RCP5-SA4C ROBO Cylinder, Slider Type, Motor Unit Coupled, Actuator Width 40mm, 24V Pulse Motor

■Model RCP5—SA4C— WA **P3** Applicable Specification Туре – Encoder type – Motor type Stroke Cable length Options 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 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

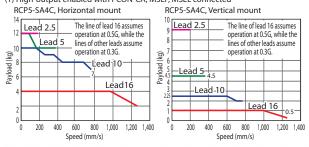




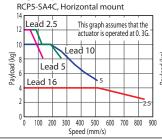
- The actuator specification displays the payload's maximum value, but it will vary depending on the acceleration.
 Please refer to the "Selection Guidelines" (RCP5 Payload by Speed/Acceleration Table) on P. 61.
- (2) Please refer to P. 59 for push-motion operation.

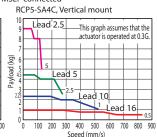
■Correlation Diagrams of Speed and Payload

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



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





Actuator Specifications

■Lead and Payload

Model number		Connected	Maximum payload		Stroke	
		controller	Horizontal (kg)	Vertical (kg)	(mm)	
RCP5-SA4C-WA-35P-16-①-P3-②-③		High-output enabled	4	1		
RCF3-3A4C-WA-33F-10-W-F3-W-W	16	High-output disabled	4	'		
DCDC CAAC WA 25D 10 10 D2 10 10		High-output enabled	10	2.25		
RCP5-SA4C-WA-35P-10-①-P3-②-③	10	High-output disabled	10	2.23	50~500	
RCP5-SA4C-WA-35P-5-①-P3-②-③		High-output enabled	12	4.5	(Every 50mm)	
		High-output disabled	12	4.5		
RCP5-SA4C-WA-35P-2.5-①-P3-②-③		High-output enabled	12	9		
NCF3-3M4C-WM-33P-2.5-W-P3-W-0	2.5	High-output disabled	12	,		

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

■Stroke and Maximum Speed

- /	11	ni	٠.	m	m	1

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

① Stroke

-			
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

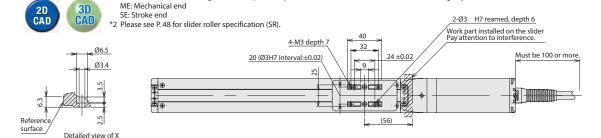
@ - p			
Name	Option code	Reference page	Standard price
Brake	В	→P. 11	-
Cable exit direction (Top)	CJT	→P. 11	-
Cable exit direction (Right)	CJR	→P. 11	-
Cable exit direction (Left)	CJL	→P. 11	-
Cable exit direction (Bottom)	CJB	→P. 11	-
Slider roller specification	SR	→P. 11	-
Non-motor end specification	NM	→P. 11	-

Actuator Specifications

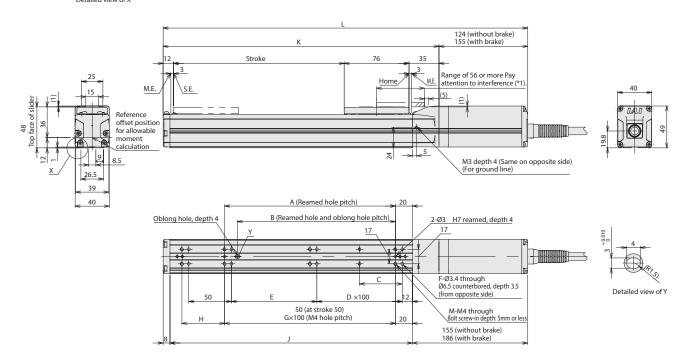
<u> </u>	
ltem	Description
Drive system	Ball screw Ø8mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Dynamic allowable moment (*1)	Ma: 4.98N•m, Mb: 7.11N•m, Mc: 9.68N•m
Static allowable moment	Ma: 8.6N•m, Mb: 12.2N•m, Mc: 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.

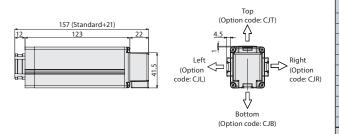
CAD drawings can be downloaded from our website. www.intelligentactuator.com



*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.



