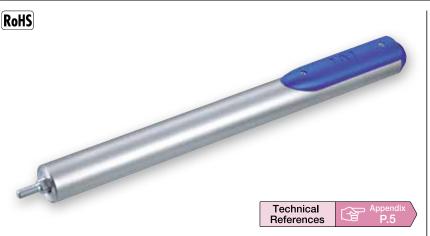
* See page Pre-47 for details on the model descriptions.

Model Specification Items RCL - RA2L -5 30 Type Encoder type Motor type Lead Stroke Applicable controller Cable length Options I: Incremental 5: Linear servo motor N: No screw A1:ACON N: None P: 1m S: 3m 30: 30mm B: Brake specification ASEL (with brake box) 5W BN· Brake A3: AMEC M:5m X□□: Custom (without brake box)



OIN Notes on

- (1) The payload is determined by the acceleration and duty. Verify the payload in the payload (horizontal) and acceleration chart at right. Operating time x 100 per cycle. The duty is Operating time + stop time
- (2) If the actuator is operated vertically, use the optional brake specification.
- (3) Please use an external guide to avoid a horizontal or rotational load applied to the rod.
- (4) The pushing force fluctuation increases when the current limit is low.
- (5) Simple absolute unit cannot be used with the RCL series.

■ Relation between payload (horizontal) and acceleration

Length

Maximum	Load Capacity (kg)					
Acceleration (G)	Continuous (Duty is	s operation s 100%)	Duty is 70% or less			
(G)	Holizontal	Vertical	Holizontal	Vertical		
0.1	1					
0.3	'	0.2	1	0.2		
0.5	0.85					
1	0.4		0.5			
1.5	0.24	_	0.3	_		
2	0.15	_	0.2	_		

■ Pushing force guidelines

ASEP MSEP

Pushing operation is possible within the range of numeric values listed below.

Electric current limit	30%	40%	50%	60%	70%	80%
Pushing force	1.5	2	2.5	3	3.5	4

The pushing forces listed above are for horizontal usage. If facing vertically upward, subtract 1N from the numeric values listed above, but if facing vertically downward,

Actuator Specifications

Lead and Payload

Model number	Motor			Rated	Instantaneous	Maximum acceleration	Positioning repeatability	Stroke	
Model Humber	output(W)	Horizontal (kg)	Vertical (kg)	thrust (N)	maximum thrust (N)	(G)	(mm)	(mm)	
RCL-RA2L-I-5-N-30-①-②-③	5	See chart above	See chart above	5	18	Holizontal 2G Vertical 1G	±0.1	30 (Fixed)	

■ Stroke and Maximum Speed

Stroke	30 (mm)
Lead	(mm)
(no screw)	340

Code explanation ① Applicable controller ② Cable length ③ Options

(Unit: mm/s)

(N)

③ Options

Title

Stroke (mm)	Standard price
30	

Туре	Cable symbol	Standard price		
	Cable Symbol	with Brake	without Brake	
Standard	P (1m)	_	_	
(Robot Cables)	S (3m)	_	_	
	M (5m)	_	_	
	X06 (6m) ~ X10 (10m)	_	_	
Special length	X11 (11m) ~ X15 (15m)	_	_	
	X16 (16m) ~ X20 (20m)	_	_	

- * The standard cable for the RCL is the robot cable.
- * See page A-59 for the cable for non-brake specification.
- * See page 440 for the cable for brake specification.
 (All prices represent the total of an integrated motor/encoder/brake cable.)

Actuator Specifications

ltem	Description
Drive System	Linear servo motor
Encoder resolution	0.042mm
Pipe	Material: Nickel-plated carbon steel tube
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service life	10 million cycles

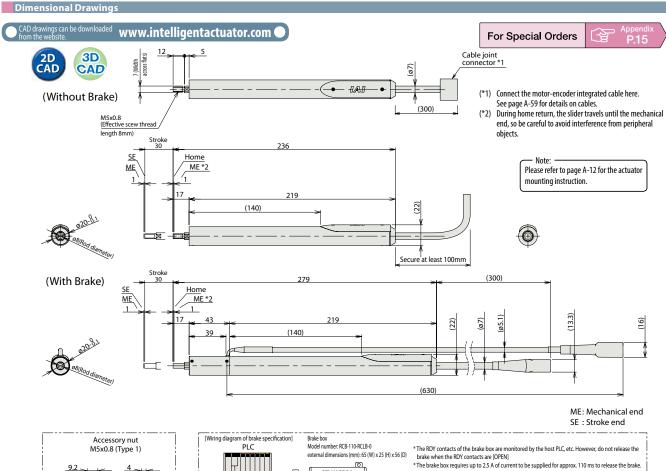
Brake (with brake box) В → P440 Brake (without brake box *The brake box and cable with brake is needed to use the brake. If only the actuator with brake is needed for a repair, specify the BN (specification without brake box).

Option code

See page

Standard Price





Accessory nut M5x0.8 (Type 1) 9.2 4	DC24V Mod	external dimensions (mm): 65 (W) x 25 (H) x 56 (D)	brake when the RDY contained the brake box requires up to the brake box re	cts are [OPEN] to 2.5 A of current to be su	he host PLC, etc. However, do oplied for approx. 110 ms to re	elease the brake.
		del number: CB-APSEP-MPBA □□□(for AMEC/ASE	EP)	Stroke	30 (without brake)	30 (with brake)
	Controller			Weight (kg)	0.33	0.4

①Applicable Controllers RCL series actuators can be operated with the controllers indicated below. Select the type according to your intended application.								
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Solenoid Valve Type	NA.	AMEC-C-5I-①-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537
Soletiola valve Type	3	ASEP-C-5I-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		1.0A rated 6.4A max.	_	→ P547
Solenoid valve multi-axis type PIO specification		MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected					→ P563
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points	DC24V			
Positioner type		ACON-C-5I-①-2-0	Positioning is possible for up to 512	512 points			_	
Safety-Compliant Positioner Type		ACON-CG-5I-①-2-0	points				_	→ P631
Pulse Train Input Type (Differential Line Driver)	Ó	ACON-PL-5I-①-2-0	Pulse train input type with differential line driver support	()			_	
Pulse Train Input Type (Open Collector)	è	ACON-PO-5I-①-2-0	Pulse train input type with open collector support	(—)			_	
Serial Communication Type		ACON-SE-5I-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		ASEL-CS-1-5I-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675

^{*}This is for the single-axis ASEL. * ① indicates I/O type (NP/PN). * ① indicates number of axes (1 to 8). * ⑩ indicates field network specification symbol.