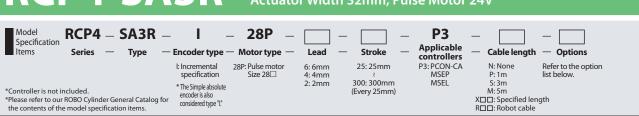
RCP4-SA3R

ROBO Cylinder, Slider Type, Side-mounted Motor Unit, Actuator Width 32mm, Pulse Motor 24V







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



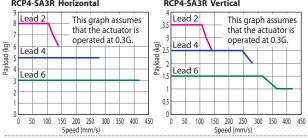
The figure above is the side-mounted motor specification (ML).



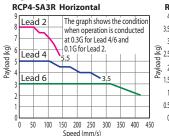
- (1) The actuator specifications displays the payload's maximum value, but it will vary depending on the acceleration. Please refer to "The Tables for Payload by Speed and Acceleration" on P. 13.
- (2) Please refer to "Correlation Diagrams Between Push Force and Current Limit" on P. 14 for push-motion operation.

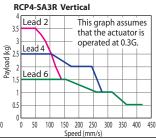
■Correlation Diagrams of Speed and Payload

① High output enabled PCON-CA, MSEP, MSEL connected RCP4-SA3R Horizontal RCP4-SA3R Vertical



②High output disabled PCON-CA, MSEP connected





Actuator Specifications

■Lead and Payload

=======================================									
Model Number	Lead (mm)	Maximum Horizontal (kg)		Stroke (mm)					
RCP4-SA3R-I-28P-6- ① -P3- ② - ③	6	3	1.5						
RCP4-SA3R-I-28P-4- ① -P3- ② - ③	4	5	2.5	25 ~ 300 (Every 25mm)					
RCP4-SA3R-I-28P-2- ① -P3- ② - ③	2	8	3.5						

Legend: Stroke Cable length Options

■Stroke and Max. Speed (Unit: mm/s)

Lead (mm)	High-output Setting	25 ~ 300 (Every 25mm)
	Enabled	420
6	Disabled	420
4	Enabled	280
4	Disabled	200
2	Enabled	140
-	Disabled	140

① Stroke

Stroke (mm)	Standard Price	Stroke (mm)	Standard Price
25	_	175	_
50	_	200	_
75	_	225	_
100	_	250	_
125	_	275	_
150	_	300	_

② Cable Length

Type	Cable Code	Standard Price
	P (1m)	_
Standard Type	S (3m)	_
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Specified 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)	_
ĺ	R16 (16m) ~ R20 (20m)	_
Robot Cable	R01 (1m) ~ R03 (3m) R04 (4m) ~ R05 (5m) R06 (6m) ~ R10 (10m) R11 (11m) ~ R15 (15m)	

* For a maintenance cable, please see the back cover.

③ Options

Name	Option Code	Reference Page	Standard Price
Brake	В		_
Motor Side-mounted to the Left	ML		_
Motor Side-mounted to the Right	MR	Please refer to	_
Home-position Check Sensor (On Left)(*1)	HSL	our ROBO Cylinder General Catalog.	_
Home-position Check Sensor (On Right)(*1)	HSR		_
Non-motor End Specification	NM	catalog.	_
Slider Roller Specification	SR		_
Back Attachment Plate	RP	→P. 8	_

(*1) Select "HSR" when the motor mounted direction is ML and "HSL" when the motor mounted direction is MR.

Actuator Specifications

Item	Description
Drive System	Ballscrew Ø6mm rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Dynamic Allowable Moment (*1)	Ma: 3.82N•m, Mb: 5.45N•m, Mc: 6.10N•m
Static Allowable Moment	Ma: 6.30N·m, Mb: 8.90N·m, Mc: 10.0N·m
Ambient Operating Temperature, Humidity	0 ~ 40°C, 85% RH or less (Non-condensing)

Reference for overhang load length of all 3 directions (Ma, Mb, and Mc): 100mm or less

- (*1) This assumes a standard life of 5,000km. The operational life will vary depending on operation and installation conditions.
- * Please refer to our ROBO Cylinder 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



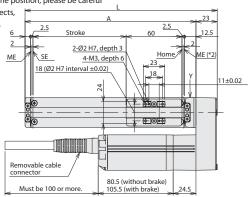
Allowable moment calculation reference point

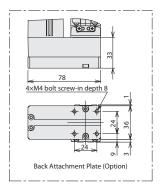
- *1 On the 25mm stroke type, there are six counterbored mounting holes on the bottom of the base, but the two counterbored mounting holes in the middle are not available to be used.
- *2 When the slider is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the ME.

