CS2-RN5N

Robo Cylinder, Mini Rod Type, Short-Length Tapped-Hole Mounting Type, Actuator Width 46mm, 200V Servo Motor, Ball Screw Specification

Model Specification Items

RCS2 - RN5N -Series — Type

60

60:60W Servo

motor

Notes or

electior

I:Incremental

specification

— Encoder type — Motor type Lead

10:10mm

5: 5mm

2.5:2.5mm

Stroke 50: 50mm

75: 75mm

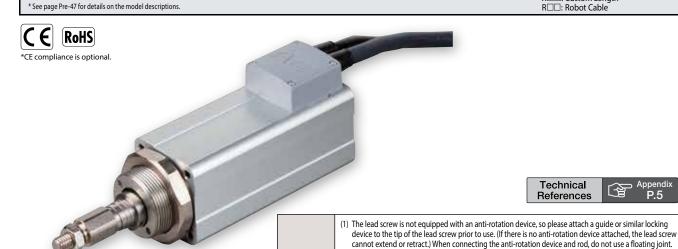
T2 Applicable controller -T2: SCON-CA

Cable length N: None P: 1m

- Options See options below.

SSEL S: 3m XSEL-P/Q

M:5m X□□: Custom Length R□□: Robot Cable



Technical References



(Unit: mm/s)

Please refer to page A-11 for the instruction details. (2) The horizontal payload is the value when the actuator uses an external guide.

- $(3) \ The payload is the value when the actuator is operated at an acceleration of 0.3 G (0.2G for 2.5mm-lead)$ horizontally and 0.2G vertically. The acceleration limit is the value indicated above.
- (4) Do not apply an external force on the rod in any direction other than the direction the rodis moving in.
- (5) If the actuator is used vertically, pay attention to rod contact because the rod will come down when the power is turned off.
- (6) See page A-71 for details on push motion.

Actuator Specifications

■ Leads and Payloads

Model number	Motor output (W)	Feed screw	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Positioning Repeatability (mm)	Stroke (mm)	
RCS2-RN5N-I-60-10-①-T2-②-③	60		10	5	1.5	89			
RCS2-RN5N-I-60-5-①-T2-②-③		60	60	Ball screw	5	10	3	3 178	±0.02
RCS2-RN5N-I-60-2.5-①-T2-②-③			2.5	20	6	356			
Code explanation Stroke Cable length Options *See page A-71 for details on push motion.									

■ Stroke and Maximum Speed

Stroke Lead	50 (mm)	75 (mm)		
10	280 <230>	380 <330>		
5	250 <230>	250		
2.5	125			

* The values enclosed in < > apply to

① Stroke

Stroke (mm)	Standard price
50	_
75	_

② Cable Length

Туре	Cable symbol	Standard Price
	P (1m)	_
Standard	S (3m)	_
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special 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)	_
	R16 (16m) ~ R20 (20m)	_

^{*} See page A-59 for cables for maintenance.

③ Options Option code | See page | Standard price

Brake	В	→ A-42	_
CE compliance	CE	→ A-42	_
Connector cable exits (left)	K1	→ A-51	_
Connector cable exits (front)	K2	→ A-51	_
Connector cable exits (right)	К3	→ A-51	_

Actuator Specifications

Metaator Specifications	
ltem	Description
Drive System	Ball screw, ø8mm, rolled C10
Lost Motion	0.1mm or less
Frame	Material: Aluminum, white alumite treated
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service life	5,000km or 50 million cycles

For Special Orders

P.15

This product doesn't come with the screw stopper.

Please add a stopper before use.



www.intelligentactuator.com



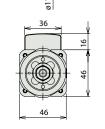
Dimensional Drawings

2D CAD

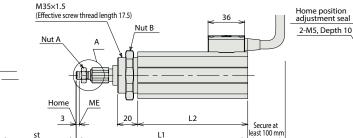
 (*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
 (*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.

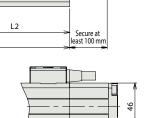
ME : Mechanical end SE: Stroke end (*3) The orientation of the nut varies depending on the product.

M8 (Effective screw thread length 12) (300) Cable joint connector (*) Detailed view A

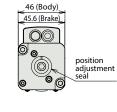


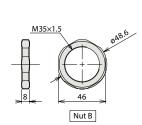
M8×1.25



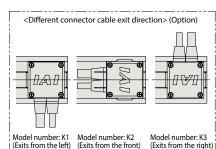


(With Brake size)





13 Nut A



* Brake-equipped models are heavier by 0.26kg.

■ Dimensions and Weight by Stroke					
Stroke	50	75			
L1	168.5	193.5			
L2	108	133			
Weight (kg)	1.0	1.1			

Applicable Controllers

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page		
Positioner Type	Name of the last				Up to 512 positioning points are supported	512 points				
Solenoid mode		SCON CA COLNID 2 ©	Can be operated with the same controls used for solenoid valves	7 points	Single- phase 100 VAC	218 VA max.	_	2004		
Network mode		SCON-CA-60I-NP-2-①	Can be moved by direct numerical specification	768 points	Single- phase 200 VAC	on the controller. Refer to the operation manual for details.		→ P643		
Pulse-train input control mode			Can be controlled using pulse trains	(—)			_			
Program control type 1 or 2 axes		SSEL-CS-1-60I-NP-2-①	Program operation is supported Up to two axes can be operated	20,000 points	200 VAC (XSEL-P/ Q only)		_	→ P685		
Program control type 1 or 6 axes	Pilita	XSEL-(I)-1-60I-N1-EEE-2-3	Program operation is supported Up to six axes can be operated	20,000 points			_	→ P695		

*The values of SSEL and XSEL assume a 1-axis specification. *() indicates the type of power-supply voltage (1: 100 V/2: Single-phase 200 V). *(ii) indicates the XSEL type (P/Q).

Please note that this model cannot be connected to the XSEL-P/Q type (5-axis/6-axis), XSEL-R/S type, or MSCON.