

RCA2-TFA3N

ROBO Cylinder Mini Table Type Short-Length Flat Model 61mm Width
24V Servo Motor Lead Screw Model

■ Configuration: **RCA2** — **TFA3N** — **I** — **10** — — **30** — — —

Series — Type — Encoder — Motor — Lead — Stroke — Compatible Controllers — Cable Length — Option

I: Incremental
* The simple absolute encoder is also considered type "I".

10: 10W Servo motor

4S: 4mm lead screw
2S: 2mm lead screw
1S: 1mm lead screw

30: 30mm

A1: ACON
RACON
ASEL
A3: AMEC
ASEP

N: None
P: 1m
S: 3m
M: 5m
X : Custom

K2: Connector cable exit direction
LA: Power-saving

* See page Pre-35 for an explanation of the naming convention.



Power-saving

Technical References P. A-5

- POINT**
Notes on Selection
- (1) The load capacity is based on operation at an acceleration of 0.2G. This is the upper limit of the acceleration.
 - (2) This model uses a Lead screw, therefore please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

Actuator Specifications										
■ Lead and Load Capacity										
Model	Motor Output (W)	Feed Screw	Lead (mm)	Max. Load Capacity		Rated Thrust (N)	Positioning Repeatability (mm)	Stroke (mm)	Stroke and Maximum Speed	
				Horizontal (kg)	Vertical (kg)				Lead	Stroke 30 (mm)
RCA2-TFA3N-I-10-4S-30-①-②-③	10	Lead screw	4	0.25	0.125	25.1	±0.05	30 (Fixed)	4	200
RCA2-TFA3N-I-10-2S-30-①-②-③			2	0.5	0.25	50.3			2	100
RCA2-TFA3N-I-10-1S-30-①-②-③			1	1	0.5	100.5			1	50

Legend ① Compatible controller ② Cable length ③ Options (Unit: mm/s)

Stroke List	
Stroke (mm)	Standard Price
30	-

② Cable List		
Type	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 RCA2 comes standard with a robot cable.
* See page A-39 for cables for maintenance.

③ Option List			
Name	Option Code	See Page	Standard Price
Connector cable exit direction	K2	→ A-32	-
Power-saving	LA	→ A-32	-

Actuator Specifications	
Item	Description
Drive System	Lead screw ø4mm C10 grade
Lost Motion	0.3mm or less (initial value)
Frame	Material: Aluminum (white alumite treated)
Allowable Dynamic Moment (Note)	Ma: 9.9 N·m Mb: 9.9 N·m Mc: 3.3 N·m
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)
Service Life	Horizontal: 10 million cycles Vertical: 5 million cycles

(Note) Based on a 5,000 km service life set for the guide.

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RCA2-TFA3N

- Slider Type
- Mini
- Standard
- Controllers Integrated
- Rod Type
- Mini
- Standard
- Controllers Integrated
- Table/Arm /Flat Type
- Mini
- Standard
- Gripper/ Rotary Type
- Linear Servo Type
- Cleanroom Type
- Splash Proof
- Controllers
- PMEC /AMEC
- PSEP /ASEP
- ROBO NET
- ERC2
- PCON
- ACON
- SCON
- PSEL
- ASEL
- SSEL
- XSEL
- Pulse Motor
- Servo Motor (24V)
- Servo Motor (200V)
- Linear Servo Motor

