* See page Pre-47 for details on the model descriptions.

CR-GRSS

Model Specification Items RCP2CR GRSS - Series - Type -

ı

The Simple absolute

considered type "I".

I: Incremental

encoder is also

20P -

20□ size

30

— Encoder type — Motor type — Deceleration Ratio — 20P: Pulse motor, 30: 1/30 ratio

8:8mm deceleration (4mm per side)

8

Stroke —

Applicable controller — P1: PCON-PL/PO/SE **PSEL**

P3: PCON-CA PMEC/PSEP **MSEP**

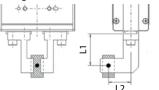
Cable length N: None See Options below.

P: 1m S: 3m

M:5m X□□:Custom Length

■ Gripping Force vs. Current Limit

The gripping (pushing) force can be adjusted freely within the range of current limits of 20% to 70%.



* Operate with the L1 distance up to 40mm.

* The gripping force value in the graph below is when both L1 and L2 are at 0 mm. (For gripping force reference per L1 distance, see page A-87.)

The gripping force value is the sum of gripping forces of both fingers.



* The gripping force graph above shows the number of references.

* Please note that, when gripping (pushing), the speed is fixed at

CE RoHS



Technical References





- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of the gripping forces of both fingers, at a gripping point where there is no offset or overhang distance. The work piece weight that can be actually moved depends on the friction coefficient between the gripper fingers and the work piece, as well as on the shape of the work piece. As a rough guide, a work piece's weight should not exceed 1/10 to 1/20 of the gripping force. (See page A-86 for details.)
- (3) The rated acceleration while moving is 0.3G.

Actuator Specifications

■ Lead and Pavload

| Model number | Deceleration Ratio | Maximum Gripping Force (N) | Stroke (mm) |
|------------------------------|-----------------------|-------------------------------|-------------------|
| RCP2CR-GRSS-I-20P-30-8-①-②-③ | 30 | 14 (7 per side) | 8 (4 per side) |
| | | | |

Code explanation ① Applicable Controller ② Cable length ③ Options

■ Stroke and Max. Speed/Suction Volume

| = stroke and max. speed, suction rolanic | | | | | |
|--|-----------|----------------------------|--|--|--|
| Stroke Deceleration ratio | 8 (mm) | Suction Volume (Nl/min) | | | |
| 30 | 78 | 10 | | | |

(Unit: mm/s)

| Stroke | |
|----------------|----------------|
| Stroke (mm) | Standard price |
| 8 | |

③ Options

| Name | Option code | See page | Standard price |
|-----------------------------|-------------|----------|----------------|
| Non-motor end specification | NM | → A-52 | _ |
| Flange bracket | FB | → A-43 | _ |
| Shaft bracket | SB | → A-55 | l |

②Cable Length

| © cable Length | | | |
|----------------------------|------------------------------------|----------------|--|
| Type | Cable symbol | Standard price | |
| Standard (Robot Cables) | P (1m) | _ | |
| | S (3m) | _ | |
| | M (5m) | _ | |
| Special length | X06 (6m) ~ X10 (10m) | _ | |
| | X11 (11m) ~ X15 (15m) | _ | |
| | X16 (16m) ~ X20 (20m) | _ | |

* The standard cable is the motor-encoder integrated robot cable. * See page A-59 for cables for maintenance.

| Actuator Specifications | |
|---|---|
| Item | Description |
| Drive System | Worm gear + helical gear + helical rack |
| Positioning repeatability | ±0.01mm |
| Backlash | 0.2mm or less per side (constantly pressed out by a spring) |
| Lost motion | 0.05mm or less per side |
| Guide | Linear guide |
| Allowable static load moment | Ma: 0.5 N·m, Mb: 0.5 N·m, Mc: 1.5 N·m |
| Weight | 0.2kg |
| Cleanliness | Class 10 (0.1µm) |
| Ambient operating temperature, humidity | 0 to 40°C, 85% RH or less (Non-condensing) |

Dimensional Drawings

www.intelligentactuator.com

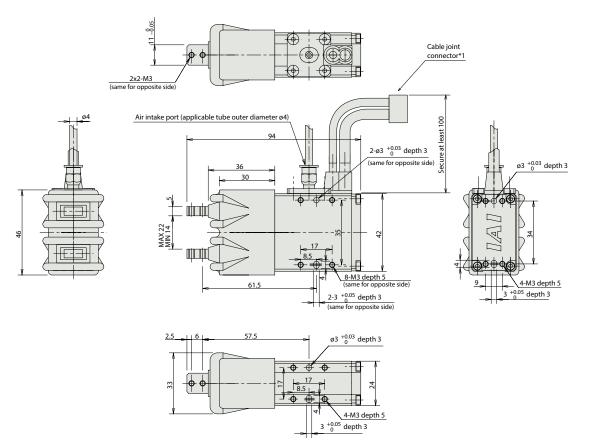
For Special Orders







* The opening side of the slider is the home position. (*1) Connect the motor-encoder integrated cable here. See page A-59 for details on cables.



| Weight (kg) | 0.2 |
|-------------|-----|

| Name | External view | Model number | Features | Maximum number of positioning points | Input power | Power-supply capacity | Standard price | Reference page |
|---|---------------------|---|---|--------------------------------------|------------------|-----------------------|-------------------|-------------------|
| Solenoid Valve Type | PMEC-C-20PI-①-2-⑪ | Easy-to-use controller, even for beginners | | AC100V AC200V | Refer to P541 | _ | → P537 | |
| | PSEP-C-20PI-①-2-0 | Simple controller operable with the same signal as a solenoid valve | | | Refer to P555 | _ | → P547 | |
| Solenoid valve multi-axis type PIO specification | A COLUMN TO SERVICE | MSEP-C | Positioner type based on PIO control, allowing up to 8 axes to be connected | | | Refer to | | , DEC2 |
| Solenoid valve multi-axis type Network specification | | MSEP-C | Field network-ready positioner type, allowing up to 8 axes to be connected | 256 points | | P572 | _ | → P563 |
| Positioner type High-output specification | | PCON-CA-20PI-①-2-0 | Equipped with a high-output driver Positioner type based on PIO control | 512 points | | | _ | |
| Pulse-train type High-output specification | | PCON-CA-20PI-PL□-2-0 | Equipped with a high-output driver Pulse-train input type | (—) | DC24V | Refer to P618 | _ | → P607 |
| Field network type High-output specification | | PCON-CA-20PI-Ŵ-0-0 | Equipped with a high-output driver Supporting 7 major field networks | 768 points | DC24V | | _ | |
| Pulse Train Input Type (Differential Line Driver) | | PCON-PL-20PI-①-2-0 | Pulse train input type with differential line driver support | (—) | | | _ | |
| Pulse Train Input Type (Open Collector) | | PCON-PO-20PI-①-2-0 | Pulse train input type with open collector support | (—) | | Refer to P628 | _ | → P623 |
| | | | | | | | | |

RCP2CR series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

Serial Communication Type

Program Control Type

① Applicable Controllers

PSEL-CS-1-20PI-①-2-0

PCON-SE-20PI-N-0-0

*This is for the single-axis PSEL. * ① indicates I/O type (NP/PN). * ① indicates power supply voltage (1: 100V / 2: 100~240V).
* ① indicates number of axes (1 to 8). * ② indicates field network specification symbol. * □ indicates N (NPN specification) or P (PNP specification) symbol.

64 points

1,500 points

IAI

Dedicated Serial Communication

Programmed operation is possible.

Can operate up to 2 axes

RCP2CR-GRSS 462

→ P665

Refer to P671