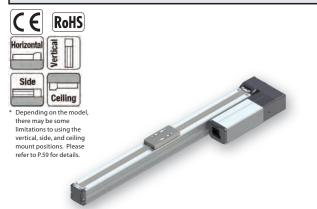
ROBO Cylinder, Slider Type, Side-mounted Motor Type, Actuator Width 40mm, 24V Pulse Motor

RCP5 - SA4R -■Model WA **P3** Applicable Specification Type Encoder type -Lead Stroke Cable length Options Motor type controllers Items WA: Battery-less 35P: Pulse motor, P3: PCON-CA N: No cable 16: 16mm 50: 50mm Please refer to P: 1m S: 3m absolute size 35□ 10: 10mm MSFP the options 500: 500mm MSEL specification table below. 5:5mm 2.5: 2.5mm (Every 50mm) M: 5m X□□: Specified length *Controller is not included. R□□: Robot cable

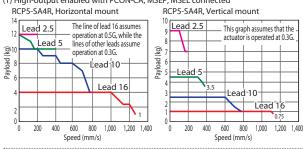


The figure above is the motor side-mounted to the left (ML).

- (1) The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration. Please refer to the "Selection Guidelines" (RCP5 Payload by Speed/Acceleration Table) on P. 61.
- (2) Please refer to P. 59 for push-motion operation.

■Correlation Diagrams of Speed and Payload

(1) High-output enabled with PCON-CA, MSEP, MSEL connected



(2) High-output disabled with PCON-CA, MSEP connected

RCP5-SA4R, Horizontal mount 12 Lead 2.5 This graph assumes that the Lead10 Payload (kg) Lead 5 Lead 16 500 600 700 800 Speed (mm/s)

RCP5-SA4R, Vertical mount This graph assumes that the actuator is operated at 0.2G Payload (kg) Lead 5 Lead 10 Lead 16 300 400 500 600 700 800 900 Speed (mm/s)

Actuator Specifications

■Lead and Payload

Model number		Connected controller	Maximun Horizontal (kg)	Vertical (kg)	Stroke (mm)
RCP5-SA4R-WA-35P-16-①-P3-②-③		High-output enabled	4	1	
RCP5-SA4R-WA-35P-16-[U-P3-[U-]	16	High-output disabled	4	'	
OCDE CAAD WA SED 10 M DS M M	10	High-output enabled	10	2.25	50~500
RCP5-SA4R-WA-35P-10-(U)-P3-(2)-(3)	10	High-output disabled	10	2.23	
RCP5-SA4R-WA-35P-5-①-P3-②-③		High-output enabled	12	4.5	(Every 50mm)
		High-output disabled	12	4.5	
		High-output enabled	12		
KCP5-SA4K-WA-35P-2.5- <u>U</u> -P3- <u>Z</u>]- <u>C</u>	2.5	High-output disabled	12	9	
RCP5-SA4R-WA-35P-10-①-P3-②-③ RCP5-SA4R-WA-35P-5-①-P3-②-③ RCP5-SA4R-WA-35P-2.5-①-P3-②-③	5	High-output disabled High-output enabled High-output disabled High-output enabled	10	2.25 4.5	

Legend: Tstroke Cable length Options *Please refer to P. 59 for push-motion operation.

■Stroke and Maximum Speed

/1	Init.	mm	

Lead (mm)	Connected controller	50~400 (Every 50mm)	450 (mm)	500 (mm)		
16	High-output enabled	1,260	1,060	875		
10	High-output disabled	840				
10	High-output enabled	785	675	555		
10	High-output disabled	525				
5	High-output enabled	390	330	275		
,	High-output disabled					
2.5	High-output enabled	195	165	135		
2.5	High-output disabled	130				

Stroke (mm)	Standard price	Stroke (mm)	Standard price
50	-	300	-
100	-	350	-
150	-	400	-
200	-	450	-
250	-	500	-

② Cable Length

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

*Please refer to P. 89 for maintenance cables

(3) Options			
Name	Option code	Reference page	Standard price
Brake	В	→P. 11	-
Cable exit direction (Top)	CJT	→P. 11	-
Cable exit direction (Outside)	CJO	→P. 11	-
Cable exit direction (Bottom)	CJB	→P. 11	-
Motor side-mounted to the left (Standard)	ML	→P. 11	-
Motor side-mounted to the right	MR	→P. 11	-
Slider roller specification	SR	→P. 11	-
Non-motor end specification	NM	→P. 11	-

