Controllers Integrated

> Rod Type

Min

Standard

Controllers Integrated

> Table/ Arm/ Flat Type

Mini

Gripper

Linear Servo Type

Cleanroom Type

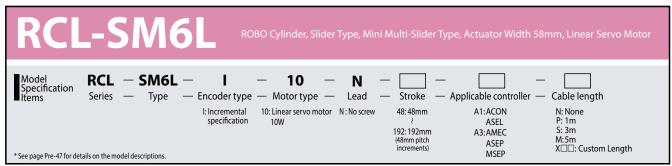
Splash Proo Type

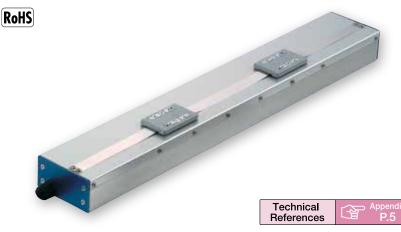
> Pulse Moto

Servo Moto (24V

Servo Motor (200V)

Linear Servo Motor





■ Relation between payload (horizontal) and acceleration

Maximum Acceleration	Load Capacity (kg)				
(G)	Continuous operation (Duty is 100%)				
0.1	3.2				
0.3	3.2				
0.5	2				
1	1				
1.5	0.65				
2	0.5				

Notes on selection

Actuator Specifications

- (1) Please take care because this type has magnetic flux leakage. (If magnetism is a problem, use SA1L/SA2L/SA3L)
- (2) The payload is determined by the acceleration and duty. Verify the payload in the payload (horizontal) and acceleration chart at right.

The duty is Operating time x 100 per cycle.

- (3) The mounting position is horizontal-only. Please take care because the slider will drop down with power OFF when operating vertically.
- (4) Simple absolute unit cannot be used with the RCL series.

■ Stroke and Maximum Speed

■ Lead and Payload Motor output(W) Maximum payload Rated thrust (N) nstantaneous maximum thrust (N) Model number (mm) Horizontal (kg) | Vertical (kg) 48~192 See chart RCL-SM6L-I-10-N-10-2-3 10 10 30 2 ± 0.1 (Every above 48mm)

Stroke Lead	48~192 (Every 36mm)		
(no screw)	1600		

Code explanation ① Stroke ② Applicable controller ③ Cable length

(Unit: mm/s)

① Stroke	
①Stroke (mm)	Standard price
48	_
96	_
144	_
192	_

③ Cable Length					
Type	Cable symbol	Standard price			
Standard	P (1m)				
(Robot Cables)	S (3m)	_			
(Robot Cables)	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 cables for maintenance.

Actuator Specifications					
ltem	Description				
Drive System	Linear servo motor				
Encoder resolution	0.042mm				
Base	Material: Aluminum, white alumite treated				
Allowable dynamic moment (*)	Ma: 0.87 N·m, Mb: 0.75 N·m, Mc: 1.22 N·m				
Overhung load length	Ma direction: 80mm or less Mb and Mc directions: 120mm or less				

Ambient operating temperature, humidity 0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on 5,000km of traveling life

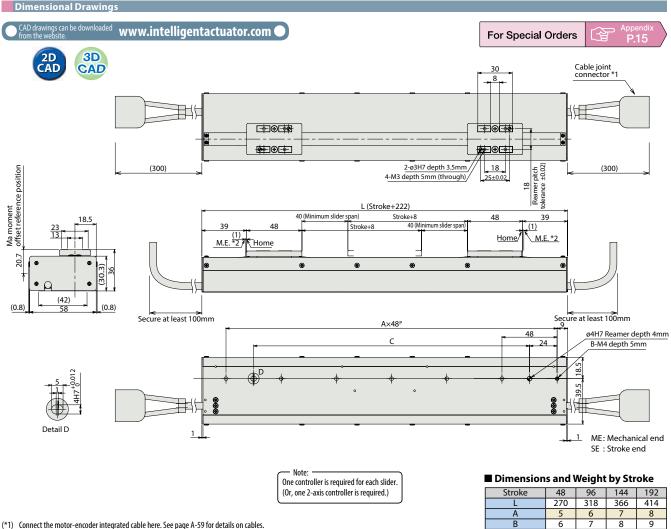


336

1.58

288

1.44



(*1)	Connect the motor-encoder integrated cable here. See page A-59 for details on cables.
/*a\	During home return, the clider travels until the machanical and, so he careful to avoid in

(*2) During home return, the slider travels until the mechanical end, so be careful to avoid interference from peripheral objects.

②Applicable 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	131	AMEC-C-10I-①-2-1	Easy-to-use controller, even for beginners	AC1	AC100V	2.4A rated	_	→ P537
Soleriold valve type	1	ASEP-C-10I-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		1.3A rated 6.4A max.	_	→ P547
Solenoid valve multi-axis type PIO specification		MSEP-C-(1)-~-(1)-2-0	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-10I-①-2-0	Positioning is possible for up to 512	512 points			_	→ P631
Safety-Compliant Positioner Type		ACON-CG-10I-①-2-0	points				_	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-10I-①-2-0	Pulse train input type with differential line driver support	- (—)			_	
Pulse Train Input Type (Open Collector)		ACON-PO-10I-①-2-0	Pulse train input type with open collector support				_	
Serial Communication Type		ACON-SE-10I-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		ASEL-CS-1-10I-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.

192 240

1.31

1.17

Weight (kg)