



Technical References

ntrollers ntegrated

Rod
Type

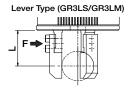
Mini

Standard

Controllers
Integrated

- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of the gripping forces of all fingers with gripping point distance of 10mm and no overhang distance. For the actual transportable work piece weight, see explanation on the right, or page A-77.
- (3) The rated acceleration while moving is 0.3G.

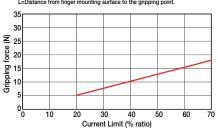
■ Gripping Force vs. Current Limit



- * Please note that, when gripping (pushing), the speed is fixed at 5 degrees/s.
- * The values in the graph below are gripping forces at 10mm gripping point. The actual gripping force decreases inversely proportional to the distance from the opening-floshing point. You can calculate the actual gripping force by the following equation. Actual gripping force (type S)=Px24/(L+14)

Actual gripping force (type M)=P×28.5/(L+18.5) P=Gripping force on graph

L=Distance from finger mounting surface to the gripping point.



Actuator Specifications

■ Lead and Load Canacity

Ecad and Load Capacity				
Model	Deceleration	Max. Gripping	Stroke	
Model	Ratio	Force (N)	(deg)	
RCP2-GR3LS-I-28P-30-19-①-②-③	30	18	19	

■ Stroke and Maxi. Opening/Closing Speed 19 (deg) 30 200

Legend: ① Compatible controllers ② Cable length ③ Options

(Unit: degrees/s)

Stroke List

Stroke (deg)	Standard Price
10	•

② Cable List

Туре	Cable Symbol	Standard Price
	P (1m)	_
Standard Type	S (3m)	-
	M (5m)	-
Special Lengths	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-39 for cables for maintenance.

PMEC
/AMEC
PSEP
/ASEP
ROBO
NET
ERC2
PCON
ACON
SCON
PSEL
ASEL

③ Option List			
Name	Option Code	See Page	Standard Price
Flange bracket	FB	→ A-26	-
Shaft bracket	SB	→ A-36	-

Actuator Specification	ons
Item	Description
Drive System	Worm gear + worm wheel gear
Positioning Repeatability	±0.01 degrees
Backlash	1 degree or less per side (constantly pressed out by a spring)
Lost Motion	0.15 degrees or less per side
Weight	0.6kg
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

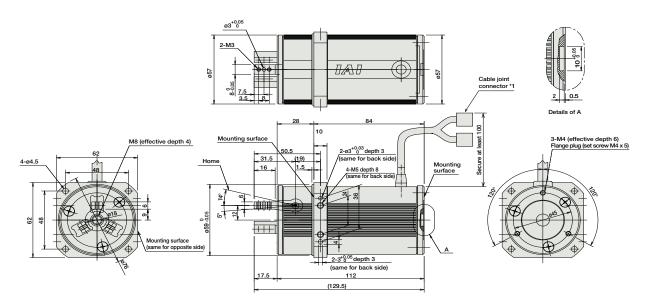


For Special Orders



- When homing, the actuator swings 1 degree past the home position before returning. Therefore, please watch for any interference with the surrounding objects.

 The motor-encoder cable is connected here. See page A-39 for details on
- cables.



Weight (kg) 0.6

The RCP2 serie	es actuators car	operate with the co	ntrollers below. Select the controller a	ccording to your usa	ige.				
Name		Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity		See Page	
Solenoid Valve Type	1100	PMEC-C-28PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
onenoid valve type		PSEP-C-28PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	→ P487	
Splash-Proof Solenoid Valve Type	I	PSEP-CW-28PI-NP-2-0	No homing necessary with simple absolute type.				-	71407	
Positioner Type		PCON-C-28PI-NP-2-0	Positioning is possible for up to 512 points 512 points		512 points	-			
Safety-Compliant Positioner Type		PCON-CG-28PI-NP-2-0	i ostroring is possible for up to 312 points	512 points			-		
Pulse Train Input Type Differential Line Driver)			PCON-PL-28PI-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V	2A max.	-	→ P525
Pulse Train Input Type (Open Collector)			PCON-PO-28PI-NP-2-0	Pulse train input type with open collector support	(-)			-	
Serial communication Type		PCON-SE-28PI-N-0-0	Dedicated to serial communication	64 points				-	
Field Network Type		RPCON-28P	Dedicated to field network	768 points			-	→ P503	
Program Control Type	2	PSEL-C-1-28PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557	

IAI

RCP2-GR3LS **344**

