Slider Type

Mini

Standard

Ontrollers tegrated

Rod Type

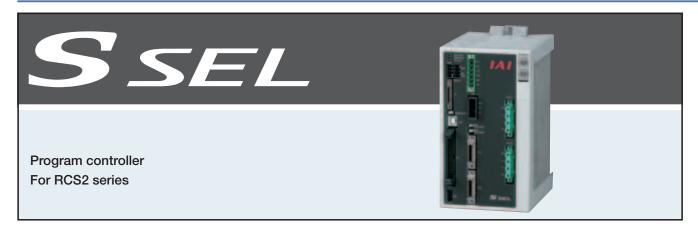
Mini

Standard

Ontrollers tegrated

Table/Arm
/Flat Type

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

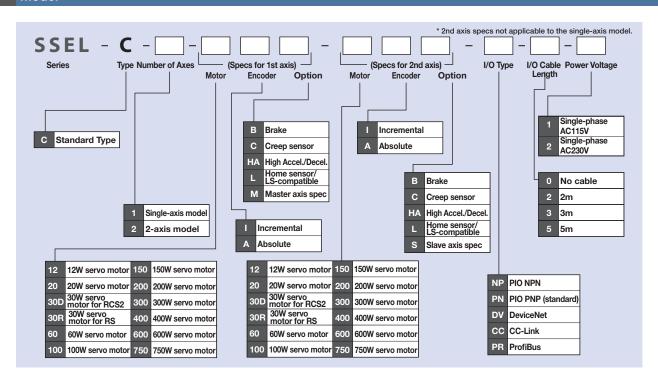


List of models

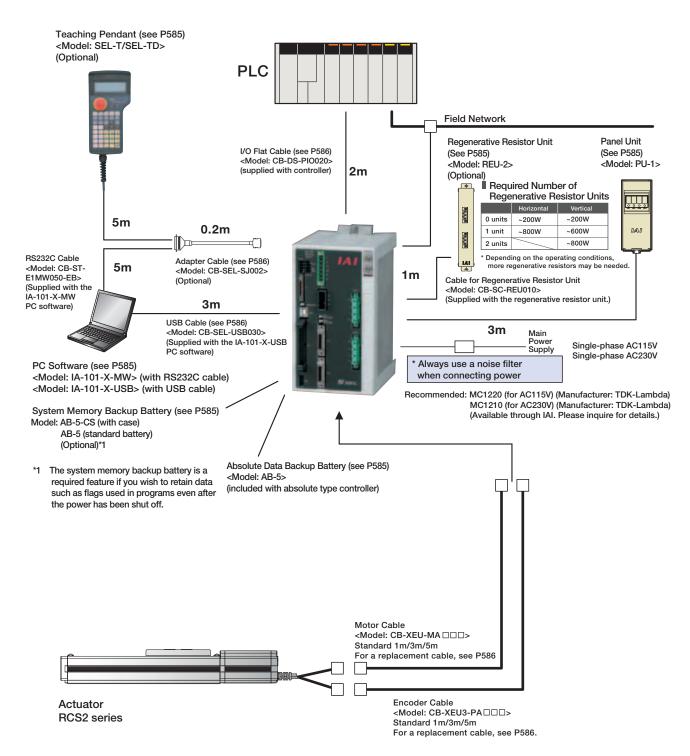
Program controller for operating RCS2 series actuators. One unit can handle various controls.

Туре	С				
Name	Program mode Positioner Mode				
External View					
Description	Both the actuator operation and communication with external equipment can be handled by a single controller. When two axes are connected, are interpolation, path operations, and synchronization can be performed.				
Position points	20000 points				
Number of control axes:	2 axes	s max.			

Model



System configuration



Slider

Mini

Standard

- .

