



Extract of ROBO CYLINDER General Catalog 2007



Controller-Integrated Type



lider

Rod Type

ırm / Flat Type

Gripper / Rotary Type

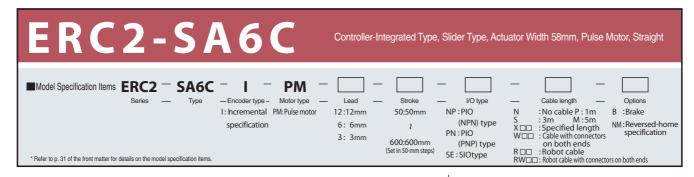
Cleanroom Type

Splash Proof Typo

Controlle

58 mm

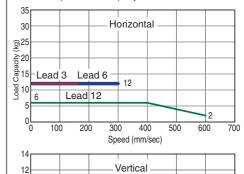
68 mm





■ Correlation Diagram of Speed and Load Capacity

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.





- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 or the actuator is operated vertically). This is the maximum acceleration.

Actuator Specifications Lead and Load Capacity ■ Stroke and Maximum Speed (Note 1) Take note that the maximum load capacity will decrease as the speed increases. Maximum load capacity (Note 1) Stroke (mm) 50 ~ 600 (Set in 50-mm step Horizontal (kg) Vertical (kg) ERC2-SA6C-I-PM-12-1-2-3-4 12 ~6 ~1.5 12 600 515 50 ~ 600 ERC2-SA6C-I-PM-6-1-2-3-4 12 6 ~3 6 300 255 Set in 50-mm steps ERC2-SA6C-I-PM-3-1-2-3-4 12 ~6 3 150 125 (Unit: mm/s) Explanation of numbers Stroke I/O type Cable length Options

(g)

Lead 3

100

Lead 6

300

400

Speed (mm/sec)

500

600

Lead 12

200

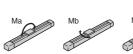
Capacity

Load

Options		
Name	Model	Page
Brake	В	P381
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Allowable load moment	Ma: 8.9N • m Mb: 12.7N • m Mc: 18.6N • m
Overhang load length	Ma direction: 150mm or less, Mb/Mc directions: 150mm or less
Ambient operating temperature, humidity	0~40°C, 85% RH or below (non-condensing)

Direction of allowable load moment



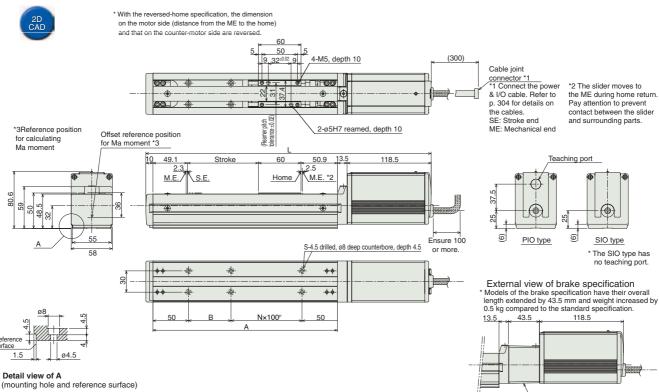






Dimensions





Dimensions and Weight by Stroke

billiensions and weight by Stroke												
Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	352	402	452	502	552	602	652	702	752	802	852	902
Α	210	260	310	360	410	460	510	560	610	660	710	760
В	10	60	10	60	10	60	10	60	10	60	10	60
N	1	1	2	2	3	3	4	4	5	5	6	6
S	6	6	8	8	10	10	12	12	14	14	16	16
Weight (kg)	1.9	2.0	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.3	3.4

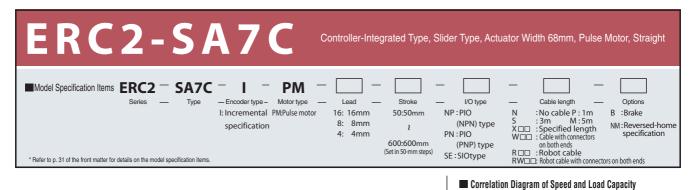
Brake unit

I/O Type (Actuator with Built-In Controller)

I/O Type

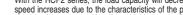
You can select a desired built-in controller of the ERC2 series from among the following three types, each adopting different external input/output (I/O) specifications. Choose the type that best suits you

Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference pag
PIO type (NPN specification)		ERC2-SA6C-I-PM-🗆-🗆-NP-🗆-🗆	Simple control type capable of positioning to a maximum of 16 points	16			
PIO type (PNP specification)		ERC2-SA6C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V	2A max.	→ P295
SIO type		ERC2-SA6C-I-PM-囗-囗-SE-囗-囗	Dedicated field network connection type (using a gateway unit)	64			

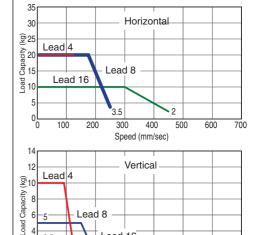








With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.



- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 4 or the actuator is operated vertically). This is the maximum acceleration.

Actuator Specifications ■ Lead and Load Capacity

(Note 1) Take note that the maximum load capacity will decrease as the speed increases.

Model	Lead	Maximum load o	Stroke	
Model	(mm)	Horizontal (kg)	Vertical (kg)	(mm)
ERC2-SA7C-I-PM-16-①-②-③-④	16	~10	~2.5	
ERC2-SA7C-I-PM-8-①-②-③-④	8	~20	~5	50 ~ 600 (Set in 50-mm steps)
ERC2-SA7C-I-PM-4-1-2-3-4	4	20	~10	

Explanation of numbers 1 Stroke 2 I/O type 3 Cable length 4 Options

■ Stroke and Maximum Speed

Lead 16

300

400

Speed (mm/sec)

500

600

200

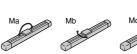
Stroke	50 ~ 600 (Set in 50-mm steps)
16	450 <400>
8	250
4	125

* The figure in <> applies when the actuator is used vertically. (Unit: mm/s)

Options		
Name	Model	Page
Brake	В	P381
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Allowable load moment	Ma: 13.8N • m Mb: 19.7N • m Mc: 29.0N • m
Overhang load length	Ma direction: 150mm or less, Mb/Mc directions: 150mm or less
Ambient operating temperature, humidity	0~40°C, 85% RH or below (non-condensing)

Direction of allowable load moment







Dimensions

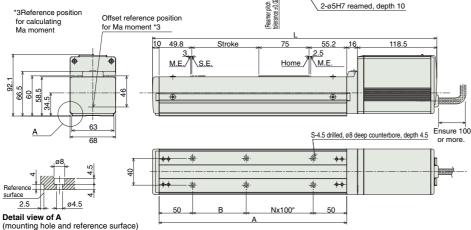
www.intelligentactuator.com

* With the reversed-home specification, the dimension on the motor side (distance from the ME to the home)

65 47^{±0.02} 4-M5, depth 10 (300). 40 47.4 (Reamer pitch tolerance ±0.02) 2-ø5H7 reamed, depth 10

Cable joint connector *1
*1 Connect the power & I/O cable. Refer to p. 304 for details on the cables. SE: Stroke end ME: Mechanical end

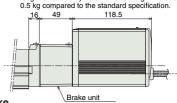
*2 The slider moves to the ME during home return. Pay attention to prevent contact between the slider and surrounding parts.



Te aching port (\bullet) 22.5 (3.5)(3.5)PIO type SIO type The SIO type has no teaching port.

