RCP6(S)-WRA14C

**Model Specification Items**

- **Series**: Lead 4/8 assumes Cable Length
- **Type**: WA, 56P
- **Encoder Type**: 16 High-output
- **Motor Type**: 32mm
- **Controller/I/O Type**: None
- **Cable Length**: N
- **Options**: See P.12 for more information about the model specification items.

- **Motor Unit Type**: Stepper Motor
- **Body size**: 140 mm
- **Cable exit direction (Left)**: WA
- **Cable exit direction (Right)**: WA
- **Controller/ I/O Type**: B-CJB-NM

**Actuator Specifications**

- **Actuator**: ROBO Cylinder®
- **Motor**: 24V
- **Control**: Built-in Controller
- **Ambient operating temp. & humidity**: 0~40°C, 85% RH or less (Non-condensing)
- **Rod overhang distance**: 50mm
- **Rod non-rotation precision**: ±0.01mm
- **Positioning repeatability**: ±0.01mm
- **Lost motion**: 0.1mm or less
- **Rod**: ø6mm Stainless steel
- **Rod non-rotation precision**: 0 deg
- **Ambient operating temp. & humidity**: 0~40°C, 85% RH or less (Non-condensing)

**Lead and Payload**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Lead (mm)</th>
<th>Connected Controller</th>
<th>Max. Payload (kg)</th>
<th>Stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCP6(S)-WRA14C-WA-56P-24</td>
<td>24</td>
<td>High-output Enabled</td>
<td>25</td>
<td>50~550</td>
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<td>RCP6(S)-WRA14C-WA-56P-16</td>
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<td>High-output Enabled</td>
<td>50</td>
<td>50~600</td>
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<td>RCP6(S)-WRA14C-WA-56P-8</td>
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<td>High-output Enabled</td>
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<td>50~600</td>
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<td>RCP6(S)-WRA14C-WA-56P-4</td>
<td>4</td>
<td>High-output Enabled</td>
<td>85</td>
<td>50~600</td>
</tr>
</tbody>
</table>

**Stroke and Max. Speed**

<table>
<thead>
<tr>
<th>Lead (mm)</th>
<th>Connected Controller</th>
<th>Max. Speed (mm/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCP6(S)-WRA14C</td>
<td>350</td>
<td>200</td>
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<tr>
<td>RCP6</td>
<td>400</td>
<td>200</td>
</tr>
<tr>
<td>RCP6S</td>
<td>500</td>
<td>250</td>
</tr>
<tr>
<td>RCP6S</td>
<td>550</td>
<td>250</td>
</tr>
<tr>
<td>RCP6</td>
<td>600</td>
<td>250</td>
</tr>
</tbody>
</table>

**Cable Length**

- **Cable Type**: P1m (1m), S1m (1m), M1m (1m), L1m (1m), XL1m (1m), X16m (2m), X24m (2m)
- **Robot Cable**: R01 (1m), R03 (1m), R04 (1m), R06 (1m), R11 (1m), R15 (1m), R16 (1m), R20 (1m)

**Actuator Specifications**

- **Item**: Drive system
- **Description**: Ball screw ø12mm, rolled C10
- **Positioning repeatability**: ±0.01mm
- **Lost motion**: 0.1mm or less
- **Rotating force**: 64mm Stainless steel
- **Rotating force**: 64mm Stainless steel
- **Allowable load and torque on rod tip**: See P.127
- **Rod tip turning distance**: 150mm
- **Ambient operating temp. & humidity**: 0~40°C, 85% RH or less (Non-condensing)
**Dimensions**

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

<table>
<thead>
<tr>
<th>Stroke</th>
<th>50</th>
<th>100</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
<th>400</th>
<th>450</th>
<th>500</th>
<th>550</th>
<th>600</th>
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</thead>
<tbody>
<tr>
<td>RCP6</td>
<td>w/o brake</td>
<td>405</td>
<td>455</td>
<td>505</td>
<td>555</td>
<td>605</td>
<td>655</td>
<td>705</td>
<td>755</td>
<td>805</td>
<td>855</td>
<td>905</td>
</tr>
<tr>
<td>RCP6</td>
<td>w/ brake</td>
<td>455</td>
<td>505</td>
<td>555</td>
<td>605</td>
<td>655</td>
<td>705</td>
<td>755</td>
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<td>855</td>
<td>905</td>
<td>955</td>
</tr>
<tr>
<td>RCP6S</td>
<td>w/o brake</td>
<td>405</td>
<td>455</td>
<td>505</td>
<td>555</td>
<td>605</td>
<td>655</td>
<td>705</td>
<td>755</td>
<td>805</td>
<td>855</td>
<td>905</td>
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<tr>
<td>RCP6S</td>
<td>w/ brake</td>
<td>455</td>
<td>505</td>
<td>555</td>
<td>605</td>
<td>655</td>
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<td>1</td>
</tr>
</tbody>
</table>

**Note:**
- Allowable static torque on rod tip (N•m)
- Allowable static torque on motor unit (N•m)
- Allowable dynamic load on rod tip (N)
- Allowable dynamic load on motor unit (N)
- Allowable dynamic torque on rod tip (N•m)
- Allowable dynamic torque on motor unit (N•m)
- Mass of actuator (kg)
- Mass of controller (kg)
- **w/ brake**
- **w/o brake**

### Rod Deflection of RCP6(S)-WRA14C (Reference Values)

<table>
<thead>
<tr>
<th>Load on rod tip (N)</th>
<th>0</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>800</th>
<th>1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deflection (mm)</td>
<td>0</td>
<td>0.4</td>
<td>0.8</td>
<td>1.2</td>
<td>1.6</td>
<td>2.0</td>
<td>2.4</td>
<td>2.8</td>
<td>3.2</td>
<td>3.6</td>
</tr>
</tbody>
</table>

### 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.

- **PCON-CB/CG**
  - External view: 1
  - DC24V
  - *Option
  - *Option
  - DeviceNet
  - DeviceNet
  - Ethernet/IP
  - Ethernet/IP
  - **512**
  - Please see P.131

- **MCON-C/G**
  - External view: 4
  - This model is network-compatible only.
  - Note: The type of compatible networks will vary depending on the controller. Please refer to reference page for more information.
  - **256**
  - Please see the MCON catalog.

- **MSEL-PC/PG**
  - External view: 4
  - Single-phase 100~230VAC
  - -
  - -
  - -
  - **30,000**
  - Please see the MSEL-PC/PG catalog.

*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.

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**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.**

- **M.E.**
- **S.E.**
- Stroke end
- Must be 180 or more

**Dimensions can be downloaded from our website.**

www.intelligentactuator.com

**2D CAD**

**2D CAD**