Mini

Controllers

Table/Arm

Mini

a: /

Rotary Type

Linear Motor Type

Cleanroom Type

Splash-Proo

Controllers

OMEO

PSEP

ROBO NET

EDC2

ASEL

SSEL

XSEL

Pulse Moto

Servo Mot

Servo Moto

Linear Mot

Slider
Type

Mini

Standard

Rod
Type

Mini

Standard

Mini

Standard

Antrollers
tegrated

Mini

Standard

Mini

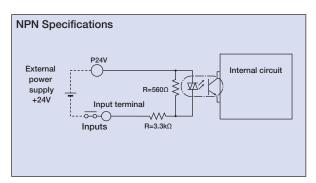
Standard

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

I/O Specifications

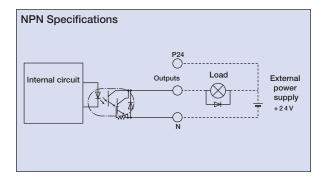
Input section External input specifications

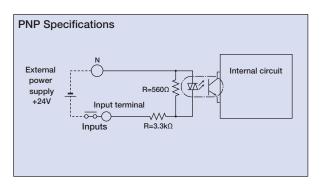
Item	Specifications	
Input voltage	DC24V ±10%	
Input current	7mA / circuit	
ON/OFF voltage	ON voltage (min.)	NPN: DC16V / PNP: DC8V
	OFF voltage (max.)	NPN: DC5V / PNP: DC19V
Isolation method	Photocoupler	

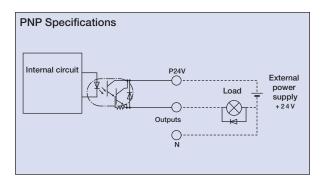


Output section External output specifications

Item	Specifications
Load Voltage	DC24V
Max. load current	100m A / 1point 400mA / 8 points in total
Residual voltage (Max.)	Max 0.1mA / 1 point
Isolation method	Photocoupler







Explanation of I/O Signal Functions

Two modes can be selected for the SSEL controller: "Program Mode," in which the actuator is operated by entering a program, and "Positioner Mode," in which PLC signals are received and the actuator is moved to designated positions. The Positioner Mode has the five input patterns listed below to enable various applications.

■ Control Function by Type

Operati	on mode	Features
Program mode		Various operations including linear/arc interpolation operation, path operation ideal for coating processes, etc., archmotion operation and palletizing operation can be performed using the Super SEL language that lets you program complex control actions using simple commands.
	Standard mode	This is the basic mode from which operations can be conducted by designating position numbers and inputting the start signal. Push-motion operation and teaching operation are also possible.
	Product change mode	Multiple parts of the same shape with slightly different hole positions can be handled using movement commands to the same position numbers by simply changing the product type number.
Positioner mode	2-axis independent mode	With a 2-axis controller, each axis can be commanded and operated separately.
	Teaching mode	In this mode, the slider (rod) moves based on an external signal, when the actuator is stopped, the current position can be registered as position data.
	DS-S-C1 Compatible mode	If you were using a DS-S-C1 controller, you can replace it with a SSEL controller without having to change the host programs. *This mode does not ensure actuator compatibility.

Explanation of I/O Signal Functions

Program mode

Number	Category	Port No.	Program Mode	Functions	NPN* Wiring Diagram
1A	P24		24V input	Connect 24V.	
1B		016	Select Program No. 1		••
2A		017	Select Program No. 2		
2B		018	Select Program No. 4	Octobration and an artist of the second seco	—
3A		019	Select Program No. 8	Selects the program number to start. (Input as BCD values to ports 016 to 022)	
3B		020	Select Program No. 10	(input as BCD values to ports 016 to 022)	
4A		021	Select Program No. 20		
4B		022	Select Program No. 40		
5A		023	CPU reset	Resets the system to the same state as when the power is turned on.	
5B		000	Start	Starts the programs selected by ports 016 to 022.	
6A		001	General-purpose input		
6B		002	General-purpose input		—
7A	Input	003	General-purpose input		
7B	при	004	General-purpose input		
8A		005	General-purpose input		—
8B		006	General-purpose input		—
9A		007	General-purpose input		
9B		800	General-purpose input	Waits for external input via program instructions.	—
10A		009	General-purpose input		—
10B		010	General-purpose input		•••
11A		011	General-purpose input		—
11B		012	General-purpose input		—
12A		013	General-purpose input		
12B		014	General-purpose input		—
13A		015	General-purpose input		
13B		300	Alarm	Turns off when an alarm occurs. (Contact B)	
14A		301	Ready	Turns on when the controller starts up normally and is in an operable state.	
14B		302	General-purpose output	l l	
15A	Output	303	General-purpose output		
15B	Carput	304	General-purpose output	These outputs can be turned ON/OFF as desired via program instructions.	
16A		305	General-purpose output	Those surpus surf se turned on or as desired via program instructions.	
16B		306	General-purpose output		-
17A		307	General-purpose output		
17B	N		0V input	Connect 0V.	