External view of brake specification Models of the brake specification have their overall

length extended by 43.5 mm and weight increased 0.5 kg compared to the standard specification. 49 118.5



Dimensions and Weight by Stroke

450	500		
.00	500	550	600
774.5	824.5	874.5	924.5
630	680	730	780
30	80	30	80
5	5	6	6
14	14	16	16
4.3	4.5	4.6	4.8
	630 30 5 14	630 680 30 80 5 5 14 14	630 680 730 30 80 30 5 5 6 14 14 16

I/O Type (Actuator with Built-In Controller)

You can select a desired built-in controller of the ERC2 series from among the following three types, each adopting different external input/output (I/O) specifications. Choose the type that best suits your

Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page
PIO type (NPN specification)		ERC2-SA7C-I-PM-□-□-NP-□-□	Simple control type capable of positioning to a maximum of 16 points	16			
PIO type (PNP specification)		ERC2-SA7C-I-PM-囗-囗-PN-囗-□	PNP I/O type popular overseas	16	DC24V	2A max.	→P295
SIO type		ERC2-SA7C-I-PM-囗-囗-SE-囗-囗	Dedicated field network connection type (using a gateway unit)	64			

60w

* Refer to p. 31 of the front matter for details on the model specification items

C2-RA6C Controller-Integrated Type, Rod Type, Actuator Width 58mm, Pulse Motor, Straight ■Model Specification Items **ERC2** — **RA6C** ı - Encoder type -I/O type Cable length Motor type Stroke Options I: Incremental PM:Pulse motor 12: 12mm 50:50mm NP:PIO : No cable P : 1m B :Brake 6: 6mm (NPN) type M:5m : 3m M:5m : Specified length : Cable with connectors on both ends : Robot cable specification FT : Foot bracket 3: 3mm PN:PIO NM:Reversed-home 300:300mm



Correlation Diagram of Speed and Load Capacity

 $R \sqcap \sqcap$

(PNP) type

SE:SIOtype

(Set in 50-mm steps)

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.

RW□□: Robot cable with connectors on both ends

specification





- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 or the actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide

Actuator Specifications

■ Lead and Load Capacity

(Note 1) Take note that the maximum load capacity will decrease as the speed increases

Model	Lead (mm)	Maximum load c Horizontal (kg)		Maximum push force (N) (Note 2)	Stroke (mm)
ERC2-RA6C-I-PM-12-①-②-③-④	12	~25	~4.5	78	
ERC2-RA6C-I-PM-6-1-2-3-4	6	~40	~12	157	50 ~ 300 (Set in 50-mm steps)
ERC2-RA6C-I-PM-3-1-2-3-4	3	40	~18	304	

(Note 2) Refer to p. 406 for the graph of push force. Explanation of numbers Stroke I/O type Cable length Options

■ Stroke	and	Maximum	Speed

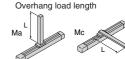
Stroke	50 ~ 600 (Set in 50-mm steps)	600 (mm)
12	600	500
6	300	255
3	150	125
		(Unit: mm/s)

IIIOIOI	Options	
20w		Name
2044	Brake	

Name	Model	Page
Brake	В	P381
Foot bracket	FT	P383
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	ø22mm, dedicated SUS pipe
Rod non-rotation accuracy	±1.5°
Ambient operating temperature, humidity	0~40°C, 85% RH or below (non-condensing)

Direction of allowable load moment







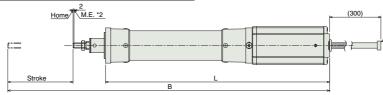
Rotary Type

Proof Type



Do not apply an external force on the rod in any direction other than the moving direction of the rod.

If the rod receives an external force from the right-angle direction or rotating direction, the detent may be damaged

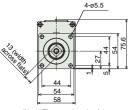


Cable joint *1 Connect the power & I/O cable.
Refer to p. 304 for details on the

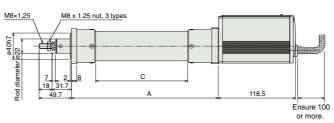
cables.
*2 The slider moves to the ME during home return.

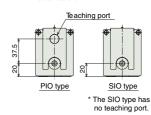
Pay attention to prevent contact between the slider and surrounding parts. ME: Mechanical end





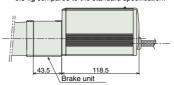
(Note) The actual angle of the across flats surface is slightly different.





External view of brake specification

* Models of the brake specification have their overall length extended by 43.5 mm and weight increased by 0.5 kg compared to the standard specification.



Dimensions and Weight by Stroke

, , , , , , , , , , , , , , , , ,							
Stroke	50	100	150	200	250	300	
L	293.5	343.5	393.5	443.5	493.5	543.5	
Α	175	225	275	325	375	425	
В	393.2	493.2	593.2	693.2	793.2	893.2	
С	91	141	191	241	291	341	
Weight (kg)	1.6	1.7	1.8	2.0	2.1	2.2	

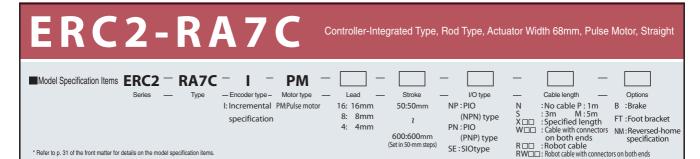
I/O Type (Actuator with Built-In Controller)

I/O Type

You can select a desired built-in controller of the ERC2 series from among the following three types, each adopting different external input/output (I/O) specifications. Choose the type that best suits your

specific purpose.							
	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page
PIO type (NPN specification)		ERC2-RA6C-I-PM-囗-囗-NP-囗-□	Simple control type capable of positioning to a maximum of 16 points	16			
PIO type (PNP specification)		ERC2-RA6C-I-PM-囗-囗-PN-囗-□	PNP I/O type popular overseas	16	DC24V	2A max.	→P295
SIO type		ERC2-RA6C-I-PM-囗-囗-SE-囗-囗	Dedicated field network connection type (using a gateway unit)	64			







- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 4 or the actuator is operated vertically). This is the maximum acceleration.

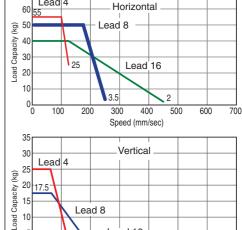
 (4) The horizontal load capacity assumes use of an external guide.

Correlation Diagram of Speed and Load Capacity

Lead 4

٥L

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.



Actuator Specifications ■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases. Maximum load capacity (Note 1) Horizontal (kg) Vertical (kg) force (N) (Note 2) Lead (mm) Stroke (mm) ERC2-RA7C-I-PM-16-1-2-3-4 16 ~40 ~5 220 50 ~ 300 ERC2-RA7C-I-PM-8-1-2-3-4 8 ~17.5 ~50 441 (Set in 50-mm steps ERC2-RA7C-I-PM-4-11-2-3-4 ~55 ~25 873 Explanation of numbers Stroke I/O type Cable length Options (Note 2) Refer to p. 406 for the graph of push force.

■ Stroke and Maximum Speed

Lead 16

400

Speed (mm/sec)

500

600

200

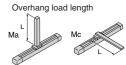
Stroke Lead	50 ~ 600 (Set in 50-mm steps)
12	450 <400>
6	250 <200>
3	125
* The figure in <> emplies u	then the actuator is used vertically (I Init: mm/s)

Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P384
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw ø12mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	ø30mm, dedicated SUS pipe
Rod non-rotation accuracy	±1.5°
Ambient operating temperature, humidity	0~40°C, 85% RH or below (non-condensing)

Direction of allowable load moment





20w

Dimensions





Note

Do not apply an external force on the rod in any direction other than the moving direction of the rod.

If the rod receives an external force from the right-angle direction or

rotating direction, the detent may be damaged.

Home

Home

Stroke

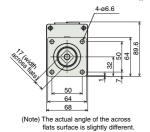
Stroke

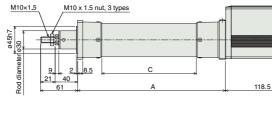
Cable joint connector *1

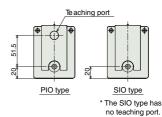
*1 Connect the power & I/O cable.

Refer to p. 304 for details on the cables.
2 The slider moves to the ME during home return.
Pay attention to prevent contact between the slider

between the slider and surrounding parts. ME: Mechanical end



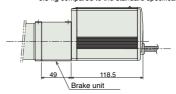




External view of brake specification
* Models of the brake specification have their overall
length extended by 43.5 mm and weight increased by
0.5 kg compared to the standard specification.

Ensure 100

or more.



Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
L	312.5	362.5	412.5	462.5	512.5	562.5
Α	194	244	294	344	394	444
В	423.5	523.5	623.5	723.5	823.5	923.5
С	106	156	206	256	306	356
Weight (kg)	2.7	2.9	3.0	3.2	3.3	3.5

I/O Type (Actuator with Built-In Controller)

I/O Type

You can select a desired built-in controller of the ERC2 series from among the following three types, each adopting different external input/output (I/O) specifications. Choose the type that best suits your specific purpose.

specific purpose	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page
PIO type (NPN specification)	External view	ERC2-RA6C-I-PM-D-D-NP-D-D	Simple control type capable of positioning to a maximum of 16 points	Maximum number of positioning points	пірих роме: Зарріу	т опот зарруу сарасыу	Heldidice page
PIO type (PNP specification)		ERC2-RA6C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V	2A max.	→P295
SIO type		ERC2-RA6C-I-PM-□-□-SE-□-□	Dedicated field network connection type (using a gateway unit)	64			

* Refer to p. 31 of the front matter for details on the model specification items.

RC2-RGS6C

Controller-Integrated Type, Rod Type with Single Guide, Actuator Width 58mm Pulse Motor, Straight

■Model Specification Items ERC2 −RGS6C П

– Encoder type –

Motor type I: Incremental PM:Pulse motor specification

12: 12mm 6: 6mm

3:

(Note 1) Take note that the maximum load capacity will decrease as the speed increases.

3mm

Stroke 50:50mm

600:600mm

(Set in 50-mm steps)

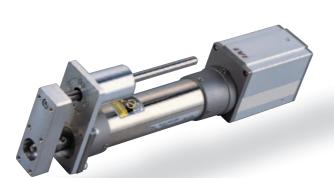
NP:PIO PN:PIO (PNP) type

SE:SIOtype

I/O type (NPN) type

Cable length :No cable P : 1m : 3m M : 5m B :Brake : Specified length : Cable with connectors on both ends : Robot cable FT : Foot bracket $R \sqcap \sqcap$

NM: Reversed-home specification RW□□: Robot cable with connectors on both ends



■ Correlation Diagram of Speed and Load Capacity

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.





- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 or the actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide.

Actuator Specifications

■ Lead and Load Capacity

Model	Loud ,	Maximum load co Horizontal (kg)		Maximum push force (N) (Note 2)	Stroke (mm)	
ERC2-RGS6C-I-PM-12-1-2-3-4	12	~25	~4.5	78		
ERC2-RGS6C-I-PM-6-1-2-3-4	6	~40	~12	157	50 ~ 300 (Set in 50-mm steps)	
ERC2-RGS6C-I-PM-3-1-2-3-4	3	40	~18	304		
Explanation of numbers Stroke I/O type Cable length Options (Note 2) Refer to p. 406 for the graph of push force.						

	Lead	(Oet iii So-iiiiii steps)	
			г

■ Stroke and Maximum Speed

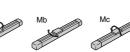
Stroke Lead	50 ~ 250 (Set in 50-mm steps)	300 (mm)
12	600	500
6	300	250
3	150	125
		(I Init: mm/e

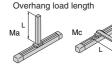
60w

Model	Page
В	P381
FT	P383
NM	P385
	B FT

Actuator Specifications						
Item	Description					
Drive method	Ball screw ø10mm, rolled C10					
Positioning repeatability	±0.05mm					
Backlash	0.1mm or less					
Rod diameter	ø22mm, dedicated SUS pipe					
Rod non-rotation accuracy	±1.5°					
Ambient operating temperature, humidity	0~40°C, 85% RH or below (non-condensing)					

Direction of allowable load moment



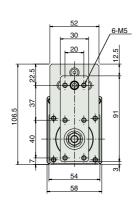


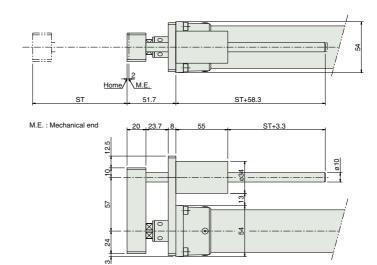




www.intelligentactuator.com







Refer to p. 8 for the actuator dimentions.

Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
Guide weight (kg)	0.2	0.2	0.3	0.3	0.3	0.4
Guide + actuator weight (kg)	1.8	1.9	2.1	2.3	2.4	2.6

I/O Type (Actuator	with I	Built-In	Controller)
------------	----------	--------	----------	-------------

I/O Type

You can select a desired built-in controller of the ERC2 series from among the following three types, each adopting different external input/output (I/O) specifications. Choose the type that best suits your specific purpose.

Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page
PIO type (NPN specification)		ERC2-RGS6C-I-PMNP	Simple control type capable of positioning to a maximum of 16 points	16			
PIO type (PNP specification)		ERC2-RGS6C-I-PMPN	PNP I/O type popular overseas	16	DC24V	2A max.	→ P295
SIO type		ERC2-RGS6C-I-PM-II-II-SE-II-II	Dedicated field network connection type (using a gateway unit)	64			

Controller -Integrated Type

Slider Type

Rod Type

Arm / Flat Type

Gripper Rotary Ty

Cleanroom

Splash Proof Type

contro

58 mm

68 mm

30w

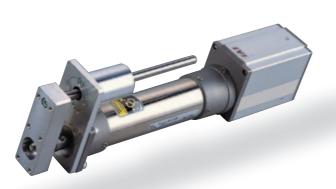
60w

ERC2-RGS6C

* Refer to p. 31 of the front matter for details on the model specification items

C2-RGS7C Controller-Integrated Type, Rod Type with Single Guide, Actuator Width 68mm Pulse Motor, Straight ■Model Specification Items **ERC2** —**RGS7C** П I/O type Cable length – Encoder type – Motor type Stroke Options I: Incremental PM:Pulse motor 16: 16mm 50:50mm NP:PIO : No cable P : 1m B :Brake 8: 8mm (NPN) type M:5m : Sm M: Sm : Specified length : Cable with connectors on both ends : Robot cable : T: Foot bracket : Specification : Specification : T: Foot bracket : Specification : Specifi specification 4: 4mm PN:PIO 600:600mm (PNP) type

(Set in 50-mm steps)



■ Correlation Diagram of Speed and Load Capacity

 $R \sqcap \sqcap$

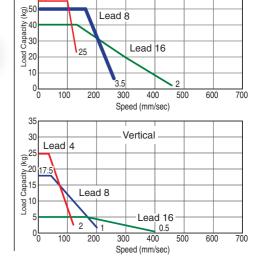
SE:SIOtype

Lead 4 60

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.

Horizontal

RW□□: Robot cable with connectors on both ends



- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 4 or the actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide.

Actuator Specifications

■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases.

Model	Lead (mm)	Maximum load c	1 / /	Maximum push force (N) (Note 2)	Stroke (mm)	
ERC2-RGS7C-I-PM-16-①-②-③-④	16	~40	~5	220	, ,	
ERC2-RGS7C-I-PM-8-1-2-3-4	8	~50	~17.5	441	50 ~ 300 (Set in 50-mm steps)	
ERC2-RGS7C-I-PM-4-1-2-3-4	4	~55	~25	873		
Explanation of numbers ① Stroke ② 1/0 type ③ Cable length ④ Options (Note 2) Refer to p. 406 for the graph of push force.						

