* See page 14 for details on the model descriptions.

CA2-RP3NA ROBO Cylinder Mini Rod Type Short-Length Tapped-Hole Mounting Type Actuator Width 28 mm 24V Servo Motor Ball Screw Specification/Lead Screw Specification ■ Model Description RCA2 - RP3NA10 Series **Encoder type** Motor type Lead Stroke Compatible controllers Option Cable length 10: Servo motor 10W 30: 30mm 50: 50mm K2: Connector cable exits from the I: Incremental 4: Ball screw 4mm N: None A3: ACON-CYB/PLB/POB specification 2: Ball screw 2mm P: 1 m S: 3 m A5: ACON-CB/CGB * Model number is "I" when used with 1: Ball screw 1mm A6: RCON M: 5 m 4S: Lead screw 4mm LA: Power-saving

2S: Lead screw 2mm

1S: Lead screw 1mm



simple absolute unit.

Power-saving specification

specification

X□□: Length Designation

- (1) The lead screw is not equipped with an anti-rotation device, so please attach a guide or similar locking device to the tip of the lead screw prior to use. (If there is no anti-rotation device attached, the lead screw cannot extend or retract.) When connecting the anti-rotation device and rod, do not use a floating joint.
- (2) The horizontal payload is the value when the actuator uses an external guide.

RSEL

- (3) The payload is the value when the actuator is operated at an acceleration of 0.3 G (0.2G for lead 1, if used vertically and for lead screw specification). The acceleration limit is the value indicated above.
- (4) Do not apply an external force on the rod in any direction other than the direction the rod is
- (5) 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 output (W)	Feed screw	Lead (mm)	Maximum Horizontal (kg)	Maximum payload orizontal (kg) Vertical (kg)		Positioning repeatability (mm)	Stroke (mm)
RCA2-RP3NA-I-10-4-①-②-③-④			4	0.75	0.25	42.7		
RCA2-RP3NA-I-10-2-①-②-③-④	10	Ball screw	2	1.5	0.5	85.5	±0.02	30 50
RCA2-RP3NA-I-10-1-①-②-③-④			1	3	1	170.9		
RCA2-RP3NA-I-10-4S-①-②-③-④		Lead screw	4	0.25	0.125	25.1		
RCA2-RP3NA-I-10-2S-①-②-③-④	10		2	0.5	0.25	50.3	±0.05	30 50
RCA2-RP3NA-I-10-15-①-②-③-④			1	1	0.5	100.5		

■ Stroke and Maximum Speed

Lead	Stroke	30 (mm)	50 (mm)								
Ņ	4	20	00								
Ball screw	2	10	100								
Ba	1	5	0								
Wei	4	20	00								
Lead screw	2	10	00								
Leg	1	5	0								

(unit: mm/s)

① Stroke list

Stroke (mm)	Standard price								
	Feed screw								
	Ball screw	Lead screw							
30	_	_							
50	_	_							

Legend ① Stroke ② Compatible Controllers ③ Cable length ④ Option

4 Options

Title	Option code	See page	Standard price
Connector cable exits from the front	К2	_	_
Power-saving specification	LA	_	_

③Cable Length

Type	Cable symbol	Standard price
Ct I I t	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.

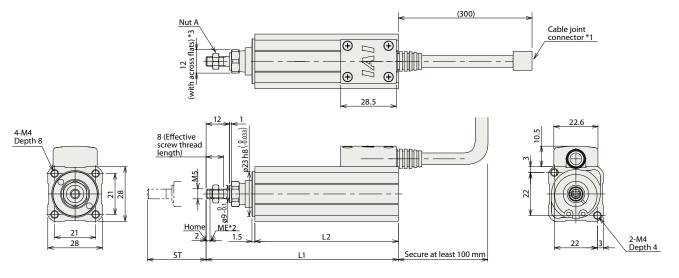
Actuato	r specifications						
	Item	Description					
Drive System		Ball screw/Lead screw, ø4mm, rolled C10					
Lost motion		Ball screw: 0.1mm or less Lead screw: 0.3 mm or less					
Frame		Material: Aluminum, white alumite treate					
Ambient operating temperature, humidity		0 to 40°C, 85% RH or less (Non-condensing)					
Service life	Lead screw specification	Horizontal specification: 10 million cycles, Vertical specification: 5 million cycles					

Dimensional Drawings

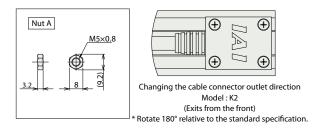




- *1 Connect the motor and encoder cables.
- *2 During home return, be careful to avoid interference from peripheral objects because the rod travels until the mechanical end.
- *3 The orientation of the nut varies depending on the product.







■ Dimensions and Weight by Stroke

	,	
Stroke	30	50
L1	98.5	118.5
L2	73.5	93.5
Mass (kg)	0.2	0.22

Applicable Controllers

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

			Power					Cor	ntrol r	neth	od									Reference page
Name	External view	Max. number of connectable axes	supply voltage	Positioner	Pulse- train	Program	DV	CC	CIE	DD			k opti			DDT	SSN	ECM	Maximum number of positioning points	
			voitage		trairi		DV	CC	CIE	PK	CN	IVIL	IVIL3	EC	EP	PKI	221/	ECIVI		
ACON-CB/CGB	Ð	1		● * Option	* Option	-	•	•	•	•	•	•	•	•	•	•	-	-	512 (768 for network spec.)	
ACON-CYB/PLB/POB	•	1		● * Option	• * Option	-	-	-	-	-	-	-	-	-	-	-	-	-	64	Please contact
RCON	HOME IL	16 (ML3,SSN, ECM are 8)	24VDC	-	-	-	•	•	•	•	-	-	•	•	•	•	•	•	128 (No position data for ML3, SSN, ECM),	IAI for more information.
RSEL	DET.	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.

