RCP6(S)-RRA4C

**Model Specification Items**

- **Series**
  - RCP6: Separate Controller
  - RCP6S: Built-in Controller
- **Type**
  - WA: Battery-less
- **Encoder Type**
  - 35P: Stepper
- **Motor Type**
  - MSEL: Coupled Motor
- **Motor Size**
  - 35C
- **Controller/IO Type**
  - P3: PCON
- **Motor Controller**
  - MCON
- **Motor Selection**
  - MSEL
- **Controller/I/O Type**
  - SE: SIO Type
- **Cable Length**
  - WA: Battery-less
- **Applicable Options**
  - NM: Brake
- **Applicable Motor Type**
  - N: None
- **Applicable Lead**
  - P: 1m
- **Applicable Stroke**
  - 0.5mm
- **Applicable Motor Size**
  - 5mm

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**Radial Load OK**

*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.

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**Actuator Specifications**

**Lead and Payload**

- **Model Number**
  - RCP6(S)-RRA4C-WA-35P-16
  - RCP6(S)-RRA4C-WA-35P-10
  - RCP6(S)-RRA4C-WA-35P-5
  - RCP6(S)-RRA4C-WA-35P-2.5

- **Connected Controller**
  - High-output Enabled

- **Max. Payload (kg)**
  - 7
  - 18
  - 28
  - 40

- **Stroke (mm)**
  - 1.5
  - 3
  - 6
  - 10

**Stroke and Max. Speed**

- **Lead (mm)**
  - 60
  - 10
  - 5
  - 2.5

- **Connected Controller**
  - High-output Enabled

- **Max. Payload (kg)**
  - 1,200
  - 700
  - 350
  - 175

- **Stroke (mm)**
  - 410
  - 10
  - 6
  - 10

**Cable Length**

- **Cable Code**
  - X06 (6m) - X10 (10m)
  - X11 (11m) - X15 (15m)
  - X16 (16m) - X20 (20m)
  - R01 (1m) - R03 (3m)
  - R04 (4m) - R06 (6m)
  - R11 (11m) - R15 (15m)
  - R16 (16m) - R20 (20m)

- **Standard**
  - P1 (1m)
  - S1 (5m)
  - M1 (10m)

- **Specified Length**
  - X06 (6m) - X10 (10m)
  - X11 (11m) - X15 (15m)
  - X16 (16m) - X20 (20m)

- **Robot Cable**
  - R01 (1m) - R03 (3m)
  - R04 (4m) - R06 (6m)
  - R11 (11m) - R15 (15m)
  - R16 (16m) - R20 (20m)

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**Correlation Diagrams of Speed and Payload**

- **RCP6(S)-RRA4C Horizontal mount**
  - Lead 2.5
  - Lead 5
  - Lead 10
  - Lead 16

- **RCP6(S)-RRA4C Vertical mount**
  - Lead 2.5
  - Lead 5
  - Lead 10
  - Lead 16

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**Options**

- **Name**
  - Brake
  - Cable exit direction (Top)
  - Cable exit direction (Right)
  - Cable exit direction (Bottom)
  - Flange
  - Tip adapter (Flange)
  - Tip adapter (Internal thread)
  - Tip adapter (Keyway)
  - Non motor end specification

- **Option Code**
  - B
  - C
  - J
  - J
  - FL
  - FFA
  - NFA
  - KFA

- **Reference Page**
  - P105
  - P105
  - P105
  - P105
  - P106
  - P105
  - P109
  - P108
  - P110

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**Actuator Specifications**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive system</td>
<td>Ball screw 8mm, rolled C10</td>
</tr>
<tr>
<td>Positioning repeatability</td>
<td>±0.01mm</td>
</tr>
<tr>
<td>Lost motion</td>
<td>0.1mm or less</td>
</tr>
<tr>
<td>Rod</td>
<td>62mm Aluminum</td>
</tr>
<tr>
<td>Rod non-rotation precisionº</td>
<td>0 deg</td>
</tr>
<tr>
<td>Allowable load and torque on rod tip</td>
<td>See P.127</td>
</tr>
<tr>
<td>Rod tip overhang distance</td>
<td>100mm</td>
</tr>
<tr>
<td>Ambient operating temp. &amp; humidity</td>
<td>0~40°C, 85% RH or less (Non-condensing)</td>
</tr>
</tbody>
</table>

º Rod's angular displacement in rotational direction with no load applied to the rod.
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.