RCA2-RN3N ROBO Cylinder Mini Rod Type Short-Length Nut-Mounting Type 28mm Width 24V Servo Motor Lead Screw ■ Configuration: RCA2 — RN3N I 10 30 Cable Length Encoder Motor Lead Stroke Compatible Controlle Option 10 : 10W Servo 4S: 4mm lead screw
Motor 2S: 2mm lead screw
1S: 1mm lead screw N : None P : 1m S : 3m M : 5m K2 : Connector Cable exit direction LA : Power-saving I: Incremental \* The Simple 30 :30mm A1:ACON RACON absolute encoder ASEL is also considered A3:AMEC X □□ : Custom ASEP \* See page Pre-35 for an explanation of the naming convention.

Power-saving



Technical References

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Notes on Selection

- ) The lead screw is not equipped with an anti-rotation device. Therefore, when using the actuator, add an anti-rotation device such as a guide to the end of the lead screw prior to use. (Without an antirotation device, the lead screw will rotate, and will not extend or retract.)
- The load capacity is based on operation at an acceleration of 0.2G.
   This is the upper limit of the acceleration.
- (3) Do not apply any external force on the rod from any direction other than the direction of the rod's motion.
- 4) This model uses a lead screw. Please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

## Actuator Specifications ■ Lead and Load Capacity ■ Stroke and Maximum Speed Max. Load Capacity Feed Screw Rated Stroke Lead 30 Model Thrust (N) RCA2-RN3N-I-10-4S-30-1 - 2 - 3 200 4 0.25 0.125 25.1 4 Lead Screw Lead 30 RCA2-RN3N-I-10-2S-30-10-20-3 10 2 0.5 0.25 50.3 ±0.05 2 100 Screw RCA2-RN3N-I-10-1S-30-1 - 2 - 3 1 1 0.5 100.5 1 50 (Unit: mm/s) Legend ① Compatible controller ② Cable length ③ Options

Stroke List	
Stroke (mm)	Standard Price
	Feed Screw
	Lead Screw
30	-

② Cable List				
Cable Symbol	Standard Price			
P (1m)	_			
<b>S</b> (3m)	-			
<b>M</b> (5m)	-			
<b>X06</b> (6m) ~ <b>X10</b> (10m)	-			
X11 (11m) ~ X15 (15m)	_			
X16 (16m) ~ X20 (20m)	-			
	P (1m) S (3m) M (5m) X06 (6m) ~ X10 (10m) X11 (11m) ~ X15 (15m)			

- \* The RCA2 comes standard with a robot cable.
- \* See page A-39 for cables for maintenance.

③ Option List					
Name	Option Code	See Page	Standard Price		
Connector cable exit direction	K2	→ A-32	-		
Power-saving	LA	→ A-32	-		

Item	Description		
Drive System	Lead Screw ø4mm C10 grade		
Lost Motion	0.3mm or less (initial value)		
Frame	Material: Aluminum (white alumite treated)		
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)		
Service Life	Horizontal: 10 million cycles Vertical: 5 million cycles		

## Dimensions

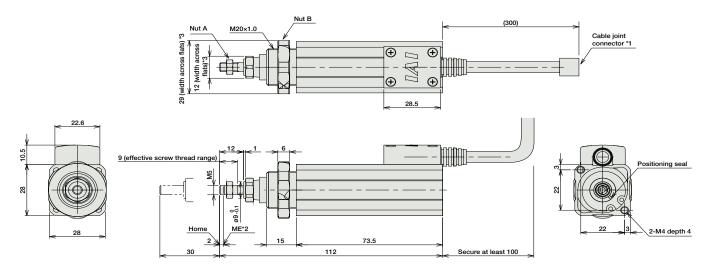
For Special Orders



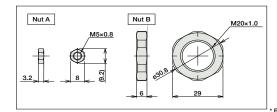




- \*1 A motor-encoder cable is connected here. See page A-39 for details on cables.
- When homing, the rod moves to the mechanical end; therefore, please watch for any interference with the surrounding objects.
- The orientation of the bolt will vary depending on the product.



ME: Mechanical end





Connector cable exit direction (Model: K2)

\* Rotates 180 degrees with respect to the standard model.

## ■ Dimensions/Weight by Stroke

Stroke	30		
Weight (kg)	0.25		

## 1 Compatible Controllers

The RCA2 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	A	AMEC-C-10I①-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P477
Solenoid valve Type	1	ASEP-C-10I①-NP-2-0	Operable with same signal as solenoid valve.  Supports both single and double solenoid types.	3 points		(Standard) 1.3A rated 4.4A max. DC24V (Power-saving) 1.3A rated 2.5A max.	-	- → P487
Splash-Proof Solenoid Valve Type	1	ASEP-CW-10I①-NP-2-0	No homing necessary with simple absolute type.				-	
Positioner Type		ACON-C-10I①-NP-2-0	Positioning is possible for up to 512 points	512 points			-	→ P535
Safety-Compliant Positioner Type		ACON-CG-10I①-NP-2-0	T distributing is possible for up to 012 points	512 points			-	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-10I①-NP-2-0	Pulse train input type with differential line driver support	()	DC24V		-	
Pulse Train Input Type (Open Collector)		ACON-PO-10I①-NP-2-0	Pulse train input type with open collector support	(-)			-	
Serial Communication Type		ACON-SE-10I①-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RACON-10①	Dedicated to field network	768 points			-	→ P503
Program Control Type		ASEL-C-1-10I①-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P567

<sup>\*</sup> This is for the single-axis ASEL.
\* ① is a placeholder for the code "LA" if the power-saving option is specified.