Actuator Specifications

Item	Description
Drive system	Ball screw Ø8mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Dynamic allowable moment (*1)	Ma: 4.98N•m, Mb: 7.11N•m, Mc: 9.68N•m
Static allowable moment	Ma: 8.6N•m, Mb: 12.2N•m, Mc: 16.7N•m
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

•Reference for overhang load length/Ma: 120mm or less, Mb, Mc: 120mm or less

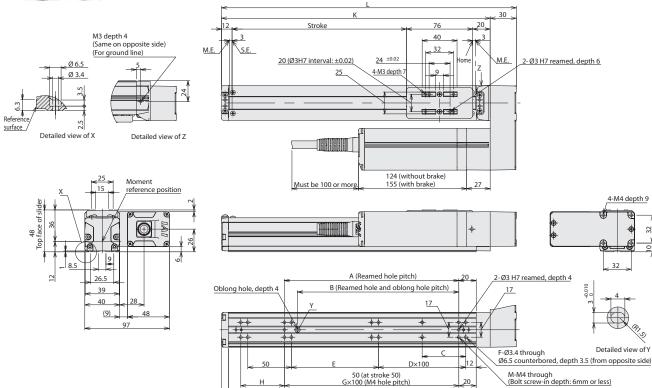
- (*1) Assumes a standard rated life of 5,000km.
- The operational life will vary depending on operation and installation conditions. Please refer to the general catalog for details on operational life, allowable moment direction, and overhang load length.

Dimensions

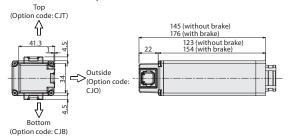
CAD drawings can be downloaded from our website. www.intelligentactuator.com



- *1 When the slider is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the ME. ME: Mechanical end
 - SE: Stroke end *2 Please see P. 48 for slider roller specification (SR).



■Cable Exit Direction (Option)



*The figure above is for the motor side-mounted to the left (ML).

■Dimensions and Mass by Stroke

				•							
	Stroke	50	100	150	200	250	300	350	400	450	500
	L	188	238	288	338	388	438	488	538	588	638
	A	50	100	100	200	200	300	300	400	400	500
	В	35	85	85	185	185	285	285	385	385	485
	С	25	50	50	50	50	50	50	50	50	50
	D	0	0	1	1	2	2	3	3	4	4
	E	50	100	50	100	50	100	50	100	50	100
	F	8	8	10	10	12	12	14	14	16	16
	G	-	1	1	2	2	3	3	4	4	5
	Н	50	50	100	50	100	50	100	50	100	50
	J	134	184	234	284	334	384	434	484	534	584
	K	158	208	258	308	358	408	458	508	558	608
	M	6	6	6	8	8	10	10	12	12	14
Mass	Without brake	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.1
(kg)	With brake	1.5	1.6	1.7	1.8	1.8	1.9	2.0	2.1	2.2	2.3

Applicable Controllers The RCP5 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use

Name	External view	Model number	Max. number of controlled axes	Maximum number of positioning points	Input power	Standard price	Reference page
Positioner type (High-output specification)	ii)	PCON-CA-35PWAI-①-2-0		512 mainte		-	
Pulse train type (High-output specification)		PCON-CA-35PWAI-PL [®] -2-0	1	512 points		-	→P. 69
Network type (High-output specification)		PCON-CA-35PWAI0-0		768 points	DC24V	-	
Solenoid valve multi-axis type (PIO specification)	1000	MSEP	C: 8 (4 when high-output enabled)	3 points			→P. 77
Solenoid valve multi-axis type (Network specification)		MSEP	LC: 6 (3 when high-output enabled)	256 points	1	-	→P. //
Program control multi-axis type		MSEL-PC-1-35PWAI-①-2-4					
Program control multi-axis type (w/network board)		MSEL-PC-1-35PWAI0-4	4	30,000 points	Single-phase AC		→P. 87
Program control multi-axis type (Safety category compliant spec.)	n H	MSEL-PG-1-35PWAI-①-2-4	1 4	30,000 points	100V~230V	-	7P. 87
Program control multi-axis type (Safety category compliant spec. w/network board)		MSEL-PG-1-35PWAI0-4]				

*Above MSEL models are for single-axis specification

*① I/O type (NP/PN)

*(II) Number of axes

**(I) Field network specification code *(I) C or LC *(I) (NPN specification) or P (PNP specification) code *The high output enabled operation is only available when the "High-output setting specs" is selected in the MSEP-C/LC.