Positioner mode

Pin Number	Category	Port No.	Positioner Standard Mode	Functions	NPN* Wiring Diagram
1A	P24		24V input	Connect 24V.	
1B		016	Position input 10		—
2A		017	Position input 11	Specifies the position numbers to move to, using port number 007 to 019	
2B		018	Position input 12	The number can be specified either as BCD or binary.	
3A		019	Position input 13		
3B		020	Position input 14	-	—
4A		021	Position input 15	-	
4B		022	Position input 16	-	
5A		023	Error reset	Resets minor errors. (Severe errors require a restart.)	
5B		000	Start	Starts moving to selected position.	-
6A		001	Home Return	Performs home return.	-
6B		002	Servo ON	Switches between Servo ON and OFF.	
7A		003	Push	Performs a push motion.	
7B	Input	004	Pause	Pauses the motion when turned OFF, and resumes motion when turned ON.	
8A		005	Cancel	Stops the motion when turned OFF. The remaining motion is canceled.	
8B		006	Interpolation setting	When this signal is turned ON for a 2-axis model, the actuator moves by linear interpolation.	—
9A		007	Position input 1		
9B		800	Position input 2		
10A		009	Position input 3	Consider the position numbers to make the value of 007 to 010	
10B		010	Position input 4	Specifies the position numbers to move to, using ports 007 to 019.	
11A		011	Position input 5	The number can be specified either as BCD or binary.	
11B		012	Position input 6		—
12A		013	Position input 7		
12B		014	Position input 8		
13A		015	Position input 9		
13B		300	Alarm	Turns off when an alarm occurs. (Contact B)	→ 55 →
14A		301	Ready	Turns on when the controller starts up normally and is in an operable state.	
14B		302	Positioning complete	Turns on when the movement to the destination is complete.	
15A		303	Home Return complete	Turns on when the home return operation is complete.	
15B	Output	304	Servo ON output	Turns on when servo is ON.	
16A		305	Pushing complete	Turns on when a push motion is complete.	
16B		306	System battery error	Turns on when the system battery runs low (warning level).	
17A		307	Absolute encoder battery error	Turns on when the battery for the absolute encoder runs low (warning level).	
17B	N		0V input	Connect 0V.	

SSEL **580**

Slider Type

Mini

Standard

Rod Type

Mini

Controllers

Table/Arm /Flat Type

Mini

Gripper/

Rotary Type

Туре

Cleanroom Type

Spiasn-Proo

Controllers

PMEC /AMEC

/ASEP

ERC2

PCON

PSEL

ASEL

Pulse Moto

Servo Moto (24V)

> Servo Moto (230V)