■Cable Exit Direction (Option)



■Dimensions and Mass by Stroke

-Differsions and Mass by Stroke										
Stroke	50	100	150	200	250	300	350	400	450	500
Without brake	297	347	397	447	497	547	597	647	697	747
With brake	328	378	428	478	528	578	628	678	728	778
A	50	100	100	200	200	300	300	400	400	500
В	35	85	85	185	185	285	285	385	385	485
C	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	0	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	173	223	273	323	373	423	473	523	573	623
M	6	6	6	8	8	10	10	12	12	14
Without brake	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.8
With brake	1.2	1.3	1.4	1.5	1.5	1.6	1.7	1.8	1.9	2.0
	Stroke Without brake With brake A B C D E F G H J K M Without brake	Stroke 50 Without brake 297 With brake 328 A 50 B 35 C 25 D 0 E 50 F 8 G 0 H 50 J 134 K 173 M 6 Without brake 1.0	Stroke 50 100 Without brake 297 347 With brake 328 378 A 50 100 B 35 85 C 25 50 D 0 0 E 50 100 F 8 8 G 0 1 H 50 50 J 134 184 K 173 223 M 6 6 Without brake 1.0 1.1	Stroke 50 100 150 Without brake 297 347 397 With brake 328 378 428 A 50 100 100 B 35 85 85 C 25 50 50 D 0 0 1 E 50 100 50 F 8 8 10 G 0 1 1 H 50 50 100 J 134 184 234 K 173 223 273 M 6 6 6 Without brake 1.0 1.1 1.2	Stroke 50 100 150 200 Without brake 297 347 397 447 With brake 328 378 428 478 A 50 100 100 200 B 35 85 85 185 C 25 50 50 50 D 0 0 1 1 E 50 100 50 100 F 8 8 10 10 G 0 1 1 2 H 50 50 100 50 J 134 184 234 284 K 173 223 273 323 M 6 6 6 8 Without brake 1.0 1.1 1.2 1.3	Stroke 50 100 150 200 250 Without brake 297 347 397 447 497 With brake 328 378 428 478 528 A 50 100 100 200 200 B 35 85 85 185 185 C 25 50 50 50 50 D 0 0 1 1 2 E 50 100 50 100 50 F 8 8 10 10 12 G 0 1 1 2 2 H 50 50 100 50 100 J 134 184 234 284 334 K 173 223 273 323 373 M 6 6 6 8 8 Without brake 1.0	Stroke 50 100 150 200 250 300 Without brake 297 347 397 447 497 547 With brake 328 378 428 478 528 578 A 50 100 100 200 200 300 B 35 85 85 185 185 285 C 25 50 50 50 50 50 D 0 0 1 1 2 2 E 50 100 50 100 50 100 F 8 8 10 10 12 12 G 0 1 1 2 2 3 H 50 50 100 50 100 50 J 134 184 234 284 334 384 K 173 223 273 <	Stroke 50 100 150 200 250 300 350 Without brake 297 347 397 447 497 547 597 With brake 328 378 428 478 528 578 628 A 50 100 100 200 200 300 300 B 35 85 85 185 185 285 285 C 25 50 50 50 50 50 50 D 0 0 1 1 2 2 3 E 50 100 50 100 50 100 50 F 8 8 10 10 12 12 14 G 0 1 1 2 2 3 3 H 50 50 100 50 100 50 100 J	Stroke 50 100 150 200 250 300 350 400 Without brake 297 347 397 447 497 547 597 647 With brake 328 378 428 478 528 578 628 678 A 50 100 100 200 300 300 400 B 35 85 85 185 185 285 285 385 C 25 50 50 50 50 50 50 50 50 D 0 0 1 1 2 2 3 3 3 E 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50 100 50	Stroke 50 100 150 200 250 300 350 400 450 Without brake 297 347 397 447 497 547 597 647 697 With brake 328 378 428 478 528 578 628 678 728 A 50 100 100 200 200 300 300 400 400 B 35 85 85 185 185 285 285 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385 385<

Applicable Controllers

The BCP5 series actuators can be operated by the controllers indicated below Please select the type depending on your intended us

The NCF3 series actuators can be operated by the controllers indicated below. Flease 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)		PCON-CA-35PWAI-①-2-0		F12 mainta		-			
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)	VVI VIII	MSEP	C: 8 (4 when high-output enabled) LC: 6 (3 when high-output enabled)	3 points			→P. 77		
Solenoid valve multi-axis type (Network specification)		MSEP		256 points		-	→P. //		
Program control multi-axis type		MSEL-PC-1-35PWAI-①-2-4	4	30,000 points	Single-phase AC 100V~230V	-	→P. 87		
Program control multi-axis type (w/network board)		MSEL-PC-1-35PWAI0-4							
Program control multi-axis type (Safety category compliant spec.)	n i	MSEL-PG-1-35PWAI-①-2-4							
Program control multi-axis type (Safety category compliant spec. w/network board)	18	MSEL-PG-1-35PWAI0-4							

^{*}Above MSEL models are for single-axis specification

^{*(}I) I/O type (NP/PN)

⁽II) Number of axes

^{*(}III) Field network specification code

*(IV) C or LC

*(IV) N (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.