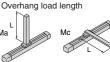
ertical (kg)	Maximum push force (N) (Note 2)	Stroke (mm)		Stroke Lead	50 ~ 300 (Set in 50-mm steps)
~5	220			16	450 <400>
~17.5	441	50 ~ 300 (Set in 50-mm steps)		8	250 <200>
~25	873			4	125
(Note 2) Refe	er to p. 406 for the	graph of push force.		* The figure in <> applies v	when the actuator is used vertically. (Unit: mm/s)

Options						
Name	Model	Page				
Brake	В	P381				
Foot bracket	FT	P384				
Reversed-home specification	NM	P385				

Actuator Specifications	
Item	Description
Drive method	Ball screw ø12mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	ø30mm, dedicated SUS pipe
Rod non-rotation accuracy	±1.5°
Ambient operating temperature, humidity	0~40°C, 85% RH or below (non-condensing)

Direction of allowable load moment





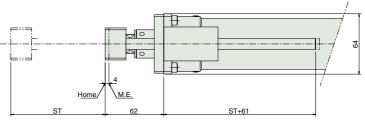


ERC2-RGS7C

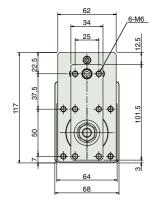


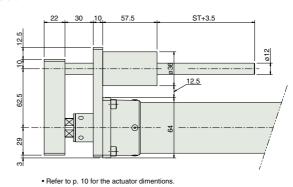
www.intelligentactuator.com





M.E.: Mechanical end





Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
Guide weight (kg)	0.3	0.3	0.4	0.4	0.5	0.5
Guide + actuator weight (kg)	3.0	3.2	3.4	3.6	3.8	4.0

I/O Type									
You can select a desired built-in controller of the ERC2 series from among the following three types, each adopting different external input/output (I/O) specifications. Choose the type that best suits your specific purpose.									
Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference pag		
PIO type (NPN specification)		ERC2-RGS7C-I-PM	Simple control type capable of positioning to a maximum of 16 points	16		2A max.	→ P295		
PIO type (PNP specification)		ERC2-RGS7C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V				
SIO type		ERC2-RGS7C-I-PM-[]-[]-SE-[]-[]	Dedicated field network connection type (using a gateway unit)	64					

ERC2-RGS7C

* Refer to p. 31 of the front matter for details on the model specification items.

lider Type

Rod

rm / Flat Type

Gripper / Rotary Type

Cleanroon Type

Splash Proof Type

mm

mm

ERC2-RGD6C

Controller-Integrated Type, Rod Type with Double Guide, Actuator Width 58mm Pulse Motor, Straight

I/O type

NP:PIO

■Model Specification Items ERC2 —RGD6C I — PM

Encoder type - Motor type I: Incremental PM:Pulse motor specification

- Lead — 12: 12mm 6: 6mm 3: 3mm

(Note 1) Take note that the maximum load capacity will decrease as the speed increases.

- Stroke -50:50mm **

(NPN) type PN : PIO 600:600mm Set in 50-mm steps) (PNP) type SE : SIOtype Cable length

N: No cable P:1m
S:3m M:5m
X: Specified length

■ Correlation Diagram of Speed and Load Capacity

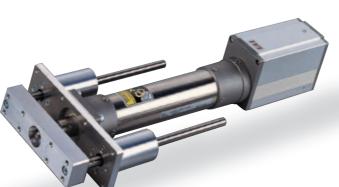
desired speed and load capacity are satisfied.

:No cable P : 1m B :Brake :3m M : 5m :Specified length : Cable with connectors on both ends :Robot cable

Options

on both ends specificatio
R □□: Robot cable
RW□□: Robot cable with connectors on both ends

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the



Load Canacity (kg)

60 Horizontal <u>\$</u>50 Lead 3 Lead 6 Capacity (08 Lead 12 02 gg 10 2.5 100 300 400 600 Speed (mm/sec) 35 Vertical 30

Selection Points

- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 or the actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide.

Actuator Specifications

■ Lead and Load Capacity

Model	Lead	Maximum load c	apacity (Note 1)	Maximum push	Stroke
Iviodei	(mm)	Horizontal (kg)	Vertical (kg)	force (N) (Note 2)	(mm)
ERC2-RGD6C-I-PM-12-1-2-3-4	12	~25	~4.5	78	
ERC2-RGD6C-I-PM-6-1-2-3-4	6	~40	~12	157	50 ~ 300 (Set in 50-mm steps)
ERC2-RGD6C-I-PM-3-1-2-3-4	3	40	~18	304	

Explanation of numbers ① Stroke ② I/O type ③ Cable length ④ Options

Stroke and Maximum Speed Stroke 50 ~ 250

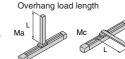
Stroke Lead	50 ~ 250 (Set in 50-mm steps)	300 (mm)
12	600	500
6	300	250
3	150	125
		(Unit: mm/s)

Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P383
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	ø22mm, dedicated SUS pipe
Rod non-rotation accuracy	±1.5°
Ambient operating temperature, humidity	0~40°C, 85% RH or below (non-condensing)

Direction of allowable load moment

(Note 2) Refer to p. 406 for the graph of push force







20w

30w

60w

100w

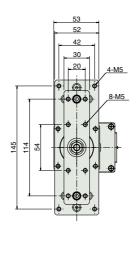
150w

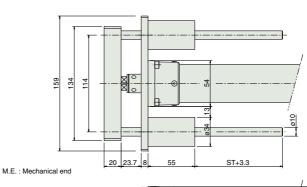


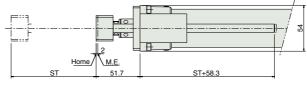


www.intelligentactuator.com









Refer to p. 8 for the actuator dimentions.

■ Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
Guide weight (kg)	0.4	0.4	0.5	0.6	0.6	0.7
Guide + actuator weight (kg)	2.0	2.1	2.3	2.6	2.7	2.9

I/O Type (Actuator with Built-In Controller)

I/O Type

specific purpose.							
Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page
PIO type (NPN specification)		ERC2-RGD6C-I-PM	Simple control type capable of positioning to a maximum of 16 points	16			
PIO type (PNP specification)		ERC2-RGD6C-I-PMPN	PNP I/O type popular overseas	16	DC24V	2A max.	→ P295
SIO type		ERC2-RGD6C-I-PM-囗-D-SE-囗-囗	Dedicated field network connection type (using a gateway unit)	64			

* Refer to p. 31 of the front matter for details on the model specification items

RC2-RGD7C

Controller-Integrated Type, Rod Type, Actuator Width 68mm, Pulse Motor, Straight

■Model Specification Items ERC2 —RGD7C—

- Encoder type - Motor type I: Incremental PM:Pulse motor specification

16: 16mm 8: 8mm 4: 4mm

50:50mm

PN:PIO 600:600mm

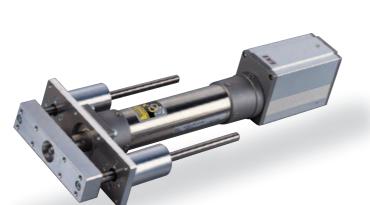
I/O type NP:PIO (NPN) type

(PNP) type SE:SIOtype

Cable length : No cable P : 1m B :Brake M:5m

: Specified length : Cable with connectors on both ends FT :Foot bracket NM: Reversed-home specification : Robot cable RW□□: Robot cable with connectors on both ends

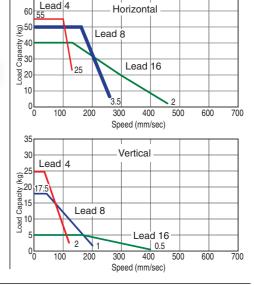
Options



Correlation Diagram of Speed and Load Capacity

 $R \sqcap \sqcap$

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.



- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical
- speed. Use the actuator specification table below to check the maximum speed at the stroke you desire. (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.

 (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 4 or the
- actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide.

Actuator Specifications

■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases.

Model	Lead (mm)	Maximum load c Horizontal (kg)		Maximum push force (N) (Note 2)	Stroke (mm)
ERC2-RGD7C-I-PM-16-1-2-3-4	16	~40	~5	220	
ERC2-RGD7C-I-PM-8-1-2-3-4	8	~50	~17.5	441	50 ~ 300 (Set in 50-mm steps)
ERC2-RGD7C-I-PM-4-1-2-3-4	4	~55	~25	873	

Explanation of numbers ① Stroke ② I/O type ③ Cable length ④ Options

Stroke Lead	50 ~ 300 (Set in 50-mm steps)
16	450 <400>
8	250 <200>
4	125

(Note 2) Refer to p. 406 for the graph of push force. * The figure in <> applies when the actuator is used vertically.

Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P384
Reversed-home specification	NM	P385

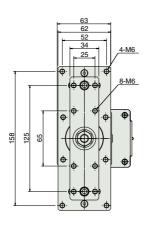
Actuator Specifications	
Item	Description
Drive method	Ball screw ø12mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	ø30mm, dedicated SUS pipe
Rod non-rotation accuracy	±1.5°
Ambient operating temperature, humidity	0~40°C, 85% RH or below (non-condensing)

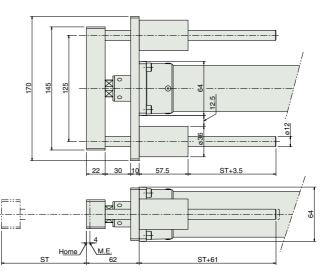
Direction of allowable load moment











M.E.: Mechanical end

• Refer to p. 10 for the actuator dimentions.

Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
Guide weight (kg)	0.5	0.6	0.7	0.8	0.9	1.0
Guide + actuator weight (kg)	3.2	3.5	3.7	4.0	4.2	4.5

I/O Type (Actuator with Built-In Controller)

I/O Type

Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page
PIO type (NPN specification)		ERC2-RGD7C-I-PM-□-□-NP-□-□	Simple control type capable of positioning to a maximum of 16 points	16			
PIO type (PNP specification)		ERC2-RGD7C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V	2A max.	→P295
SIO type		ERC2-RGD7C-I-PM-□-□-SE-□-□	Dedicated field network connection type (using a gateway unit)	64			





Controller



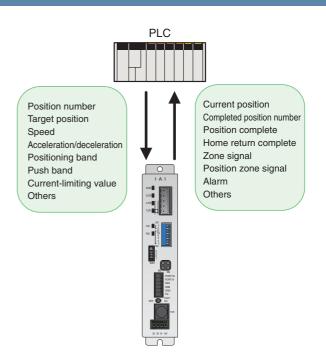
XSEL

Gateway Unit

The gateway unit is a conversion unit for connecting a ROBO Cylinder controller to a field network such as DeviceNet or ProfiBus. Connect a gateway unit to your field network, and link the gateway unit and each controller via serial communication (RS485). Numerical data such as coordinates, speeds, accelerations and current values can be sent and received between the network master (PLC) and controller by means of I/O-level communication.

Features

- Move the actuator by specifying positions from a PLC via network.
- 2. Perform push-motion operation via network.
- Operate the actuator by directly sending the target position, speed, acceleration/deceleration and positioning band as numerical values from a PLC.
- 4. Read the current actuator position and various signals using a PLC.
- 5. Connectable to a maximum of 16 axes.



Functions

One of the following three operation modes can be selected.

(1) Position-number specification mode

Input target positions, speeds, accelerations/decelerations, positioning bands and other settings to the controller in advance as position data, and specify a desired position number via network, just like you do with PIO signals, to move the actuator. A maximum of 64 positioning points can be set. Various status signals can be read using a PLC.

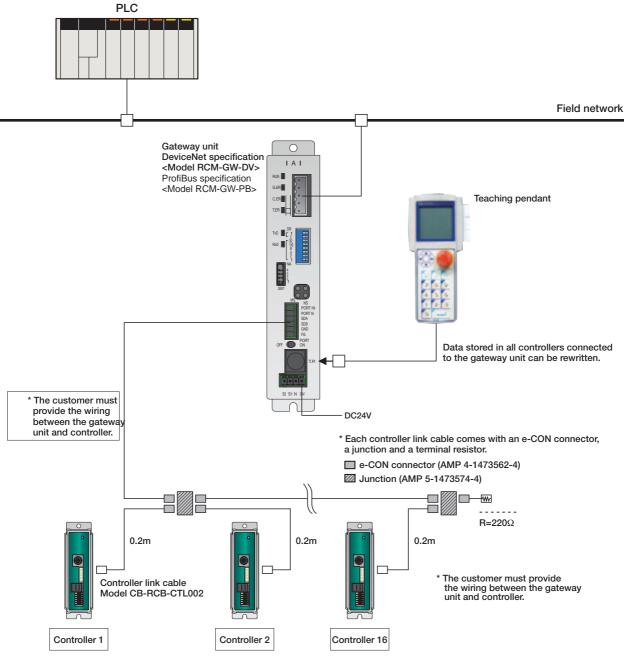
(2) Positioning-data specification mode

Specify a desired target position, speed, acceleration/deceleration, positioning band, push band, current-limiting value, etc., directly as numerical values to move the actuator or cause it to perform push-motion operation. Various status signals can be input/output and current position data read using a PLC.

(3) Simple direct/position-number specification mode

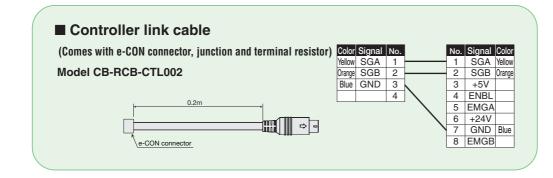
Call desired position data except for a target position (by specifying an applicable position number), and specify only a target position as a numerical value, to move the actuator. A maximum of 512 positioning points can be set.

System Configuration Diagram



Connectable Controllers ERC2 / PCON / ACON / SCON (*1)

(*1) SCON will communicate at the I/O level when connected to the field network even if the gateway unit is not used. It is necessary to use the gateway unit when communicating positional data.



od Se

Arm / Flat Type

Gripper / Rotary Type

Cleanroom Type

> Splash Proof Typo

Controller Models

4 Gater

ERC2

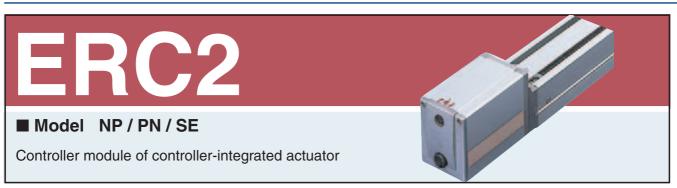
PCO

SCON

PSE

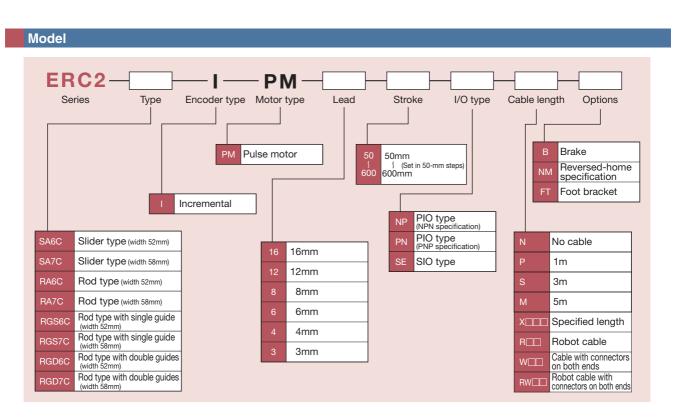
ASE

SSEL

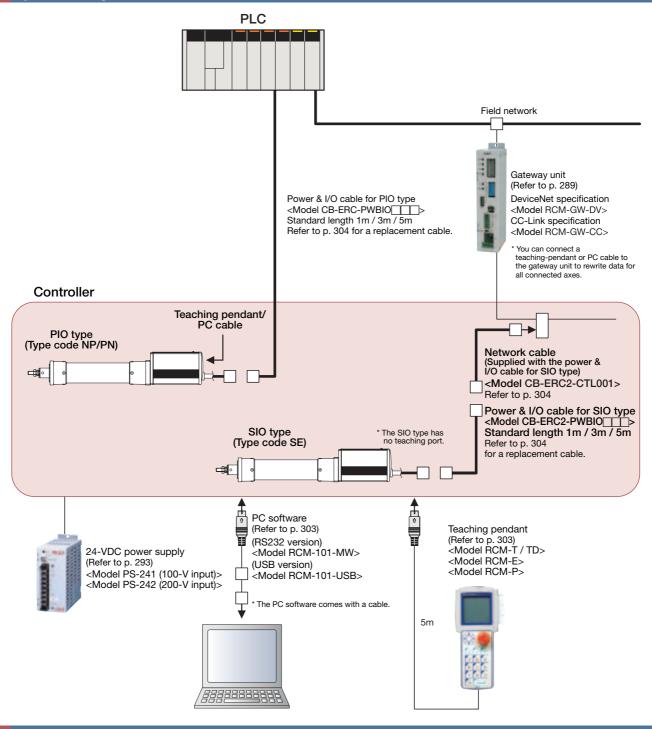


Type List

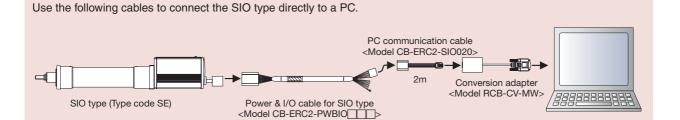
I/O type	NP	PN	SE
Name	PIO type (NPN specification)	PIO type (PNP specification)	Serial communication type
External view			
Description	Move the actuator by specifying position numbers from PLC via PIO	Connected to a field network via a gateway unit	
Number of position points	16 points	64 points	