Linear Mot

Slider
Type

Mini
Standard
Controllers
Integrated

Rod
Type

Mini
Standard
Controllers
Integrated

Table/Arm
/Flat Type

Mini
Standard

Gripper/
Rotary Type

Splash-Proof

Controllers

PMEC
/AMEC

PSEP
/ASEP

ROBO
NET

ERC2

PCON

ACON

SCON

PSEL

XSEL

XSEL

Explanation of I/O Signal Functions

Positioner, Product-Type Change Mode

in Number	Category	Port No.	Positioner Product Type Change Mode	Functions	NPN* Wiring Diagram
1A	P24		24V input	Connect 24V.	
1B		016	Position/Product Type Input 10		—
2A		017	Position/Product Type Input 11	Consider the marking promise and to make and the good state and	—
2B		018	Position/Product Type Input 12	Specifies the position numbers to move to, and the product type numbers, using ports 007 to 022.	—
3A] [019	Position/Product Type Input 13	,	—
3B		020	Position/Product Type Input 14	The position and product type numbers are assigned by parameter settings. The number can be specified either as BCD or binary.	—
4A		021	Position/Product Type Input 15	settings. The number can be specified either as BCD or binary.	—
4B		022	Position/Product Type Input 16		—
5A		023	Error reset	Resets minor errors. (Severe errors require a restart.)	—
5B		000	Start	Starts moving to selected position.	—
6A		001	Home Return	Performs home return.	
6B		002	Servo ON	Switches between Servo ON and OFF.	—
7A	Input	003	Push	Performs a push motion.	—
7B	IIIput	004	Pause	Pauses the motion when turned OFF, and resumes motion when turned ON.	-
8A		005	Cancel	Stops the motion when turned OFF. The remaining motion is canceled.	—
8B		006	Interpolation setting	When this signal is turned ON for a 2-axis model, the actuator moves by linear interpolation.	—
9A		007	Position/Product Type Input 1		
9B		800	Position/Product Type Input 2		—
10A		009	Position/Product Type Input 3	Specifies the position numbers to move to, and the product type numbers,	
10B		010	Position/Product Type Input 4	using ports 007 to 022.	—•
11A		011	Position/Product Type Input 5	The position and product type numbers are assigned by parameter settings.	•
11B		012	Position/Product Type Input 6	The number can be specified either as BCD or binary.	—
12A		013	Position/Product Type Input 7	The number can be specified either as DOD or billary.	
12B		014	Position/Product Type Input 8		—
13A		015	Position/Product Type Input 9		
13B		300	Alarm	Turns off when an alarm occurs. (Contact B)	•0.
14A		301	Ready	Turns on when the controller starts up normally and is in an operable state.	—————————————————————————————————————
14B		302	Positioning complete	Turns on when the movement to the destination is complete.	
15A	Output	303	Home Return complete	Turns on when the home return operation is complete.	
15B	Juiput	304	Servo ON output	Turns on when servo is ON.	-
16A]]	305	Pushing complete	Turns on when a push motion is complete.	
16B		306	System battery error	Turns on when the system battery runs low (warning level).	
17A		307	Absolute encoder battery error	Turns on when the battery for the absolute encoder runs low (warning level).	──
17B	N		0V input	Connect 0V.	

Positioner, 2-axis Independent Mode

Pin Number	Category	Port No.	Positioner Independent Mode	Functions	NPN* Wiring Diagram
1A	P24		24V input	Connect 24V.	
1B		016	Position input 7		•
2A		017	Position input 8	Specifies the position numbers to move to, using ports 010 to 022.	•••
2B		018	Position input 9	The position numbers on the 1st and 2nd axes are assigned by	•
3A		019	Position input 10	parameter settings.	•••
3B		020	Position input 11	The number can be specified either as BCD or binary.	•
4A		021	Position input 12		• •
4B		022	Position input 13		•
5A		023	Error reset	Resets minor errors. (Severe errors require a restart.)	•
5B		000	Start 1	Starts the movement to the selected position number on the 1st axis.	• •
6A		001	Home Return 1	Performs Home Return on the 1st axis.	•••
6B		002	Servo ON 1	Switches between servo ON and OFF for the 1st axis.	•
7A	l	003	Pause 1	Pauses the motion on 1st axis when turned OFF, and resumes when turned ON.	•••
7B	Input	004	Cancel 1	Cancels the movement on the 1st axis.	•
8A		005	Start 2	Starts the movement to the selected position number on the 2nd axis.	•••
8B		006	Home Return 2	Performs Home Return on the 2nd axis.	•••
9A		007	Servo ON 2	Switches between servo ON and OFF for the 2nd axis.	•••
9B		800	Pause 2	Pauses the motion on 2nd axis when turned OFF, and resumes when turned ON.	•
10A		009	Cancel 2	Cancels the movement on the 2nd axis.	•••
10B		010	Position input 1	Conscision the procition numbers to prove to vising morte 010 to 000	•
11A		011	Position input 2	Specifies the position numbers to move to, using ports 010 to 022. The position numbers on the 1st and 2nd axes are assigned by	•
11B		012	Position input 3	parameter settings.	• •
12A		013	Position input 4		•••
12B		014	Position input 5	The number can be specified either as BCD or binary.	•
13A		015	Position input 6		
13B		300	Alarm	Turns off when an alarm occurs. (Contact B)	- T
14A		301	Ready	Turns on when the controller starts up normally and is in an operable state.	
14B		302	Positioning complete 1	Turns on when the movement to the specified position on the 1st axis is complete.	
15A	Output	303	Home Return complete 1	Turns on when home return on the 1st axis is complete.	
15B	Juiput	304	Servo ON output 1	Turns on when the 1st axis is in a servo ON state.	
16A		305	Positioning complete 2	Turns on when the movement to the specified position on the 2nd axis is complete.	
16B		306	Home Return complete 2	Turns on when home return on the 2nd axis is complete.	
17A		307	Servo ON output 2	Turns on when the 2nd axis is in a servo ON state.	
17B	N		0V input	Connect 0V.	•