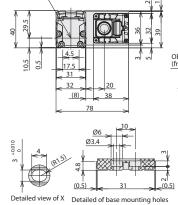
ME : Mechanical end SE : Stroke end

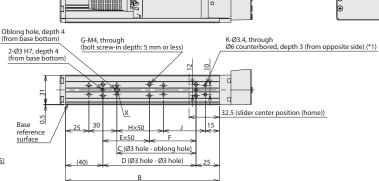
M3, depth 5 (same on opposite side) For ground line

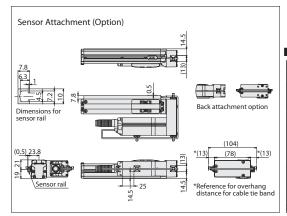
Datailed view of V











■Dimensions and Mass by Stroke

	Stroke	25	50	/5	100	125	150	1/5	200	225	250	2/5	300
	Standard	131.5	156.5	181.5	206.5	231.5	256.5	281.5	306.5	331.5	356.5	381.5	406.5
L	Back Attachment Option	141.5	166.5	191.5	216.5	241.5	266.5	291.5	316.5	341.5	366.5	391.5	416.5
	Α	108.5	133.5	158.5	183.5	208.5	233.5	258.5	283.5	308.5	333.5	358.5	383.5
	В	90	115	140	165	190	215	240	265	290	315	340	365
	С	10	35	60	85	110	135	160	185	210	235	260	285
	D	25	50	75	100	125	150	175	200	225	250	275	300
	E	0	0	0	1	1	2	2	3	3	4	4	5
	F	25	50	75	50	75	50	75	50	75	50	75	50
	G	4	4	4	6	6	8	8	10	10	12	12	14
	Н	0	0	0	1	1	2	2	3	3	4	4	5
	J	(20)	45	70	45	70	45	70	45	70	45	70	45
	K	(6)	6	6	8	8	10	10	12	12	14	14	16
Mass	Without Brake	0.64	0.68	0.71	0.74	0.78	0.81	0.84	0.88	0.91	0.94	0.98	1.01
(kg)	With Brake	0.73	0.77	0.80	0.83	0.87	0.90	0.93	0.97	1.00	1.03	1.07	1.10

Applica	able (Cont	rollers
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The RCP4 series actuators can be operated by the controllers indicated below. Please select the type depending to your intended use.

The fiel 4 series actuators can be operated by the controllers maleated below. I lease select the type depending to your interface 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-28P®-①-2-0		512 point		_	-		
Pulse Train Type High-output Specification		PCON-CA-28PWAI-PL _(//) -2-0	1	-		_			
Network Type High-output Specification		PCON-CA-28P(V)-(II)-0-0		768 point	DC24V	_			
Solenoid Valve Multi-axis Type (PIO Specification)	d vvv 🕫	MSEP	C: 8 (4 when high-output enabled)	3 point	DC24V	-	Please see individual product		
Solenoid Valve Multi-axis Type (Network Specification)	1111	MSEP	LC: 6 (3 when high-output enabled)	256 point					
Program Control Multi-axis Type		MSEL-PC-1-28P(V)-(1)-2-4		30,000 point	Single- phase AC 100V ~230V		catalogs for details		
Program Control Multi-axis Type w/Network Board		MSEL-PC-1-28P(v)-(ii)-0-4	4						
Program Control Multi-axis Type Safety Category Compliant Specification	n I	MSEL-PG-1-28P(\(\varphi\)-(1)-2-4				_			
Program Control Multi-axis Type Safety Category Compliant Spec. w/Network Board	100	MSEL-PG-1-28P(\(\mathbb{0}\)-(\(\mathbb{0}\)-0-4							

*Above MSEL models are for single-axis specification *(1) I/O type (NP/PN)

*(II) Number of axes

* Field network specification code

*® Encoder type: WAI = Incremental / SA=Simple absolute. However, WAI and SA cannot be used together for MSEL

*® Incoder type: WAI = Incremental / SA=Simple absolute. However, WAI and SA cannot be used together for MSEL

*® C (standard type) or LC (PLC function equipped type)

*® N (NPN specification)/P (PNP specification) code

*The high-output enabled operation is only available when the "High-output setting specification" is selected as an option for the MSEP-C/LC.