System Configuration



PC Connection Diagram

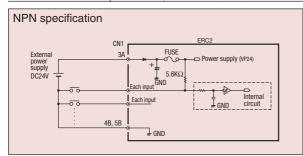


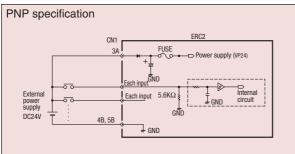
I/O Specifications (PIO Type)

ERC2 Controller

■ Input Part External input specifications

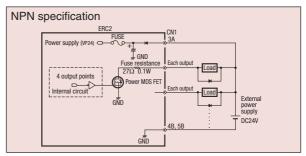
Item	Specification
Number of input points	6 points
Input voltage	24VDC ± 10%
Input current	4mA/circuit
Leak current	1mA max./point
Operating voltage	ON voltage: 18V min. (3.5mA) OFF voltage: 6V max. (1mA)

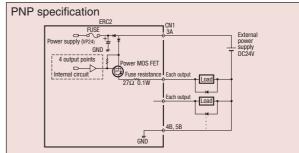




■ Output Part External output specifications

Item	Specification
Number of input points	4 points
Rated load voltage	DC24V
Maximum current	60mA/point
Residual voltage	2V max.
Short-circuit, reverse-voltage protection	Fuse resistance (27Ω0.1W)





I/O Signal Table (PIO Type)

	Parameter (PIO pattern selection)	PIO pattern	Pin number
	0	8-point type	A standard specification providing eight positioning points, plus a home return signal, zone signal, etc. (The parameter has been set to this pattern prior to the shipment.)
Ī	1	3-point type (solenoid valve type)	Simply turn ON three signals of ST0 to ST2 to move the actuator to the corresponding positions (0 to 2), just like you do with solenoid valves. (This allows for easy conversion from air cylinders.)
Ī	2	16-point type (zone signal type)	Up to 16 positioning points can be set. (Same as the 8-point type, except that this pattern provides no home return signal.)
_	3	16-point type (position zone signal type)	A 16-point pattern with a position zone signal instead of a zone signal.

				Parameter (PIO	pattern selection)	
Pin number	Category	Wire color	0	1	2	3
Fill fluifibei	Calegory	wife color	Conventional type	3-point type (solenoid valve type)	16-point type (zone signal type)	16-point type (position zone signal type)
1A	SIO	Orange (red 1)		SC	GA .	
1B	310	Orange (black 1)		SC	GB .	_
2A	24V	Light blue (red 1)		EM	IS1	
2B	0V	Light blue (black 1)	EMS2			
3A	24V	White (red 1)	24V			
3B	0V	White (black 1)	BLK			
4A	24V	Yellow (red 1)	MPI			
4B	0V	Yellow (black 1)	GND			
5A	24V	Pink (red 1)	MPI			
5B	0V	Pink (black 1)		GN	ND	
6A		Orange (red 2)	PC1	ST0	PC1	PC1
6B		Orange (black 2)	PC2	ST1	PC2	PC2
7A	Innut	Light blue (red 2)	PC4	ST2	PC4	PC4
7B	Input	Light blue (black 2)	HOME	_	PC8	PC8
8A]	White (red 2)	CSTR	RES	CSTR	CSTR
8B]	White (black 2)	*STP	*STP	*STP	*STP
9A		Yellow (red 2)	PEND	PE0	PEND	PEND
9B	Output	Yellow (black 2)	HEND	PE1	HEND	HEND
10A	Output	Pink (red 2)	ZONE	PE2	ZONE	PZONE
10B		Pink (black 2)		*Al	LM	

(Note) The signals denoted by an asterisk (*) (ALM/STP) are negative-logic signals that always remain ON.

System Configuration

Category	Signal name	Abbreviation	Function overview
SIO	SIO Serial communication SGA SGB Used in serial co		Used in serial communication.
24V	Emergency stop	EMS1 EMS2	These signals are wired to enable the emergency stop switch on the teaching pendant. (Refer to p. 301)
0V	Brake release	BKR	Connection to 0 V forcibly releases the brake. (150 mA is required)
	Command position number	PC1 PC2 PC4 PC8	Specify a target position number using 4-bit binary signals (or 3-bit binary signals if the 8-point PIO pattern is selected). (Example) Position $3 \rightarrow$ Input PC1 and PC2. Position $7 \rightarrow$ Input PC1, PC2 and PC4.
	Position movement	ST0 ST1 ST2	Turn the ST0 signal ON to move the actuator to position 0. Same for ST1 and ST2. (Operation can be started with these signals alone. No need to input a start signal.)
Input	Home return	HOME	Home-return operation starts at the leading edge of this signal.
	Start	CSTR	Input a command position number signal and turn this signal ON, and the actuator will start moving to the specified position.
	Pause	*STP	This signal is always ON while the actuator is operating normally (negative logic). The actuator starts to decelerate to a stop at the ON → OFF leading edge of this signal.
	Position complete	PEND	This signal turns ON once the actuator has moved to the target position and completed the positioning by entering the specified positioning band. Used to determine if positioning has completed.
	Completed position number PE		PE0 is output upon completion of movement to position 0. Same for PE1 and PE2. (These signals are valid only when the 3-point PIO pattern is selected.)
	Home return complete	HEND	This signal turns ON upon completion of home return.
Output	Zone	ZONE	This signal turns ON upon entry into the zone signal range set by parameters.
	Position zone	PZONE	This signal turns ON upon entry into the zone signal range set by position data.
	Alarm	*ALM	This signal remain ON in normal conditions and turns OFF upon generation of an alarm (negative logic). Synchronized with the LED at the top of the motor cover. (A green light stays on in normal conditions, and a red light comes on upon generation of an alarm.)

 $(Note)\ The\ signals\ denoted\ by\ an\ asterisk\ (*)\ (ALM/STP)\ are\ negative-logic\ signals\ that\ always\ remain\ ON.$

Specification Table

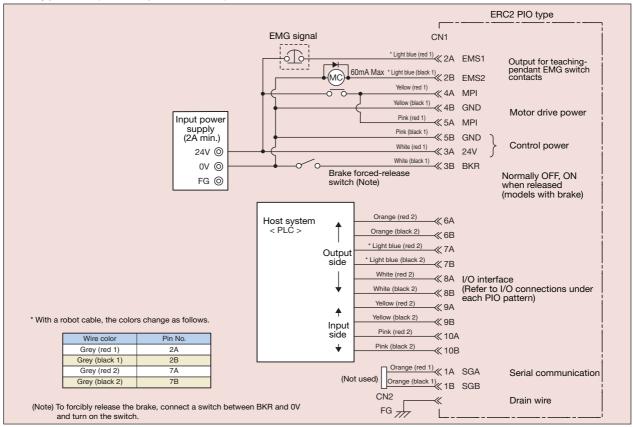
Specificati	an itam	Do	scription			
·						
Control m		PIO specification (NP/PN)	SIO specification (SE)			
		Field-weakening vector control (patent pending)	D 1			
Positioning of		Position number specification	Position number specification/direct numerical specification			
Position no	umbers	Maximum 16 points	Maximum 64 points			
Backup m	nemory	Position number data and parameters are stored Serial EEPROM with a rewrite life of 100,000 tim				
PIC)	6 dedicated input points / 4 dedicated output points	None			
Electromagn	etic brake	Built-in circuit, 24VDC ± 10%, 0.15A max.				
2-color LED	indicator	Servo ON (green), alarm/motor drive-power cuto	ff (red)			
I/F power supp	oly (Note 1)	Same as the control power supply (not insulated)				
Serial comm	nunication	RS485, 1 channel (terminated externally)				
Absolute f	unction	None				
Forced release of elec	ctromagnetic brake	Forcibly released upon connection to 0V (NP) or 24V (PN)	Forcibly released upon connection to 24V			
Cabla Is	an ath	I/F cable: 10m max.				
Cable le	engui	SIO connector communication cable: 5m max.				
Dielectric strer	ngth voltage	DC500V 10MΩ				
EMO	C	EN55011 Class A Group1 (3m)				
Power-suppl	ly voltage	24V±10%				
Power-supp		2A max.				
Ambient operat	ing temperature	0~40°C				
Ambient operation Ambient operating am	ating humidity	85% RH or below (non-condensing)				
Operating am	bience	Free from corrosive gases				
Protection	n class	IP20				

(Note 1) Use an insulated PIO terminal block (optional, refer to p. 302) to insulate the I/F power supply.

