Table Arm Flat Type

RCS2-TFA5N

Robo Cylinder, Mini Rod Type, Short-Length Flat type, Actuator Width 95mm, 200V Servo Motor, Ball Screw Specification

Model Specification Items

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

RCS2 — TFA5N — Type — Encoder type — Motor type

I: Incremental

specification

60

60:60W Servo

motor

Lead

10: 10mm

2.5 : 2.5mm

5mm

Stroke

50: 50mm

75: 75mm

T2

Applicable controller T2: SCON-CA SSEL

XSEL-P/Q

Cable length — Options N: None See options below.

P: 1m
S: 3m
M:5m
X: : Custom length
R: : Robot cable

CE RoHS *CE compliance is optional.



Technical References



OIN selection

- (1) The payload is the value when the actuator is operated at an acceleration of $0.3\,\mbox{G}$ (0.2G for 2.5mm-lead) horizontally and 0.2G vertically. The acceleration limit is the value indicated above.
- (2) If the actuator is used vertically, pay attention to rod contact because the rod will come down when the power is turned off.
- (3) 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		Rated thrust (N)	Positioning repeatability (mm)	Stroke (mm)
RCS2-TFA5N-I-60-10-①-T2-②-③	60	Ball screw	10	5	1.5	89	±0.02	50 75
RCS2-TFA5N-I-60-5-①-T2-②-③			5	10	3	178		
RCS2-TFA5N-I-60-2.5-①-T2-②-③			2.5	20	6	356		

■ 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 vertical settings. (Unit: mm/s)

- Stroke	
①Stroke (mm)	Standard price
50	_
75	

②Cable 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

Name	Option code	See page	Standard price		
Brake	В	→ A-42	_		
CE compliance	CE	→ A-42	_		
Connector cable exits from the left	K1	→ A-51	_		
Connector cable exits from the front	K2	→ A-51	_		
Connector cable exits from the right	К3	→ A-51	_		

Actuator Specifications

Item	Description		
Drive System	Ball screw, ø8mm, rolled C10		
Lost Motion	0.1mm or less		
Base	Material: Aluminum, white alumite treated		
Allowable dynamic moment (*)	Ma: 15 N·m, Mb: 15 N·m, Mc: 7.1 N·m		
Allowable static moment	Ma: 38.6 N·m, Mb: 38.6 N·m, Mc: 17.9 N·m		
Overhang load length	Ma direction: 100mm or less, Mb, Mc direction: 100mm or less		
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)		
Service life	5,000km or 50 million cycles		

(*) Based on 5,000km of traveling life

Stroke

12

М

Weight (kg)

50

130

126

108

89

1.4

75

155

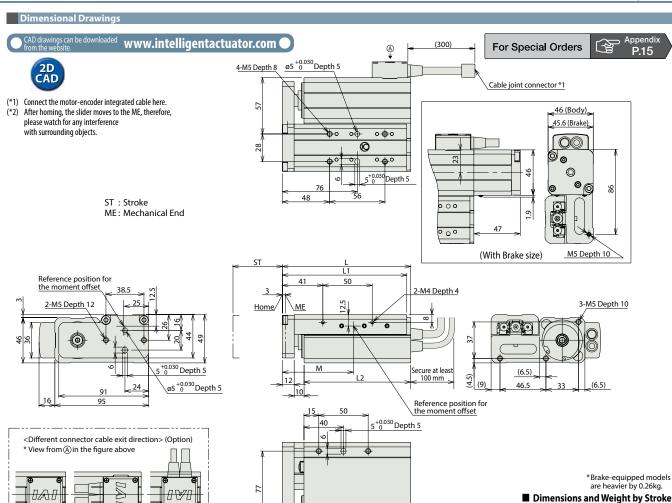
151

133

105.5

1.6

Flat Type



Applicable Controllers

Model number: K1 Model number: K2 Model number: K3 (Exits from the left) (Exits from the front) (Exits from the right)

4-M5 Depth 7.5

ø5^{+0.030}Depth 5

36

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					
Solenoid mode		SCON-CA-60I-NP-2-①	Can be operated with the same controls used for solenoid valves	7 points	Single- phase 100 VAC	218 VA max.	_	, DC42	
Network mode		SCON-CA-OUI-NP-2-(J)	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	3-phase 200 VAC (XSEL-P/ Q only)	manual for details.	_	→ P685	
Program control type 1 or 6 axes	1117:	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.