ROBO Cylinder®

RCP6(S)-SA7C

**Model Specification Items**

- **Series**: RCP6: Separate Controller
  - RCP6S: Built-in Controller
- **Type**: WA: Battery-less Absolute
- **Encoder Type**: 56P: Stepper Motor
- **Motor Type**: S65 512nm
- **Cable Code**
- **Stroke**:
  - High-output
  - 4 High-output
- **Applicable Controller/O Type**
- **Cable Length**: 24 High-output
- **Options**

* RCP6 does not include a controller. RCP6S includes a built-in controller.
* Please refer to P.130 for more information.

**Selection Notes**

- Depending on the model, there may be some limitations to using the vertical, side, and ceiling mount positions. Please contact IAI for more information regarding mounting positions.

**Actuator Specifications**

- **Lead and Payload**
  - **Model Number**
  - **Connected Controller**
  - **Lead (mm)**
  - **Max. Payload (kg)**
  - **Max. Speed (mm/s)**
  - **Positioning repeatability (µm)**
  - **Stroke (mm)**
  - **Applicable controller/O type**
  - **Cable Length**

- **Stroke and Max. Speed**
  - **(Unit: mm/s)**

- **Stroke**
  - **Stroke (mm)**
  - **RCP6**
  - **RCP6S**
  - **Motor**

- **Options**

**Cable Length**

- **Robot Cable**

* Please refer to P.144 for more information regarding the maintenance cables.

**Actuator Specifications**

- **Item**
  - **Drive system**
  - **Positioning repeatability (µm)**
  - **Load motion**
  - **Base**
  - **Ambient operating temp. & humidity**

* Reference for overhang load length: Ma: 300mm or less, Mb, Mc: 300mm or less
* Values in parentheses are for high-precision (for lead 4/8) specification.

Please refer to our website for more information regarding the directions of the allowable moment and overhang load length.
This model is designed for single-phase operation. Please select "high-output specification" as an option for the MCON. With the MCON, operation is possible only when the high-output specification is selected.

The RCP6 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use. * Please refer to P.147 for more information about the built-in controller of RCP6S series.

<table>
<thead>
<tr>
<th>Name</th>
<th>External view</th>
<th>Input power</th>
<th>Positioner</th>
<th>Pulse train</th>
<th>Program</th>
<th>Network</th>
<th>*Option</th>
<th>Reference page</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCON-CB/CGB</td>
<td>1</td>
<td>DC24V</td>
<td>option</td>
<td>option</td>
<td>-</td>
<td>Network</td>
<td>512</td>
<td>Please see P.131</td>
</tr>
<tr>
<td>MCON-C/CG</td>
<td>4</td>
<td>4-M3 depth 6</td>
<td>option</td>
<td>option</td>
<td>-</td>
<td>768</td>
<td>256</td>
<td>Please see the MCON catalog.</td>
</tr>
<tr>
<td>MSEL-PC/PG</td>
<td>4</td>
<td>Single-phase</td>
<td>option</td>
<td>-</td>
<td>-</td>
<td>30,000</td>
<td>Please see the MSEL-PC/PG catalog.</td>
<td></td>
</tr>
</tbody>
</table>

* Please select "high-output specification" as an option for the MCON. With the MCON, operation is possible only when the high-output specification is selected.

- Applicable Controllers

The RCP6 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use. * Please refer to P.147 for more information about the built-in controller of RCP6S series.

- Dimensions and Mass by Stroke

- Dimensions

- CAD drawings can be downloaded from our website www.intelligentactuator.com