RCL-SA6L


| Technical <br> References | Appendix |
| :--- | :--- | :---: |


|  | (1) Please take care because this type has magnetic flux leakage. <br> (If magnetism is a problem, use SA1L/SA2L/SA3L) <br> (2) The payload is determined by the acceleration and duty. Verify the payload in the payload (horizontal) and acceleration chart at right. $\text { The duty is } \frac{\text { Operating time }}{\text { Operating time }+ \text { stop time }} \times 100 \text { per cycle. }$ <br> (3) The mounting position is horizontal-only. Please take care because the slider will drop down with power OFF when operating vertically. <br> (4) Simple absolute unit cannot be used with the RCL series. |
| :---: | :---: |

Relation between payload (horizontal) and acceleration

| Maximum <br> Acceleration <br> (G) | Load Capacity (kg) |
| :---: | :---: |
|  | Continuous operation (Duty is 100\%) |
| 0.3 | 3.2 |
| 0.5 | 2 |
| 1 | 1 |
| 1.5 | 0.65 |
| 2 | 0.5 |

$\square$ Stroke and Maximum Speed

| Lead | Stroke <br> (Every 48mm) |
| :--- | :---: |
| (no screw) | 1600 |

(Unit: mm/s)
(1) Stroke

| (1) Stroke $(\mathrm{mm})$ | Standard price |
| :---: | :---: |
| $\mathbf{4 8}$ | - |
| $\mathbf{9 6}$ | - |
| 144 | - |
| 192 | - |
| $\mathbf{2 4 0}$ | - |
| $\mathbf{2 8 8}$ | - |

(3) Cable Length

| Type | Cable symbol | Standard price |
| :---: | :--- | :---: |
| Standard | $\mathbf{P}(1 \mathrm{~m})$ | - |
|  | $\mathbf{S}(3 \mathrm{~m})$ | - |
|  | $\mathbf{M}(5 \mathrm{~m})$ | - |
| Special length | $\mathbf{X 0 6}(6 \mathrm{~m}) \sim \mathbf{X 1 0}(10 \mathrm{~m})$ | - |
|  | $\mathbf{X 1 1}(11 \mathrm{~m}) \sim \mathbf{X 1 5}(15 \mathrm{~m})$ | - |
|  | $\mathbf{X 1 6}(16 \mathrm{~m}) \sim \mathbf{X 2 0}(20 \mathrm{~m})$ | - |

* The standard cable for the RCL is the robot cable.
* See page A-59 for cables for maintenance.
(4) Options

| Title | Option code | See page | Standard Price |
| :---: | :---: | :---: | :---: |
| Non-motor end specification | NM | $\rightarrow$ A- 52 | - |


| Actuator Specifications |
| :--- |
| Item Description <br> Drive System Linear servo motor <br> Encoder resolution 0.042 mm <br> Base Material: Aluminum, white alumite treated <br> Allowable dynamic moment (*) Ma: $0.87 \mathrm{~N} \cdot \mathrm{~m}, \mathrm{Mb}: 0.75 \mathrm{~N} \cdot \mathrm{~m}, \mathrm{Mc}: 1.22 \mathrm{~N} \cdot \mathrm{~m}$ <br> Overhung load length Ma a irection: 80 mm or less <br> Mb and Mc directions: 120 mm or less <br> Ambient operating temperature, humidity 0 to $40^{\circ} \mathrm{C}, 85 \%$ RH or less (Non-condensing) |

(*) Based on $5,000 \mathrm{~km}$ of traveling life
433

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

| Stroke | 48 | 96 | 144 | 192 | 240 | 288 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| L | 162 | 210 | 258 | 306 | 354 | 402 |
| A | 3 | 4 | 5 | 6 | 7 | 8 |
| B | 4 | 5 | 6 | 7 | 8 | 9 |
| C | 96 | 144 | 192 | 240 | 288 | 336 |
| Weight (kg) | 0.67 | 0.8 | 0.93 | 1.07 | 1.2 | 1.34 |

(*1) Connect the motor-encoder integrated cable here. See page A-59 for details on cables.

| (2) Applicable 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 nower power | Power-supply capacity | Standard price | Reference page |
| Solenoid Valve Type | 4 | AMEC-C-101-(1)-2-1 | Easy-to-use controller, even for beginners | 3 points | AC100V | 2.4A rated | - | $\rightarrow$ P537 |
|  | 1 | ASEP-C-101-(1)-2-0 | Simple controller operable with the same signal as a solenoid valve |  | DC24V | 1.3A rated 6.4A max. | - | $\rightarrow$ P547 |
| Solenoid valve multi-axis type PIO specification |  | MSEP-C-(IT)-~-(1)-2-0 | Positioner type based on PIO control, allowing up to 8 axes to be connected |  |  |  | - | $\rightarrow$ P563 |
| Solenoid valve multi-axis type Network specification |  | MSEP-C-(II)-~-(II)-0-0 | Field network-ready positioner type, allowing up to 8 axes to be connected | 256 points |  |  |  |  |
| Positioner type | 4 | ACON-C-101-(1)-2-0 | Positioning is possible for up to 512 points | 512 points |  |  | - | $\rightarrow$ P631 |
| Safety-Compliant Positioner Type |  | ACON-CG-101-(1)-2-0 |  |  |  |  | - |  |
| Pulse Train Input Type (Differential Line Driver) |  | ACON-PL-101-(1)-2-0 | Pulse train input type with differential line driver support | (-) |  |  | - |  |
| Pulse Train Input Type (Open Collector) |  | ACON-PO-101(1)-2-0 | Pulse train input type with open collector support |  |  |  | - |  |
| Serial Communication Type | 1. | ACON-SE-101-N-0-0 | Dedicated Serial Communication | 64 points |  |  | - |  |
| Program Control Type | 1 | ASEL-CS-1-101-(1)-2-0 | Programmed operation is possible. Can operate up to 2 axes | 1,500 points |  |  | - | $\rightarrow$ P675 |

[^0]
[^0]:    *This is for the single-axis ASEL. * (1) indicates I/O type (NP/PN). * (1) indicates number of axes (1 to 8). * (1) indicates field network specification symbol.

