2-SRGS4R

Model Specification Items RCP2 - SRGS4R -

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

35P Encoder type — Motor type

35P: Pulse motor,

size 35□

References

Lead

5: 5mm 2.5: 2.5mm

Stroke 20: 20mm 200: 200mm

- Applicable controller P1: PCON-PL/PO/SE **PSEL** P3: PCON-CA (10mm pitch increments) * 50mm increments over 100mm

PMEC/PSEP MSEP

N: None P: 1m S: 3m

Cable length

Options

* See options below.

M:5m X□□: Custom length

CE RoHS Technical

I: Incremental

encoder is also

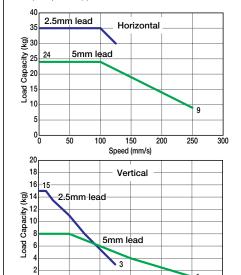
*The Simple absolute

considered type "I".

- (1) Since the RCP2 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 0.03G (0.2G is for the 2.5mm-lead model, or when used vertically). This is the upper limit of the acceleration.
- (3) The horizontal load capacity is based on the use of an external guide. See the technical resources (page A-109) for the allowable weight using the supplied guide alone.
- (4) See page A-71 for details on push motion.

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP2 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 (Note 1) Please note that the maximum load capacity decreases as the speed increases. (Note 2) 50mm increments over 100mm. ■ Stroke and Maximum Speed

Model number	Lead	Maximum payload (Note 1)		Positioning repeatability	Stroke (mm)	
Modernumber		Horizontal (kg)	Vertical (kg)	(mm)		
RCP2-SRGS4R-1-35P-5-①-②-③-④	5	~24	~8	112	20 to 200	
RCP2-SRGS4R-1-35P-2.5-①-②-③-④	2.5	~35	~15	224	(every 10mm) (Note 2)	

50

100

150

Speed (mm/s)

200

250

300

Stroke Lead	20~200 (every 10mm)
5	250
2.5	125

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

(Unit: mm/s)

①Stroke

①Stroke (mm)	Standard price
20 ~ 50	_
60 ~ 100	_
150	_
200	_

3Cable Length

Туре	Cable symbol	Standard price		
Standard type (Robot cable)	P (1m)	_		
	S (3m)	_		
	M (5m)	_		
Special length	X06 (6m) ~ X10 (10m)	_		
	X11 (11m) ~ X15 (15m)	_		
	X16 (16m) ~ X20 (20m)	_		

- * The cable is a motor-encoder integrated cable, and is provided as a robot cable. * See page A-59 for cables for maintenance.
- Actuator Specifications

4Options Page Standard Price Name Option code Brake В → A-42 Flange bracket (rear) FLR → A-46 Foot bracket 2 (right/left side mounting) FT2/FT4 → A-47

GS2 ~ GS4

NM

→ A-50

→ A-52

- The brake is available for strokes of 70mm or more.
 Please be sure that the mounting direction of the guide is specified in the product name.
 The guide and the foot bracket cannot be mounted in the same direction.
 (Combination of FT2 and FT4, GS4 and GS2 can be mounted. The foot bracket cannot be mounted in the GS3 direction.)

Item Description Drive method Ball screw, ø8mm, rolled C10 Positioning repeatability ±0.02mm Lost motion 0.1mm or less Rod diameter ø22mm Rod non-rotation precision ±0.05 deg Ambient operating temperature/humidity 0 to 40°C, 85% RH max. (Non-condensing)

Guide mounting direction

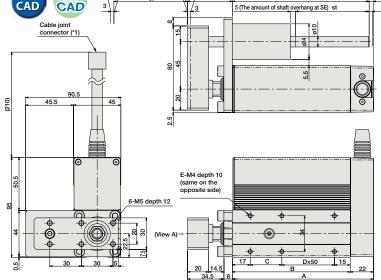
Non-motor end specification

Dimensional Drawings

www.intelligentactuator.com

2D CAD 3D

For Special Orders st+60 4 3 (The amount of shaft movement from the ME 5 (The amount of shaft overhang at SE) st on the home-side to the home position)



Secure at least 100 4-M6 depth 12 9 34

GS3 Bottom Guide mounting direction (as viewed from view A)

E-M4 depth 10 •

* The exterior dimensions for the brake-equipped model is no different than the standard model. However, 70mm is the minimum stroke of the brake-equipped models. (i.e. The brake is not compatible at 60mm strokes and under.)

■ Dimensions and Weights by Stroke (Add 0.2kg for brake equipped) 20 30 40 70 80 90 100 150 50 | 60 | 306.5 166.5 206.5 256.5 84 94 104 114 124 134 144 154 164 214 264 72 40 132 50 62 30 82 50 102 70 112 122 30 40 192 242 60 92 142 60 60 60 0 0 3 10

1.2 | 1.27 | 1.34 | 1.41 | 1.48 | 1.54 | 1.61 | 1.68 | 1.75 | 2.09 | 2.43

ST : Stroke SE : Stroke end ME: Mechanical end

(*1) Connect the motor-encoder integrated cable here. (See page A-59 for details on cables.)

(*2) When homing, the rod moves to the mechanical end position; therefore, please watch for any interference with the surrounding objects.

②Applicable Controllers

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Referenc page
Solenoid Valve Type	100	PMEC-C-35PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537
	1	PSEP-C-35PI-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		MSEP-C-(1)-~-(1)-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to P572	_	→ P563
Solenoid 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				
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-®-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	(—)		Refer to P628	_	→ P623
Pulse Train Input Type (Open Collector)		PCON-PO-35PI-①-2-0	Pulse train input type with open collector support				_	
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

Weight (kg)

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