RCS2-SA4D ROBO Cylinder Slider Type 40mm Width 200V Servo Motor Motor Built-In (Direct Coupled)

 \blacksquare Configuration: RCS2 - SA4D -

I : Incremental A : Absolute 20: 20W Servo 10:10mm 50: 50mm

T1: XSEL-J/K T2: SCON SSEL N : None P : 1m S : 3m BE :Brake (Cable exiting end)
BL :Brake (Cable exiting left)
BR :Brake (Cable exiting right) motor 5: 5mm 300:300mm 2.5:2.5mm M : 5m

X : Custom Length
R : Robot Cable XSEL-P/Q NM:Reversed-home (50mm pitch

* See page Pre-35 for explanation of each code that makes up the configuration name.

increments)

for the 2.5mm-lead model, or when used vertically). These values are the upper limits for the acceleration.



Actuator Specifications ■ Lead and Load Capacity ■ Stroke and Maximum Speed Max. Load Capacity Lead Rated 50 ~ 300 Stroke Model RCS2-SA4D-1 -20-10-2 -3 -4 -5 10 4 19.6 1 50 ~ 300

RCS2-SA4D- 1 -20-5- 2 - 3 - 4 - 5 5 6 2.5 39.2 (50mm RCS2-SA4D-1 -20-2.5-2 -3 -4 -5 4.5 78.4

Legend ① Encoder ② Stroke ③ Compatible controller ④ Cable length ⑤ Options

10	665
5	330
2.5	165
	(Unit: mm/s)

	0.10 =.01				
	Standard Price				
2 Stroke (mm)	① Encoder Type				
2 Stroke (IIIII)	Incremental	Absolute			
	I	A			
50	_	_			
100	_	_			
150	_	_			

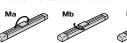
Туре	Cable Symbol	Standard Price		
	P (1m)	_		
Standard	S (3m)	_		
	M (5m)	_		
	X06 (6m) ~ X10 (10m)	_		
Special Lengths	X11 (11m) ~ X15 (15m)	_		
	X16 (16m) ~ X20 (20m)	_		
	R01 (1m) ~ R03 (3m)	_		
	R04 (4m) ~ R05 (5m)	_		
Robot Cable	R06 (6m) ~ R10 (10m)	_		
	R11 (11m) ~ R15 (15m)	_		
	R16 (16m) ~ R20 (20m)	_		

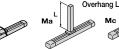
^{*} For cables for maintenance, see page A-39.

⑤ Option List								
Name	Option Code	See Page	Standard Price					
Brake (Cable exiting end)	BE	→ A-25	_					
Brake (Cable exiting left)	BL	→ A-25	_					
Brake (Cable exiting right)	BR	→ A-25	_					
Reversed-home	NM	→ A-33	_					

Actuator Specifications						
Item	Description					
Drive System	Ball screw Ø8mm C10 grade					
Positioning Repeatability	±0.02mm					
Lost Motion	0.1mm or less					
Base	Material: Aluminum (white alumite treated)					
Allowable Static Moment	Ma: 6.9N·m Mb: 9.9N·m Mc: 17.0N·m					
Allowable Dynamic Moment (*)	Ma: 2.7N·m Mb: 3.9N·m Mc: 6.8N·m					
Overhang Load Length	Ma direction: 120mm or less Mb·Mc direction: 120mm or less					
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (Non-condensing)					
(*) Based on 5,000km travel life.	-					

Directions of Allowable Load Moments







250 300



2D CAD

Dimensions

A motor-encoder cable is connected here. See page A-39 for details on cables.

When homing, the slider moves to the ME; therefore, please watch for any interference with the surrounding objects.

ME: Mechanical end SE: Stroke end

Details of section A

Details of section B

Reference position for calculating the moment Ma. 28 70 24 16±0.02 11.5 4-ø3.6 ø6.5 counterbore depth 3.5 (for mounting) 4-M3 depth 7 2-ø3H7 effective depth 5

Secure at least 100 Ma moment offset 70 13 Stroke _13 reference position (2.2) Home ME (2) SE ME. 31.2 T (a) **(4)** Base face Base 50 (when stroke is 50) U×100^p (All strokes except 50) end-face Base end-face 11.8 11.8

P (pitch for ø3 hole and oblong hole)

N (ø3 hole pitch)

Dimensions of the Brake Section R: Brake cable exiting from right E: Brake cable exiting from rear L: Brake cable exiting from left 40 13.3 3.5 38

m-M3 depth 5

Oblong hole depth 5 from bottom of base

Details of

oblong hole

Adding a brake increases the actuator's overall length (L) by 28mm (41.3mm with the cable coming out its end), and its weight by 0.2kg.

■ Dimensions/Weight by Stroke

2-ø3H7 depth 5 from bottom of base

Stroke	50	100	150	200	250	300		
L	261	311	361	411	461	511		
Α	146	196	246	296	346	396		
M	122	172	222	272	322	372		
N	50	100	100	200	200	300		
Р	35	85	85	185	185	285		
R	22	22	72	22	72	22		
U	-	1	1	2	2	3		
m	4	4	4	6	6	8		
Weight (kg)	0.8	0.9	1.0	1.1	1.2	1.3		

③ Compatible Controllers

The RCS2 series actuators can operate with the controllers below. Select the controller according to your usage.

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Positioner Mode			Positioning is possible for up to 512 points	512 points	Single-Phase AC 100V 360VA max. Single-Phase AC 200V When operating a 150W single-axis model	360VA max. * When operating a 150W single-axis model		
Solenoid Valve Mode		SCON-G-20①-NP-2-②	Operable with same controls as solenoid valve.	7 points			-	→ P547
Serial Communication Type			Dedicated to serial communication	64 points				
Pulse Train Input Control Type			Dedicated to Pulse Train Input	(-)				
Program Control 1-2 Axis Type		SSEL-C-1-20①-NP-2-②	Programmed operation is possible Can operate up to 2 axes	20000 points		-	→ P577	
Program Control 1-6 Axis Type	e mea	XSEL-③-1-20①-N1-EEE-2-④	Programmed operation is possible Can operate up to 6 axes	20000 points			-	→ P587

For SSEL and XSEL, only applicable to the single-axis model.

*① is a placeholder for the encoder type (I: incremental, A: absolute).

*② is a placeholder for the power supply voltage (I: 100V, 2: single-phase 200V, 3: 3-phase 200V).

* ③ is a placeholder for the XSEL type name (J, K, P, or Q).
* ④ is a placeholder for the power supply voltage (1: 100V, 2: single-phase 200V, 3: 3-phase 200V).

⊕

PMEC (AMEC PSEP ASEP ROBO NET ERC2 PCON AGON PSEL ASEL SSEL