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

# P3-SA4R

Model Specification Items

RCP3 - SA4R -Series — Type

− 35P П

— Encoder type — Motor type —

35□ size

35P: Pulse motor, 10:10mm 5:5mm 2.5 : 2.5mm Stroke 50: 50mm 500: 500mm

Applicable controller — P1: PCON-PL/PO/SE **PSEL** P3·PCON-CA (50mm pitch increments)

PMEC/PSEP

N: None See options below. P: 1m S: 3m \*Be sure to specify which side the motor is to be mounted M:5m X□□: Custom (ML/MR)

Cable length — Options

**MSEP** length

RoHS



I: Incremental

The Simple absolute

considered type "I".

encoder is also

Technical References

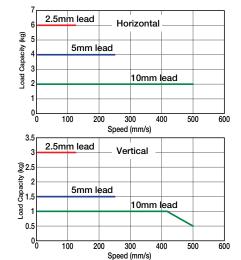




- (1) Since the RCP3 series use a pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.
- (2) The load capacity is based on operation at an acceleration of 0.3G (0.2G for 2.5mm-lead model, or when used vertically). These values are the upper limits for the acceleration.
- (3) See page A-71 for details on push motion.

## ■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



### Actuator Specifications

# ■ Leads and Payloads

Model number	Lead (mm)	Max. Load	Stroke (mm)	
	(111111)	Horizontal (kg)	Vertical (kg)	(11111)
RCP3-SA4R-I-35P-10-①-②-③-④	10	2	~1	
RCP3-SA4R-I-35P-5-①-②-③-④	5	4	1.5	50~500 (every 50mm)
RCP3-SA4R-I-35P-2.5-①-②-③-④	2.5	6	3	

# ■ Stroke and Maximum Speed

Stroke Lead	50~500 (every 50mm)
10	500
5	250
2.5	125

Code explanation ① Stroke ② Applicable Controller ③ Cable length ④ Options \*See page A-71 for details on push motion.

(Unit: mm/s)

①Stroke (mm)	Standard price			
UStroke (IIIII)	With cover	Without cover		
50	_	_		
100	_	_		
150	_	_		
200	_	_		
250	_	_		
300	_	_		
350	_	_		
400	_	_		
450	_	_		
500	<u> </u>	<u> </u>		

#### ④ Options

Name	Option code	See page	Standard price
Brake	В	→ A-42	_
Optional cable exit direction (top)	CJT	→ A-42	_
Optional cable exit direction (outside)	CJO	→ A-42	_
Optional cable exit direction (bottom)	CJB	→ A-42	_
Left-mounted motor (standard)	ML	→ A-52	_
Right-mounted motor	MR	→ A-52	_
No cover	NCO	→ A-52	_
Non-motor end specification	NM	→ A-52	_

# ③Cable Length

Type	Cable symbol	Standard price	
Standard (Robot Cables)	<b>P</b> (1m)	_	
	<b>S</b> (3m)	_	
	<b>M</b> (5m)	_	
Special length	<b>X06</b> (6m) ~ <b>X10</b> (10m)	_	
	X11 (11m) ~ X15 (15m)	_	
	X16 (16m) ~ X20 (20m)	_	

\* The standard cable is the motor-encoderintegrated robot cable.

\* See page A-59 for cables for maintenance.

# Actuator Specifications

Item	Description
Drive System	Ball screw, ø8mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, special alumite treated
Allowable static moment	Ma: 6.8 N·m, Mb: 9.7 N·m, Mc: 13.3 N·m
Allowable dynamic moment (*)	Ma: 3.04 N·m, Mb: 4.31 N·m, Mc: 5.00 N·m
Allowable overhang	120mm or less in Ma, Mb and Mc directions
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

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





Arm/ Flat Type

IVIIII

Standar

Rotary Type

Linear Servo Type

Cleanoom

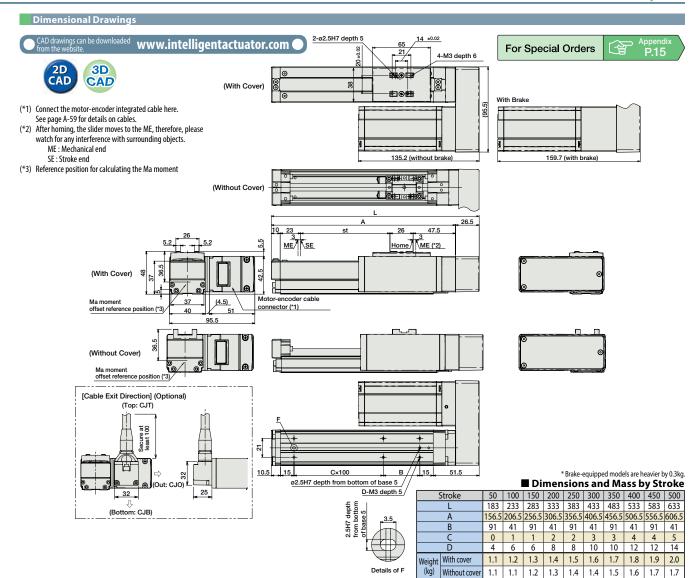
plash roof

ulse lotor

ervo lotor 24V)

Servo Motor

Linear Servo Motor



Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Calanaid Valua Tura	***	PMEC-C-35PI-①-2-⑪	Easy-to-use controller, even for beginners	3 points	AC100V AC200V	Refer to P541	_	→ P53
Solenoid Valve Type	1	PSEP-C-35PI-①-2-0	Simple controller operable with the same signal as a solenoid valve			Refer to P555	_	→ P54
olenoid valve multi-axis type PIO specification	lune"	MSEP-C-(  )-~-( )-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		→ P56
olenoid valve multi-axis type Network specification		MSEP-C-(11)-~-(10)-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	→ P50
Positioner type High-output specification		PCON-CA-35PI-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-35PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P60
Field network type High-output specification		PCON-CA-35PI-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-35PI-①-2-0	Pulse train input type with differential line driver support	(—)			_	
Pulse Train Input Type (Open Collector)	Ė	PCON-PO-35PI-①-2-0	Pulse train input type with open collector support			Refer to P628	_	→ P62
Serial Communication Type		PCON-SE-35PI-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		PSEL-CS-1-35PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	_	→ P66