RCP6(S)-TA4C

**Model Specification Items**
- Series Type Encoder Type Motor Type Lead Cable Length Options
- TA4C WA 3SP 5 25:25mm
- WA Battery-less Absolute 3SP: Stepper Motor 16:1.6mm 10:1.6mm 5: 5mm 2.5: 2.5mm
- 35P 10:10mm
- 5: 5mm
- 2.5: 2.5mm

**Applicable Controller/IO Type**
- [RCP6] P3: CON MCON MSEL (RCP6S)
- SE: SIO Type
- N: None
- P: 1m
- S: 3m
- M: 5m
- X: [Specified Length]
- R: [Robot Cable]

**Motor Type**
- [2.5] High-output Enabled
- [5] 10

**Cable Length**
- Stroke: 2.5mm
- Lead: 10mm

**Stroke**
- 25:25mm
- 240:240mm

**Options**
- Please refer to the options table below.

**Correlation Diagrams of Speed and Payload**
- High-output enabled with PCON/MCON/MSEL connected.
- Lead & Payload

**Legend**
- Stroke: 2
- Applicable controller/IO type: 3
- Cable length: 5
- Options: 1

**Notes**
- (1) The maximum acceleration/deceleration is 1G for horizontal, and 0.5G for vertical use.
- (2) The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration and speed. Please refer to the "Selection Guidelines" (RCP6 Tables of Payload by Speed/Acceleration) on P.115 for more details.
- (3) When performing push-motion operation, please confirm the push force of each model by checking the "Correlation diagram of push force and current limit" on P.113.
- (4) High-rigidity (double-block) specification can be selected as an option.

**Actuator Specifications**
- **Lead and Payload**
- Model Number: Lead (mm) Connected Controller Max. Payload (kg) Stroke (mm) (Horizontal/Vertical)
- RCP6(S)-TA4C-WA: 3SP-16: 16 High-output Enabled 3.1 25-150 (The increment of stroke is 5mm)
- RCP6(S)-TA4C-WA: 3SP-10: 10 High-output Enabled 2.5 10
- RCP6(S)-TA4C-WA: 3SP-5: 5 High-output Enabled 5 5
- RCP6(S)-TA4C-WA: 3SP-2.5: 2.5 High-output Enabled 5 10
- RCP6(S)-TA4C-WA: 3SP-10: 10 High-output Enabled 8 2.5
- RCP6(S)-TA4C-WA: 3SP-5: 5 High-output Enabled 10 5
- RCP6(S)-TA4C-WA: 3SP-2.5: 2.5 High-output Enabled 10 10

**Cable Length**
- Specified Length
- Robot Cable

**Stroke and Max. Speed**
- (Unit: mm/s)
- Lead (mm) Connected Controller Single Block Double Block
- RCP6(S)-TA4C Horizontal mount, single block
- Lead 5: 25~150 40~190 240
- Lead 10: 75~300 100~340 260
- Lead 16: 100~450 140~510 300

**Options**
- Brake [B]
- Cable exit direction (Top) [CJ]
- Cable exit direction (Right) [CJ]
- Cable exit direction (Left) [CJ]
- High-rigidity (Double-block guide) [DB]
- Non-motor end specification [NM]

**Actuator Specifications**
- Drive system: Ball screw 4mm, rolled C-10
- Positioning repeatability: ±0.01mm
- Load moment: 0.1Nmm or less
- Material: Aluminum with white anodize treatment
- Static allowable moment: Single block [Ma: 1,800Nmm, Mb: 1,800Nmm, Mc: 2,500Nmm]
- Dynamic allowable moment: Single block [Ma: 1,800Nmm, Mb: 1,800Nmm, Mc: 2,500Nmm]

**Notes**
- (*) Assumes a standard rated life of 5,000km. The service life will vary depending on operation and installation conditions.
- Please refer to our website for more information regarding the directions of the allowable moment and overhang load length.
- Please refer to RCP6 instruction manual regarding the displacement of the table.
RCP6 ROBO Cylinder®

Dimensions

CAD drawings can be downloaded from our website.

www.intelligentactuator.com

Dimensions and Mass by Stroke

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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 RCP6 series.

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<th>Input power</th>
<th>Positioner</th>
<th>Pulse train</th>
<th>Program</th>
<th>Network</th>
<th>Maximum number of positioning points</th>
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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.