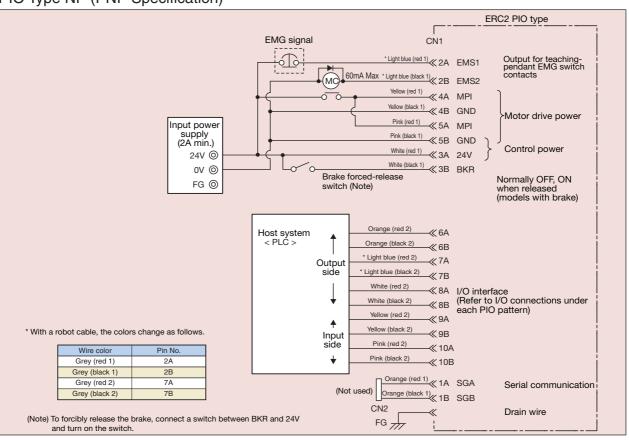
I/O Wiring Diagram

ERC2 Controller

PIO Type NP (NPN Specification)

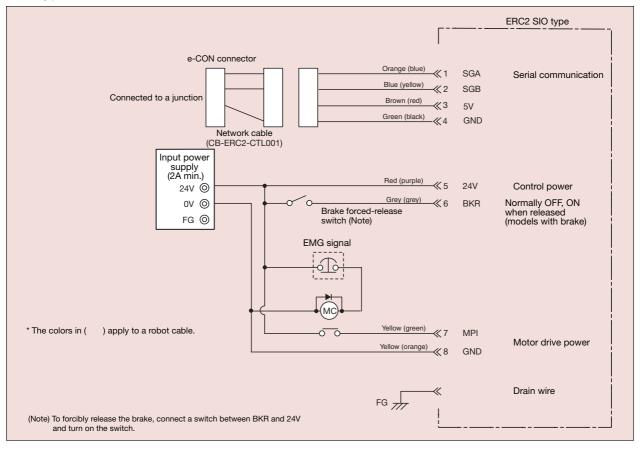


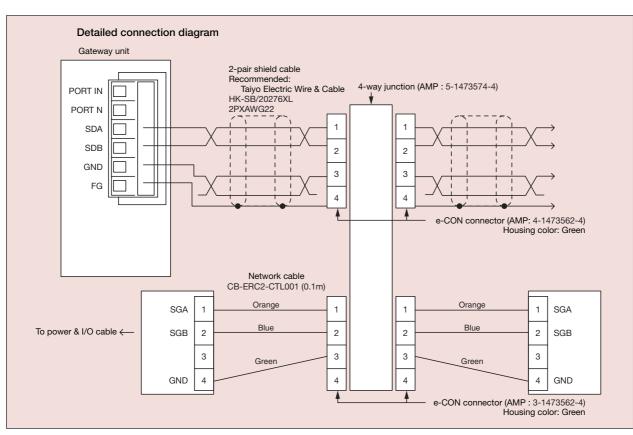
PIO Type NP (PNP Specification)



XSE

SIO Type SE



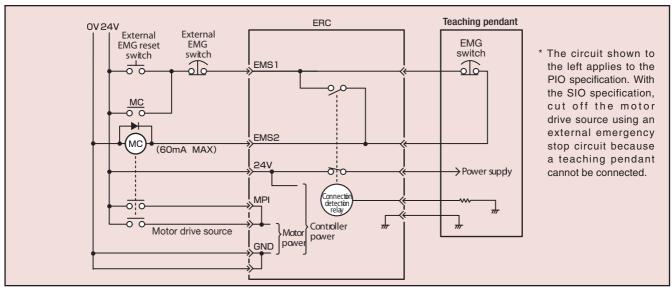


ERC2 Controller

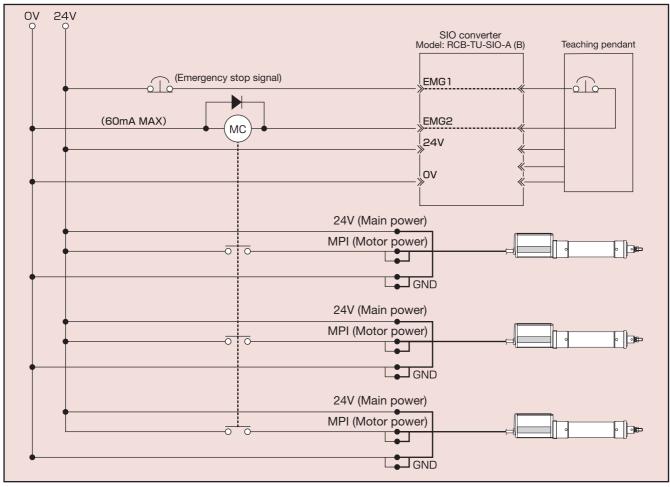
Emergency Stop Circuit

The ERC2 series has no built-in emergency stop circuit, so the customer must provide an emergency stop circuit based on the logic explained below. (The circuit below is simplified for explanation purpose. Provide a ready circuit, etc., according to your specification.)

To provide an emergency stop circuit for a single-axis configuration, operate a relay using the EMS1 and EMS2 Single Axis contacts of the power & I/O cable to cut off MPI (motor power).



To provide an emergency stop circuit for a multiple-axis configuration, operate a relay using the EMG1 and Multiple Axes EMG2 contacts of the SIO converter to cut off MPI (motor power) for each axis.



Options

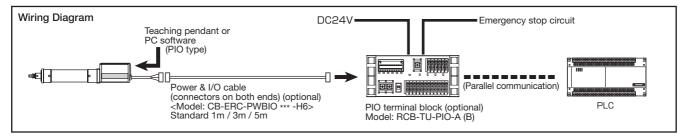
Insulated PIO Terminal Block

This terminal block is used to insulate the I/O power or simplify the wiring with a PLC.

- * When a terminal block is used, the optional power & I/O cable with connectors on both ends must be used.
- Features The input/output ports are non-polar, so the I/O specification of the PLC can be either NPN or PNP.
 - An input/output-signal monitor LED is equipped to check the ON/OFF status of signals.

