ROBO Cylinder, Slider Type, Mini Multi-Slider Type, Actuator Width 58mm, Linear Servo Motor


Eelation between payload (horizontal) and acceleration

| Maximum <br> Acceleration <br> (G) | Load Capacity (kg) |
| :---: | :---: |
|  | Continuous operation (Duty is 100\%) |
| 0.1 | 3.2 |
| 0.3 | 2 |
| 0.5 | 1 |
| 1 | 0.65 |
| 1.5 | 0.5 |
| 2 |  |


| Actuator Specifications |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - Lead and Payload |  |  |  |  |  |  |  |  | $\square$ Stroke and Maximum Speed |  |
| Model number | $\begin{gathered} \text { Motor } \\ \text { output(W) } \\ \hline \end{gathered}$ | $\begin{array}{\|r} \hline \text { Maximum } \\ \hline \text { Horizontal (kg) } \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \text { payload } \\ \hline \text { Vertical (kg) } \\ \hline \end{array}$ | $\begin{gathered} \text { Rated } \\ \text { thrust (N) } \end{gathered}$ | $\begin{array}{\|l\|l\|} \hline \text { nstantaneous } \\ \text { maximum } \\ \text { thrust (N) } \end{array}$ | $\substack{\text { Maximum } \\ \text { acceleration } \\ \text { (G) }}$ | $\begin{array}{\|l} \hline \begin{array}{c} \text { Positioning } \\ \text { repeatability } \\ (\mathrm{mm}) \end{array} \\ \hline \end{array}$ | $\begin{aligned} & \text { Stroke } \\ & (\mathrm{mm}) \end{aligned}$ | Lead | $\begin{gathered} 48 \sim 192 \\ \text { (Every } 36 \mathrm{~mm} \text { ) } \\ \hline \end{gathered}$ |
| RCL-SM6L-I-10-N-(1)-(2)-3 | 10 | See chart above | - | 10 | 30 | 2 | $\pm 0.1$ | $\begin{gathered} \text { 48~192 } \\ \text { (Every } \\ 48 \mathrm{~mm} \text { ) } \end{gathered}$ | (no screw) | 1600 |

Code explanation (1) Stroke (2) Applicable controller (3) Cable length

| (1)Stroke |
| :--- |
| (1) Stroke (mm) Standard price <br> 48 - <br> 96 - <br> 144 - <br> 192 - |

(3) Cable Length

| Type | Cable symbol | Standard price |
| :---: | :--- | :---: |
| Standard <br> (Robot Cables) | $\mathbf{P}(1 \mathrm{~m})$ | - |
|  | $\mathbf{S}(3 \mathrm{~m})$ | - |
|  | $\mathbf{M}(5 \mathrm{~m})$ | - |
| 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.

Actuator Specifications

| Item | Description |
| :--- | :--- |
| Drive System | Linear servo motor |
| Encoder resolution | 0.042 mm |
| Base | Material: Aluminum, white alumite treated |
| Allowable dynamic moment (*) | Ma: $0.87 \mathrm{~N} \cdot \mathrm{~m}, \mathrm{Mb}: 0.75 \mathrm{~N} \cdot \mathrm{~m}, \mathrm{Mc}: 1.22 \mathrm{~N} \cdot \mathrm{~m}$ |
| Overhung load length | Ma direction: 80 mm or less <br> Mb and Mc directions: 120 mm or less |
| 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


| (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 power | Power-supply capacity | Standard price | Reference page |
| Solenoid Valve Type | 4 | AMEC-C-10I-(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-(II)-~-(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)-~-(III)-0-0 | Field network-ready positioner type, allowing up to 8 axes to be connected | 256 points |  |  |  |  |
| Positioner type |  | 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-10I-(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 |  | ACON-SE-10I-N-0-0 | Dedicated Serial Communication | 64 points |  |  | - |  |
| Program Control Type | F | ASEL-CS-1-10I-(1)-2-0 | Programmed operation is possible. Can operate up to 2 axes | 1,500 points |  |  | - | $\rightarrow$ P675 |

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

