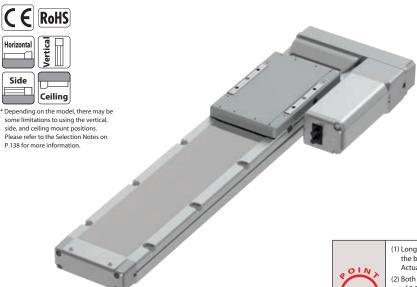
CS4-WSA10R Battery-less Simple Motor 230_v 100 mm Standar Dust-proof AC Servo Motor Absolute Coupled Model Specification RCS4 — WSA10R — Body width Model WA 60 **T2** does not Applicable Controllers Cable Length Options width of the N: None P:1m S:3m M:5m Refer to Options WA: Battery-less Absolute T2:SCON 16: 16mm 50:50mm 60W 10: 10mm 5: 5mm 2.5:2.5mm MSCON SSEL XSEL-P/Q table below. motor. 500:500mm



(1) Longer strokes may cause the maximum speed to decrease due to resonance of the ball screw. Be sure to check the maximum speed of the desired stroke in the Actuator Specifications table, which can be found below.

X□□: Specified Length R□□: Robot Cable

XSEL-RA/SA

- (2) Both the horizontal and vertical payloads assume operation at an acceleration of 0.3G.
- (3) When the acceleration is increased, the payload will be reduced. Please refer to "Table of Payload by Acceleration" on P.139 for more details.
- (4) Estimated allowable duty varies depending on operating conditions (payload, acceleration/deceleration, etc.). Please refer to P. 149 for more information

Actuator Specifications

■ Lead and Payload RC RC RC RC

Model Number	Motor wattage (W)	Lead (mm)	Max. p	ayload Vertical (kg)	Rated thrust	Stroke (mm)	Lead
RCS4-WSA10R-WA-60-16-①-T2-②-③		16	7	_	53		
RCS4-WSA10R-WA-60-10-10-T2-2-3	60	10	16	3	85	50~500 (50mm	
RCS4-WSA10R-WA-60-5-①-T2-②-③	00	5	27	5	170	increments)	
RCS4-WSA10R-WA-60-2.5-①-T2-②-③		2.5	40	10	340		
Legend: Stroke Cable Length Option							

■ Stroke and M	Stroke and Max Speed							
Stroke	50~350 (50mm increments)	400 (mm)	450 (mm)	500 (mm)				
16	960	930	775	660				
10	600	590	490	415				
5	300	290	245	205				
2.5	150	145	120	100				

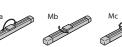
Cable Length	
Туре	Cable Code
	P (1m)
Standard	S (3m)
	M (5m)
Specified length	X06 (6m) ~ X10 (10m)
(Standard cable)	X11 (11m) ~ X15 (15m)
(Standard Cable)	X16 (16m) ~ X20 (20m)
	R01 (1m) ~ R03 (3m)
	R04 (4m) ~ R05 (5m)
Robot cable	R06 (6m) ~ R10 (10m)
	R11 (11m) ~ R15 (15m)
	R16 (16m) ~ R20 (20m)

Options		
Name	Option Code	Reference Page
Brake	В	See P.131
Cable exit direction (Top)	CJT	See P.131
Cable exit direction (Bottom)	СЈВ	See P.131
Cable exit direction (Outside)	CJO	See P.131
Motor side-mounted to left (standard)	ML	See P.135
Motor side-mounted to right	MR	See P.135
Non-motor end specification	NM	See P.136
Slider roller specification	SR	See P.137
Slider spacer	SS	See P.137
(*1) EU option will be available soon.		

Actuator	Snec	ificati	one

Item	Description
Drive system	Ball screw ø8mm, rolled C10
Positioning repeatability	±0.01mm
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Allowable static moment	Ma direction 271N·m, Mb direction 271N·m, Mc direction 553N·m
Allowable dynamic moment (*1)	Ma direction 65.4N·m, Mb direction 65.4N·m, Mc direction 134N·m
Ambient operating temp. & humidity	0~40°C, 85% RH or less (Non-condensing)

- (*1) Assumes a standard rated life of 5000km. The service life will vary depending on operation and installation conditions. Please contact IAI for details of the running life.
- Reference for overhang load length: Ma: 500mm or less, Mb, Mc: 500mm or less Allowable load moment directions Overhang load lengths



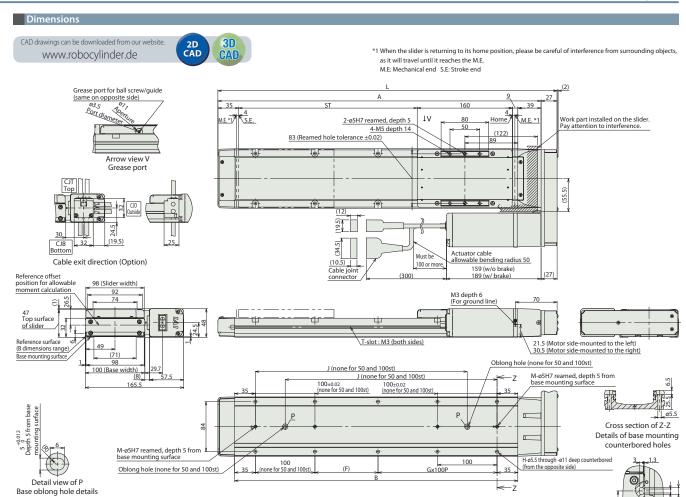




If the load moments in Ma/Mb/Mc direction are within the allowable ranges, there is no overhang load length limit.

Round cable joint connector with screw locking (*1)	EU	See P.131

Detail of side T-slot



■ Dimensions and Mass by Stroke

Stroke	50	100	150	200	250	300	350	400	450	500
L	320	370	420	470	520	570	620	670	720	770
A	293	343	393	443	493	543	593	643	693	743
В	226	276	326	376	426	476	526	576	626	676
F	156	206	56	106	56	106	56	106	56	106
G	0	0	1	1	2	2	3	3	4	4
H	4	4	8	8	10	10	12	12	14	14
J	-	-	206	256	306	356	406	456	506	556
M	1	1	2	2	2	2	2	2	2	2
Mass W/o brake	3.2	3.5	3.7	4.0	4.2	4.5	4.7	4.9	5.2	5.4
(kg) W/ brake	3.5	3.8	4.0	4.3	4.5	4.8	5.0	5.2	5.5	5.7

ne RCS4 series actuators	can be operated	d by the conti	rollers indicated be	low. Please se	elect the type	depending o	n your intended use.															
	External view	Max. number of connectable axes	Input power	Positioner	Control method Positioner Pulse train Program Network * Option			Maximum number of positioning points	Reference page													
SCON-CB/CGB		1		•	•	-	DeviceNet	512 (768 for network spec.)	Please see P.151													
SCON-LC/LCG (*)		1	Single phase 115V/230VAC	-	-	•	CompoNet EtherCAT.	512 (768 for network spec.)	Discounties													
SCON-CAL/CGAL		1		•	_	_		512 (768 for network spec.)														
MSCON-C	器。	6																This model is network-compatible only.			90890	256
SSEL-CS		2		•	-	•	Note: The type of compatible networks will vary depending on the	20000														
XSEL-P/Q or XSEL-RA/SA (*)	Till ta		Single phase 230VAC Three-phase 230VAC		-	•	controller. Please refer to the reference page for more information.	20000 or 55000 (Depending on the type)														