* See page Pre-47 for details on the model descriptions

CS2-GD5

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

Model Specification Items

RCS2 - GD5N -Series — Type

— Encoder type —

I:Incremental

specification

60 Motor type

10:10mm

2.5:2.5mm

5mm

60:60W Servo

motor

Stroke

50: 50mm

75: 75mm

Applicable controller T2: SCON-CA SSEL

T2

XSEL-P/Q

Cable length - Options N: None See options below. P: 1m

S: 3m M:5m X□□: Custom Length

R□□: Robot Cable

 $C \in$ RoHS *CE compliance is optional.



Technical References

(Unit: mm/s)

Notes on

- (1) The horizontal payload is the value when used in combination with a guide so that a radial load and moment load are not applied to the rod. See page A-111 for correlation diagrams of the end load and service life when a guide is not installed.
- (2) 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.
- (3) If the actuator is used vertically, pay attention to rod contact because the rod will come down when the power is turned off.
- (4) 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 Capacity Horizontal (kg) Vertical (kg)		Rated thrust (N)	Positioning Repeatability (mm)	Stroke (mm)
RCS2-GD5N-I-60-10-①-T2-②-③			10	5	1.5	89		
RCS2-GD5N-I-60-5-①-T2-②-③	60	Ball screw	5	10	3	178	±0.02	50 75
RCS2-GD5N-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

	3				
ш	W	5	tr	0	KŒ

U Stroke	
Stroke (mm)	Standard price
50	_
75	_

② Cable Length

Туре	Cable symbol	Standard Price
	P (1m)	_
Standard	S (3m)	_
	M (5m)	_
Special length	X06 (6m) ~ X10 (10m)	_
	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.

Service life

③ Options Option code | See page | Standard price

T G T G	option code	occ page	Staridard 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 Item Description Drive System Ball screw, ø8mm, rolled C10 Lost Motion 0.1mm or less Material: Aluminum, white alumite treated Ambient operating temperature, humidity 0 to 40°C, 85% RH or less (Non-condensing) 5,000km or 50 million cycles

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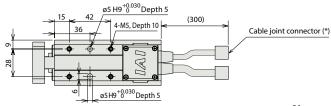


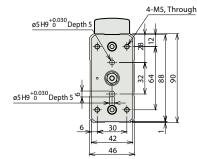


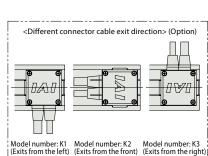


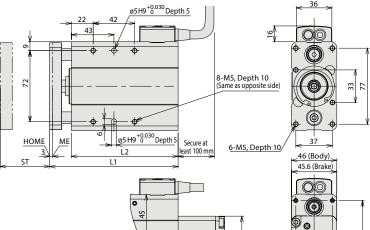
(*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
 (*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.

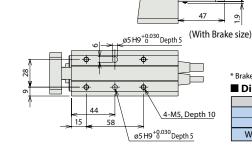
ME: Mechanical end SE: Stroke end











* Brake-equipped models are heavier by 0.26kg.

■ Dimensions and Weight by Stroke					
Stroke	50	75			
L1	130	155			
L2	108	133			
Weight (kg)	1.6	1.9			

0

4-M5, Depth 10

Applicable Controllers

RCS2 series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page	
Positioner Type				Up to 512 positioning points are supported	512 points	Single- phase 100 VAC	218 VA max.		
Solenoid mode			SCON CA COLNID 2 ©	Can be operated with the same controls used for solenoid valves	7 points			_	25.40
Network mode		SCON-CA-60I-NP-2-①	Can be moved by direct numerical specification	768 points	Single- phase	* Varies depending on the		→ P643	
Pulse-train input control mode				Can be controlled using pulse trains	(—)	200 VAC	controller. Refer to the operation	_	
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)	manual for details.	_	→ P685	
Program control type 1 or 6 axes	Pilled	XSEL-(II)-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). *() 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.