Specification

ons	ltem		Specification		■ Vertical Specification
	Power-supply voltage		Power-supply voltage DC24V±10%		Model: RCB-TU-PIO-A/AP
	Ambient	t operating temperature,	0~55°C, 85% RH or below		
		humidity	(non-condensing)	Note	
		Number of input points	6 points		
		Input voltage	DC24V±10%	If you are using the	(201)
	Input	Input current	7mA/circuit (bipolar)	ERC2-PN (PNP specification), use	
	part	Allowable leak current	1mA/point (approx. 2mA at normal temperature)	the RCB-TU-PIO-AP/	(44)
		Operating voltage	Input ON: Min16V (4.5mA)	BP (compatible with	■ Horizontal Specification
		(with respect to ground)	Input OFF: Max5V (1.3mA)	PNP specification).	Model: RCB-TU-PIO-B/BP
		Number of output points	4 points	- т. п. организация,	
		Rated load voltage	DC24V		
	Output	Maximum current	60mA/point		(102)
	part	Residual voltage	2V max./60mA		
		Short-circuit, overcurrent protection	Fuse resistance (27Ω, 0.1W)		3



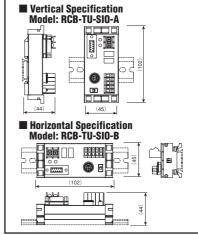
SIO Converter

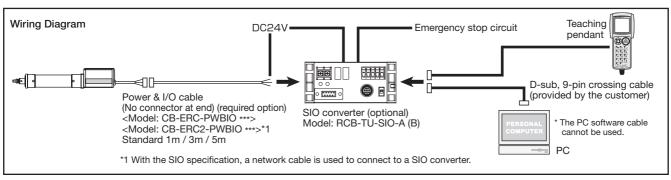
This converter permits RS232 communication by connecting the serial communication line (SGA, SGB) of the power & I/O cable and using a D-sub, 9-pin crossing cable for PC connection.

Features • The connection port for teaching-pendant or PC cable can be installed at any position away from the actuator.

• Multiple axes can be connected and operated from a PC via serial communication.

Specifications	Item	Specification
	Power-supply voltage	DC24V±10%
	Ambient operating	0~55°C, 85% RH or below
	temperature, humidity	(non-condensing)
	Terminal resistor	120Ω(built-in)





Rod Type

ERC2

ERC2 Controller

Options

■ Teaching Pendant

An input device that provides all functions you need for trial operation and adjustment, such as position data input, test operation, as well as monitoring of current axis positions and input/output signals.

Name	Teaching Pendant	Simple teaching pendant	Data setting unit	
Model	RCM-T (standard specification) RCM-TD (with deadman switch *1)	RCM-E	RCM-P	
Standard price	_	_	_	
External view				
Features	A standard, user-friendly teaching pendant equipped with a large LCD screen. A deadman switch type ensuring added safety is also available.	An economical type offering the same functions as the RCA-T at a substantially lower price.	An affordable data setting unit that provides all editing functions other than those relating to axis operation. * This unit does not support operations relating to axis movement.	
Display	21 characters x 16 lines on LCD	16 characters x 2 lines on LCD	16 characters x 2 lines on LCD	
Weight	Approx. 550g	Approx. 400g	Approx. 360g	
Cable length	5m	5m	5m	
Ambient operating temperature, humidity	Ter	mperature: 0~40°C, Humidity: 85% RH or bel	low	
External dimensions	105 9 87 80 94.8	(113.5) 151, 262, 6.3 (113.5) 151, 262, 6.3 (113.5) 151, 262, 6.3 (113.5) 151, 262, 6.3	86 23 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	

*1 The deadman switch is a safety switch that cuts off the drive source when released to disable operation.

■ PC Software

A software program that helps input position data and perform test operation.

It significantly facilitates debugging operation by offering wide-ranging functions including jogging, inching, step operation and continuous operation.

■ USB

■ RS232 Communication Type Model RCM-101-MW

<Content>PC software (CD-ROM), PC cable

(communication cable + RS232 conversion unit)



Communication Type Model RCM-101-USB

<Content>PC software (CD-ROM), PC cable (communication cable + USB conversion unit + USB cable)

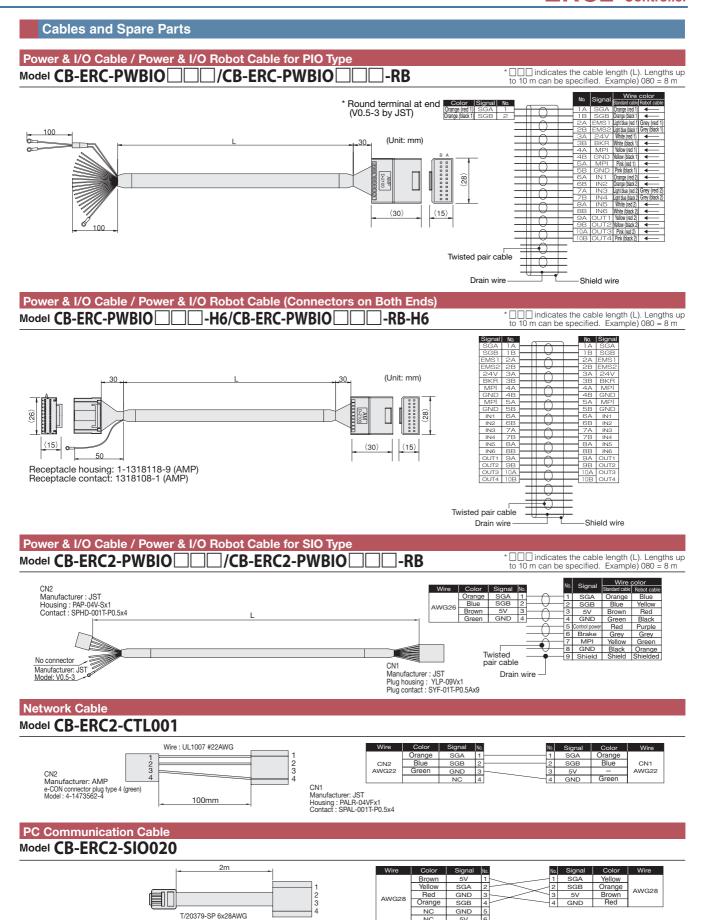


												D 15-31240-1			
Position date[Axis No.0]											3	世 年 小 ◆ 種25-92 現在位置(ma/s) 現在速度(ma/s)	500.01	(745) (745)	# - B · #)
	⅓ Teach	slow	ļ	fast			\$E:		<pre>Alarm</pre>		1	入力4*-+(#10# 北部	(19-3-0) (EM)	出力\$*-+(F104	(*9-)=0) (##)
P	rogram							Start				PCI	OFF	Pat	OFF
	Position	Speed	ACC	Push	Pos. band	MAX ACC	ABS/INC		Comment	^	8	PCZ	OFF	PRE PRE PRE PRES	OFF
٥	[mm]	[mm/s]	[G]	[%]	[mm]	flag	flag		Comment	li li		PC2 PC4	OFF	Per	OFF
D	2.00	600	0.30	0	0.11	0	0					PCS	OFF	PMS	OFF
1	5.00	600	0.30	0	0.11	0	1					PC16	OFF	Patc	OFF
2	-5.00	300	0.30	0	0.11	0	1					PE32	OFF	PHILE	OFF
2	15.00		0.30	0	0.11	0	1					**************************************	OFF .	MEYE	OFF
4	50.00		0.30		30.00	0	n					-	OFF	ZONEL	ON
_	100.01		0.30	2.0	0.11	0	0					*	OFF	PZSNE	OFF
2	100.01	22	0.30	U	0.11					· ·	4	BELD	OFF	FINE NO	ON
	1									>		RHOD	OFF		ON
											_	HOME	OFF	PEND	014
												*ETP	OFF	SY	ON
												COTR	OFF:	*EMGE	ON
													0.00		

Gateway unit

ERC2

ASEI



NC

Manufacturer : JST Housing : PALR-04VFX1 Contact : SPAL-001T-P0.5X4

CN₂

Japan Chain Terminal Modular plug : NTC-66R

ERC2 Series Extract Cat. No. 0307-E

The information contained in this catalog is subject to change without notice for the pupose of product inprovement



Providing quality products since 1986



IAI Industrieroboter GmbH

Ober der Röth 4 D-65824 Schwalbach / Frankfurt Germany Tel.:+49-6196-8895-0

Fax:+49-6196-8895-24 E-Mail: info@IAI-GmbH.de

Internet: http://www.eu.IAI-GmbH.de

IAI America Inc.

2690 W. 237th Street, Torrance, CA 90505, U.S.A Tel.: +1-310-891-6015 Fax: +1-310-891-0815

IAI CORPORATION

645-1 Shimizu Hirose, Shizuoka 424-0102, Japan Tel.: +81-543-64-5105 Fax: +81-543-64-5182