the motor and encoder cables.
- During home return, be careful to avoid interference from peripheral objects because the rod travels until the mechanical end.







	by Stroke							
	Stroke	25	50	75				
re at least 100mm	L1	141	166	191				
nm >	L2	131	156	181				
	Mass (kg)	0.73	0.75	0.77				

Applicable Controllers

The actuators on this page can be operated by the controllers indicated below. Please select the type depending on your intended use.

	F	Man annulas of	Power					Cor	ntrol r	neth	od								Mandan	D-f
Name	External view	Max. number of connectable axes	supply	Positioner	Pulse-	Program							k opti						Maximum number of positioning points	Reference page
	*****	connectable axes	voltage	Tositioner	train	riogiani	DV	CC	CIE	PR	CN	ML	ML3	EC	EP	PRT	SSN	ECM	positioning points	
ACON-CB/CGB		1		● * Option	• * Option	-	•	•	•	•	•	•	•	•	•	•	-	-	512 (768 for network spec.)	
ACON-CYB/PLB/POB		1		* Option	● * Option	-	-	-	-	-	-	-	-	-	-	-	-	-	64	Please contact
RCON	KM U	16 (ML3,SSN, ECM are 8)	24VDC	-	-	-	•	•	•	•	-	-	•	•	•	•	•	•	128 (No position data for ML3, SSN, ECM),	IAI for more information.
RSEL	THE R.	8		-	-	•	•	•	•	•	-	-	-	•	•	•	-	-	36000	

^{*1} For network abbreviations such as DV and CC, please contact IAI.

More controller info is available in the General Controller Catalog PDF.

