RCP2-RTC/RTCL

**ROBO Cylinder**

**Configuration:**
- **RTC**: 330-degree rotation
- **RTCL**: Multi-rotational
- **I**: Incremental
- **Oscillation Angle**: 330 degrees (RTC only), 360 degrees (RTCL only)
- **Cable Length**: 30 degrees

**Company Information:**
- Toll Free Phone: (877) SERVO98
- Toll Free Fax: (877) SERV099
- www.electromate.com
- sales@electromate.com

**Controllers:**
- Linear Servo
- Integrated Servo Motor
- Pulse Motor

**Motor Options:**
- **PSEL**: Pulse Motor
- **PSEP**: Pulse Motor
- **RPCON**: Pulse Motor
- **RPCON**: Pulse Motor
- **RPCON**: Pulse Motor

**Encoder Options:**
- **I**: Incremental
- **O**: Orbital
- **N**: Normal
- **NM**: NM encoder

**Deceleration Ratio and Max. Speed:**
- **Deceleration Ratio**: 1/30
- **Max. Torque (N·m)**
- **RCP2-RTC-I-28P-20-330**: 1.1
- **RCP2-RTC-I-28P-30-330**: 1.1
- **RCP2-RTC-I-28P-20-360**: 1.1
- **RCP2-RTC-I-28P-30-360**: 1.1
- **RCP2-RTC-I-28P-20-330**: 1.7
- **RCP2-RTC-I-28P-30-330**: 1.7
- **RCP2-RTC-I-28P-20-360**: 1.7
- **RCP2-RTC-I-28P-30-360**: 1.7

**Stroke List:**
- **Type**: RTC
- **Oscillation Angle (deg)**: 330
- **Standard Price**: ~
- **RTC**: 360
- **RTCL**: ~

**Option List:**
- **Reversed-rotation**: Option Code: IA
- **Shaft adapter**: Code: TA
- **Table adapter**: Code: TA

**Actuator Specifications:**
- **Output Torque**:
  - **Output Torque (N·m)**
    - **RCP2-RTC-I-28P-20-330**: 1.1
    - **RCP2-RTC-I-28P-30-330**: 1.1
    - **RCP2-RTC-I-28P-20-360**: 1.1
    - **RCP2-RTC-I-28P-30-360**: 1.1
    - **RCP2-RTC-I-28P-20-330**: 1.7
    - **RCP2-RTC-I-28P-30-330**: 1.7
    - **RCP2-RTC-I-28P-20-360**: 1.7
    - **RCP2-RTC-I-28P-30-360**: 1.7

**Cable List:**
- **Type**
  - **P [m]**
  - **S [m]**
  - **M [m]**
  - ** NM  [m]**
  - **Robot Cable**
  - **X06 (6m)**
  - **X10 (10m)**
  - **X15 (15m)**
  - **X20 (20m)**
  - **R01 (1m)**
  - **R03 (3m)**
  - **R04 (4m)**
  - **R06 (6m)**
  - **R10 (10m)**
  - **R15 (15m)**
  - **R20 (20m)**

**Notes:**
- The output torque decreases as the rotational speed increases.
- The allowable moment of inertia of the rotated work piece varies with the rotational speed.
- The output torque graph on the right to see if the moment of inertia required for your desired speed and load capacity are supported.

**Additional Information:**
- * See page A-39 for cables for maintenance.
## Dimensions

### Note:
- In the drawing on the right, the shaded area indicates the rotating part.

### Note:
- The position in the drawing on the left is the home position. When homing, the actuator rotates to the left past the home position by 1 degree. Therefore please watch for any interference with the surrounding objects. The range of motion is 330 degrees clockwise, as viewed from above.

### Note:
- The bend radius R of the cable is the same as other models.

### Note:
- The motor-encoder cable is connected here. See page A-30 for details on cables.

### Note:
- This is for the single-axis PSEL.

### Note:
- 1 is a placeholder for the power supply voltage (1: 100V, 2: 100–240V).

### For Special Orders

See page A-9

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### Compatible Controllers

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
<th>Description</th>
<th>Max. Positioning Points</th>
<th>Input Voltage</th>
<th>Power Supply Capacity</th>
<th>Speed</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solenoid Valve Type</td>
<td>PWEC-C-28PI-NP-2-1</td>
<td>Easy-to-use controller, even for beginners</td>
<td>3 points</td>
<td>AC100V, AC220V</td>
<td>See P481</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Splash-Proof Solenoid Valve Type</td>
<td>PSEP-C-28PI-NP-2-0</td>
<td>Operable with same signal as solenoid valve. Supports both single and double solenoid types. No homing necessary with simple absolute type.</td>
<td>3 points</td>
<td>AC100V</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Positioner Type</td>
<td>PCON-C-28PI-NP-2-0</td>
<td>Positioning is possible for up to 512 points</td>
<td>512 points</td>
<td>DC24V</td>
<td>2A max.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Positioner Type</td>
<td>PCON-G-28PI-NP-2-0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Pulse Train/Position Type</td>
<td>PCON-PL-28PI-NP-2-0</td>
<td>Pulse train position with differential line driver support</td>
<td>512 points</td>
<td>DC24V</td>
<td>2A max.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Pulse Train/Position Type</td>
<td>PCON-PO-28PI-NP-2-0</td>
<td>Pulse train position with open collector support</td>
<td>512 points</td>
<td>DC24V</td>
<td>2A max.</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Pulse Train/Position Type</td>
<td>PCON-SE-28PI-NP-2-0</td>
<td>Dedicated to serial communication</td>
<td>54 points</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Serial Communication Type</td>
<td>PCON-SE-28PI-N-0-0</td>
<td>Dedicated to serial communication</td>
<td>54 points</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Field Network Type</td>
<td>RPCON-28P</td>
<td>Dedicated to field network</td>
<td>508 points</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Program Control Type</td>
<td>PSEL-C-1-28PI-NP-2-0</td>
<td>Programmed operation is possible</td>
<td>1500 points</td>
<td></td>
<td></td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

*1 The motor-encoder cable is connected here.