# CS2-SA4C

SA4C

Type

ROBO Cylinder, Slider Type, Actuator Width 40mm, 200V Servo Motor, Coupled Motor Specification

**Specification** Items

Encoder type

Motor type 20 : Servo motor 20W WA: Battery-less absolute

16:16mm 10:10mm 5:5mm 2.5:2.5mm

Stroke 50 · 50mm 400:400mm (Can be set in 50mm increments)

Applicable controller T2 · SCON-CB

length

N:No cable P:1m S:3m M:5m XIII: Specified length RIII: Robot cable

Cable

Options Please refer to the options table below.

\*Controller is not included.





Depending on the model there may be some limitations to using the vertical, side, and ceiling mount positions. Please contact for more information regarding mounting positions.

\* This product is equipped with a slot for slider position adjustment (refer to the dimensional drawing on the right page) shown as A in the figure above

## **High Accel./Decel. Option**

(Excludes lead 2.5)

- (1) When the stroke is increased, the maximum speed will drop to prevent reaching a critical rotational speed of the ball screw. Please confirm the maximum speed for the desired stroke in the actuator specifications table below.
- (2) The payload assumes operation at an acceleration of 0.3G (0.2G for lead 2.5) for standard specification, and 1G for high accel./decel. specification (excludes lead 2.5). (The values shown in the table below are the upper limit for the
  - maximum payload even if acceleration/deceleration is decreased.)
- (3) Please refer to our website for more information about push-motion

### Actuator Specification

#### ■Lead and Payload

Model number	Motor (W)	Lead (mm)	Maximun Horizontal (kg)		Rated thrust (N)	Stroke (mm)
RCS2-SA4C- ① -20-16- ② - ③ - ④ - ⑤		16	2.5	0.6	12.25	50~400
RCS2-SA4C- ① -20-10- ② - ③ - ④ - ⑤	20	10	4	1	19.6	
RCS2-SA4C- ① -20-5- ② - ③ - ④ - ⑤		5	6	2.5	39.2	(Every 50mm)
RCS2-SA4C- ① -20-2.5- ② - ③ - ④ - ⑤		2.5	8	4.5	78.4	
Legend: DEncoder type Stroke Applicable controller Cable length Options						

#### ■Stroke and Maximum Speed

Stroke Lead	50~400 (Every 50mm)
16	1,060
10	665
5	330
2.5	165

(Unit: mm/s)

#### ①Encoder Type / ② Stroke

Stroke (mm)	Standard price				
	Encoder type				
	Battery-less absolute				
	WA				
50	-				
100					
150	-				
200	-				
250	-				
300	-				
350	-				
400	-				

#### (A) Cable Length

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

<sup>\*</sup>Please refer to P. 84 for maintenance cables

#### ⑤ Options

Name	Option code	Reference page	Standard price
Brake	В		-
CE marking	CE		-
Foot bracket	FT	Please refer to our	-
High acceleration/deceleration	HA	website for the	-
Home check sensor	HS	details of the	-
Non-motor end specification	NM	options.	-
Slider roller specification	SR		-
Slider spacer	SS	]	-

#### High acceleration/deceleration option and slider roller option cannot be combined together.

#### **Actuator Specifications** Description Drive system Ball screw Ø8mm, rolled C10 Positioning repeatability ±0.02mm 0.1mm or less ost motion Material: Aluminum with white alumite treatment Static allowable moment Ma: 6.90N•m, Mb: 9.90N•m, Mc: 17.0N•m

Ma: 3.29N•m, Mb: 4.71N•m, Mc: 8.07N•m

0 to 40°C, 85% RH or less (Non-condensing)

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

Dynamic allowable moment (\*)

Please refer to our website for more information regarding the service life of the products, directions of the allowable moment, and overhang load length

 <sup>\*</sup> High acceleration/deceleration option cannot be chosen for lead 2.5.

<sup>(\*)</sup> Assumes a standard rated life of 5,000km. The operational life will vary depending on operation and installation conditions.

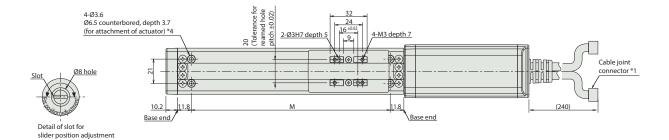
#### Dimensions

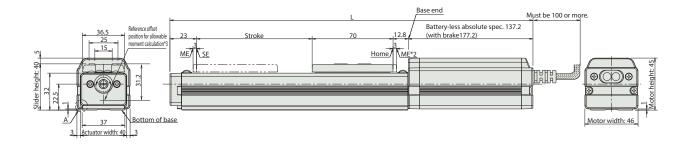
### CAD drawings can be downloaded from our website. www.intelligentactuator.com

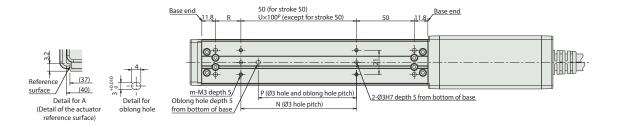




- \*1 Connects the motor-encoder cable. Please refer to P. 84 for the details of the cables. Connects the motor-encoder cable. Please refer to P. 84 for the details of the cables.
  When the slider is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the ME.
  ME: Mechanical end SE: Stroke end
  Reference position used when calculating the Ma moment.
- \*4 When the actuator is mounted only using the mounting holes on the top of the base, the base can be distorted, which could cause sliding error or abnormal noise. When using the mounting holes on the top of the base, please keep the stroke length less than







#### ■Dimensions and Mass by Stroke \*Brake equipped types are 0.3kg heavier.

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	Stroke		50	100	150	200	250	300	350	400
	Battery-less	Without brake	293	343	393	443	493	543	593	643
L	absolute	With brake	333	383	433	483	533	583	633	683
	M		122	172	222	272	322	372	422	472
	N		50	100	100	200	200	300	300	400
Р		35	85	85	185	185	285	285	385	
R		22	22	72	22	72	22	72	22	
	U		-	1	1	2	2	3	3	4
m		4	4	4	6	6	8	8	10	
Mass (kg)		0.7	0.8	0.9	1	1.1	1.2	1.3	1.4	

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