ROBO Cylinder Mini Slider Type Coupled Motor 22mm Width Pulse Motor Lead Screw RCP3-SA2AC lacktriangledown Configuration: RCP3 - SA2AC -– 20P

Encoder Option 25: 25mm N: None NM : Reversed-home

I: Incremental * The Simple 20P: Pulse motor 4S: 4mm lead screw 20 🗌 size 2S: 2mm lead screw absolute encoder 1S:1mm lead screw is also considered type "I".

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

Technical

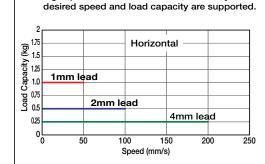
References

100: 100mm (25mm pitch increments)

P1: PCON **RPCON** PSEL P3: PMEC PSEP

P:1m S:3m M:5m X 🗆 : Custom Length

■ Speed vs. Load Capacity Due to the characteristics of the pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your



(1) The load capacity is based on operation at an acceleration of 0.2G. This the upper limit for the acceleration.

- (2) The actuator cannot be used on its side or in a vertical orientation.
- (3) If used in a dusty environment, the service life will decrease significantly.
- (4) This model uses a lead screw, therefore please ensure that your usage is appropriate for its characteristics. (See page Pre-42.)

Actuator Specifications										
■ Lead and Load Capacity ■ Stroke and Maximum Speed										
Model	Feed Screw	Lead (mm)	Max. Load Horizontal (kg)		Positioning Repeatability (mm)	Stroke (mm)	Lead	Stroke	25 (mm)	50 ~ 100 (mm)
RCP3-SA2AC-I-20P-4S-①-②-③-④	Lead screw	4	0.25	-		25~100 (25 increments)	ew.	4	180	200
RCP3-SA2AC-I-20P-2S-①-②-③-④		2	0.5	ı	±0.05			2	100	
RCP3-SA2AC-I-20P-1S-①-②-③-④		1	1	-			Leg	1	5	0
Legend ① Stroke ② Compatible Controller ③ Cable Length ④ Options (Unit: m									(Unit: mm/s)	

全 A-5

① Stroke List						
Standard Price						
_						
_						
_						
_						

3 Cable List							
Туре	Cable Symbol	Standard Price					
Standard (Robot Cables)	P (1m)	_					
	S (3m)	_					
	M (5m)	_					
Special Lengths	X06 (6m) ~ X10 (10m)	_					
	X11 (11m) ~ X15 (15m)	_					
	X16 (16m) ~ X20 (20m)	_					

- * The standard cable for the RCP3 is the robot cable.
- * See page A-39 for cables for maintenance.

Actuator Specifications	
Item	Description
Drive System	Lead screw (Ø4mm, C10 grade)
Lost Motion	0.3mm or less (initial value)
Base	Material: Aluminum (white alumite treated)
Guide	Slide guide
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)
Service Life	10 million cycles

4 Option List			
Name	Option Code	See Page	Standard Price
Reversed-home	NM	→ A-33	_

Dimensions

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

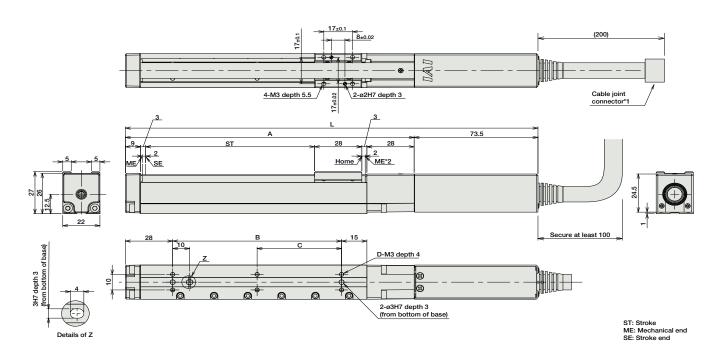
For Special Orders







- *1: A motor-encoder cable is connected here. See page A-39 for details on cables.
- *2: During the homing operation, the slider moves to actuator's mechanical end, and then reverses. Therefore, watch for any interference with its surroundings.



■ Dimensions/Weight by Stroke

Billionsions, Weight by Otloke								
Stroke	25	50	75	100				
L	169.5	194.5	219.5	244.5				
Α	96	121	146	171				
В	25	50	75	100				
С	0	0	0	50				
D	4	4	4	6				
Weight (kg)	0.25	0.27	0.29	0.3				

(2)	Com	noti	blo	Contro	lloro

The RCP3 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	
Solenoid Valve Type	FS1F	PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	_	→ P477	
Soleliold valve Type	1	PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double	3 points			_	→ P487	
Splash-Proof Solenoid Valve Type	I.	PSEP-CW-20PI-NP-2-0	solenoid types. No homing necessary with simple absolute type.				_		
Positioner Type	E	PCON-C-20PI-NP-2-0	Positioning is possible for up	512 points			_		
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	to 512 points				_		
Pulse Train Input Type (Differential Line Driver)			PCON-PL-20PI-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V	2A Max.	_	→ P525
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-NP-2-0	Pulse train input type with open collector support	(=)			_		
Serial Communication Type		PCON-SE-20PI-N-0-0	Dedicated to serial communication	64 points	64 points		_		
Field Network Type		RPCON-20P	Dedicated to field network	768 points			_	→ P503	
Program Control Type		PSEL-C-1-20PI-NP-2-0	Programmed operation is possible. Can operate up to 2 axes	1500 points			_	→ P557	

* This is for the single-axis PSEL.

* ① is a placeholder for the power supply voltage (1: 100V / 2: 100~240V).