

RCP4-SA3C

ROBO Cylinder, Slider Type, Motor Unit Coupled, Actuator Width 32mm, Pulse Motor 24V

Model Specification Items

RCP4 — **SA3C** — **I** — **28P** — — — **P3** — —

Series — Type

Encoder type

Motor type

Lead

Stroke

Applicable controller

Cable length

Options

I : Incremental specification

28P : Pulse motor, size 28

6 : 6mm
4 : 4mm
2 : 2mm

25 : 25mm
? :
300 : 300mm (every 25 mm)

P3 : PCON-CA
MSEP-C/LC

N : None
P : 1m
S : 3m
M : 5m

X : Specified length
R : Robot cable

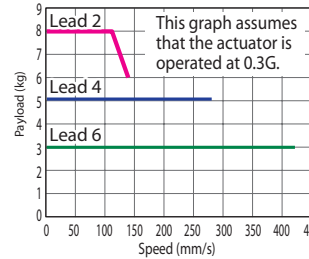
Refer to the option list below.



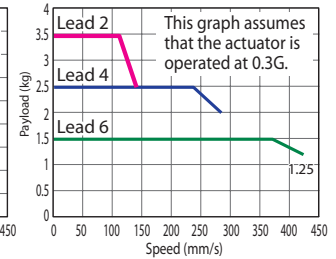
Correlation Diagrams of Speed and Payload

① High output enabled PCON-CA-MSEP-C/LC connected

RCP4-SA3C Horizontal

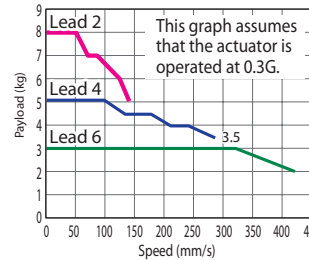


RCP4-SA3C Vertical

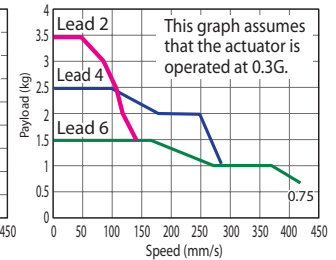


② High output disabled PCON-CA-MSEP-C/LC connected

RCP4-SA3C Horizontal



RCP4-SA3C Vertical



- Even though the payload described in the actuator specifications is the maximum value, it may vary depending on the acceleration. Refer to "Tables for Payload by Acceleration and Speed" on pg. 4 for details.
- Refer to "Relative Graph for Pressing Force and Current Limit" at the back of the catalog for the pressing operation.

Actuator Specifications Table

Leads and Payloads

Model number	Lead (mm)	Maximum payload		Stroke (mm)
		Horizontal (kg)	Vertical (kg)	
RCP4-SA3C-I-28P-6-①-P3-②-③	6	3	1.5	25 ~ 300 (every 25 mm)
RCP4-SA3C-I-28P-4-①-P3-②-③	4	5	2.5	
RCP4-SA3C-I-28P-2-①-P3-②-③	2	8	3.5	

Legend ① Stroke ② Cable length ③ Options

Stroke and Max. Speed

(unit: mm/s)

Lead (mm)	High-Output Setting	25 ~ 300 (every 25 mm)
6	Enabled	420
	Disabled	
4	Enabled	280
	Disabled	
2	Enabled	140
	Disabled	

① Stroke List (Standard price)

Stroke (mm)	Standard price	Stroke (mm)	Standard price
25	—	175	—
50	—	200	—
75	—	225	—
100	—	250	—
125	—	275	—
150	—	300	—

② Cable Length (Standard price)

Type	Cable symbol	Standard price
Standard type	P (1m)	—
	S (3m)	—
	M (5m)	—
Special length	X06 (6m) ~ X10 (10m)	—
	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
	R01 (1m) ~ R03 (3m)	—
Robot Cable	R04 (4m) ~ R05 (5m)	—
	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	—

③ Option List (Standard price)

Name	Option code	Reference page	Standard price
Brake	B	Refer to ROBO Cylinder General Catalog	—
Home-Position Check Sensor (on right)	HSR		—
Home-Position Check Sensor (on left)	HSL		—
Non-motor end specification	NM		Free

* In the home-position check sensor "HS", there are variations of "HSR" (attached on the right) and "HSL" (attached on the left) depending on the orientation that the sensor is attached. Refer to the ROBO Cylinder General Catalog for the contents of "HS" and the following page for the orientation of the attachment.

Actuator Specifications

Item	Description
Drive system	Ball screw \varnothing 6mm rolled C10
Positioning repeatability	\pm 0.02mm
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Guide	Linear guide
Dynamic allowable moment (*1)	Ma: 2.4 N·m, Mb: 3.5 N·m, Mc: 3.8 N·m
Allowable overhang	Ma direction: 100mm or less Mb-Mc direction: 100mm or less
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*1) Based on 5,000km of traveling life.

