

RCA2-GS4N

ROBO Cylinder Mini Rod Type Short-Length Free Mounting Type with Single Guide
34mm Width 24V Servo Motor Ball Screw/Lead Screw

■ Configuration: **RCA2** — **GS4N** — **I** — **20** — — **30** — — —

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

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

20 : 20W Servo Motor

6: 6mm ball screw
4: 4mm ball screw
2: 2mm ball screw
6S: 6mm lead screw
4S: 4mm lead screw
2S: 2mm lead screw

30 : 30mm

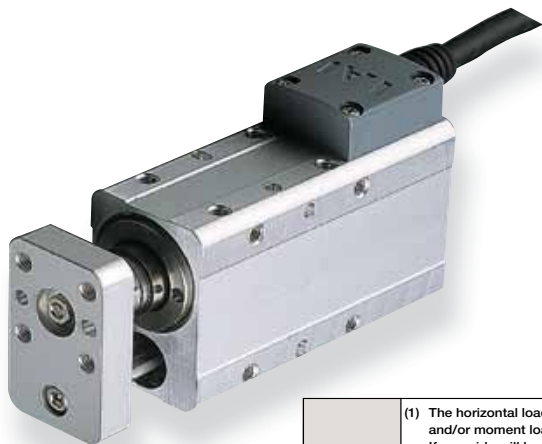
A1 : ACON
RACON
ASEL
A3 : AMEC
ASEP

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 horizontal load capacity is based on the use of a guide to prevent any radial and/or moment load on the rod. If no guide will be installed, see the Tip Load vs. Service Life graph (→ page A-81).
 - (2) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2mm-lead model, lead screw model, or when used vertically). This is the upper limit of the acceleration.
 - (3) When using the lead screw model, please use it for applications that are suitable for its characteristics. (See page Pre-42 for more information.)

Actuator Specifications

■ Lead and Load Capacity										■ Stroke and Maximum Speed			
Model	Motor Output (W)	Feed Screw	Lead (mm)	Max. Load Capacity		Rated Thrust (N)	Positioning Repeatability (mm)	Stroke (mm)	Stroke				
				Horizontal (kg)	Vertical (kg)				Lead	30 (mm)			
RCA2-GS4N-I-20-6-30-①-②-③	20	Ball Screw	6	2	0.5	33.8	±0.02	30 (Fixed)	Ball Screw	6	270 <220>		
RCA2-GS4N-I-20-4-30-①-②-③			4	3	0.75	50.7				4	200		
RCA2-GS4N-I-20-2-30-①-②-③			2	6	1.5	101.5				2	100		
RCA2-GS4N-I-20-6S-30-①-②-③	20	Lead Screw	6	0.25	0.125	19.9	±0.05	30 (Fixed)	Lead Screw	6	220		
RCA2-GS4N-I-20-4S-30-①-②-③			4	0.5	0.25	29.8				4	200		
RCA2-GS4N-I-20-2S-30-①-②-③			2	1	0.5	59.7				2	100		

Legend ① Compatible controller ② Cable length ③ Options

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

Stroke List

Stroke (mm)	Standard Price	
	Ball Screw	Lead Screw
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	Ball screw/lead screw ø6mm C10 grade
Lost Motion	Ball screw: 0.1mm or less/lead screw: 0.3mm or less (initial value)
Frame	Material: Aluminum (white alumite treated)
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)
Service Life	Lead Screw Horizontal: 10 million cycles Vertical: 5 million cycles

