

RCS2-TFA5N

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

Model Specification Items	RCS2	TFA5N	I	60	<input type="checkbox"/>	<input type="checkbox"/>	T2	<input type="checkbox"/>	<input type="checkbox"/>
	Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controller	Cable length	Options
			I: Incremental specification	60: 60W Servo motor	10: 10mm 5: 5mm 2.5: 2.5mm	50: 50mm 75: 75mm	T2: SCON-CA SSEL XSEL-P/Q	N: None P: 1m S: 3m M: 5m X <input type="checkbox"/> : Custom length R <input type="checkbox"/> : Robot cable	See options below.

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



*CE compliance is optional.



Technical References Appendix P.5



- (1) 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.
- (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 Capacity		Rated thrust (N)	Positioning repeatability (mm)	Stroke (mm)
				Horizontal (kg)	Vertical (kg)			
RCS2-TFA5N-I-60-10- <input type="checkbox"/> -T2- <input type="checkbox"/> - <input type="checkbox"/>	60	Ball screw	10	5	1.5	89	±0.02	50 75
RCS2-TFA5N-I-60-5- <input type="checkbox"/> -T2- <input type="checkbox"/> - <input type="checkbox"/>			5	10	3	178		
RCS2-TFA5N-I-60-2.5- <input type="checkbox"/> -T2- <input type="checkbox"/> - <input type="checkbox"/>			2.5	20	6	356		

Stroke and Maximum Speed

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

Code explanation Stroke Cable length Options *See page A-71 for details on push motion.

*The values enclosed in < > apply to vertical settings. (Unit: mm/s)

① Stroke

① Stroke (mm)	Standard price
50	—
75	—

② Cable Length

Type	Cable symbol	Standard Price
Standard	P (1m)	—
	S (3m)	—
	M (5m)	—
Special length	X06 (6m) ~ X10 (10m)	—
	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
Robot Cable	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
	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	B	→ 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	K3	→ 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