Explanation of I/O Signal Functions

Positioner, Teaching Mode

in Number	Category	Port No.	Positioner Teaching Mode	Functions	NPN* Wiring Diagram
1A	P24		24V input	Connect 24V.	
1B		016	JOG- on 1st axis	While the signal is input, the 1st axis is moved in the - (negative) direction.	
2A		017	JOG+ on 2nd axis	While the signal is input, the 2nd axis is moved in the + (positive) direction.	
2B		018	JOG- on 2nd axis	While the signal is input, the 2nd axis is moved in the - (negative) direction.	
3A		019	Specify inching (0.01mm)		
3B		020	Specify inching (0.1mm)	Specifies how much to move during inching.	
4A		021	Specify inching (0.5mm)	(Total of the values specified for ports 019 to 022)	
4B		022	Specify inching (1mm)		
5A		023	Error reset	Resets minor errors. (Severe errors require a restart.)	
5B		000	Start	Starts moving to selected position.	-
6A		001	Servo ON	Switches between Servo ON and OFF.	•
6B		002	Pause	Pauses the motion when turned OFF, and resumes motion when turned ON.	-
7A	l [003	Position input 1		
7B	Input	004	Position input 2		
8A		005	Position input 3		—
8B		006	Position input 4		
9A		007	Position input 5	Ports 003 to 013 are used to specify the position number to move, and	
9B		008	Position input 6	the position number for inputting the current position.	—•
10A		009	Position input 7	When the teaching mode setting on port 014 is in the ON state, the	
10B		010	Position input 8	current value is written to the specified position number.	
11A		011	Position input 9	· · ·	
11B		012	Position input 10		
12A		013	Position input 11		
12B		014	Teaching mode setting		—•
13A		015	JOG+ on 1st axis	While the signal is input, the 1st axis is moved in the plus direction.	•••
13B		300	Alarm	Turns off when an alarm occurs. (Contact B)	 55
14A		301	Ready	Turns on when the controller starts up normally and is in an operable state.	
14B		302	Positioning complete	Turns on when the movement to the destination is complete.	 5
15A		303	Home Return complete	Turns on when the home return operation is complete.	
15B	Output	304	Servo ON output	Turns on when servo is ON.	
16A		305	-	-	
16B		306	System battery error	Turns on when the system battery runs low (warning level).	 5
17A		307	Absolute encoder battery error	Turns on when the battery for the absolute encoder runs low (warning level).	──
17B	N		0V input	Connect 0V.	

Positioner, DS-S-C1 Compatible Mode

in Number	Category	Port No.	Positioner DS-S-C1 Compatible Mode	Functions	NPN* Wiring Diagram
1A	P24		24V input	Connect 24V.	
1B		016	Position No. 1000	(Same as ports 004 through 015)	•••
2A		017	Position No. 2000	-	
2B		018	Position No. 4000	-	•••
3A		019	Position No. 8000	-	
3B		020	Position No. 10000	-	•••
4A		021	Position No. 20000	-	-
4B		022	NC (*1)	-	
5A		023	CPU reset	Resets the system to the same state as when the power is turned on.	
5B		000	Start	Starts moving to selected position.	
6A		001	Hold (Pause)	Pauses the motion when turned ON, and resumes motion when turned OFF.	-
6B		002	Cancel	Stops the motion when turned ON. The remaining motion is canceled.	-
7A	Input	003	Interpolation setting	When this signal is turned ON for a 2-axis model, the actuator moves by linear interpolation.	
7B	input	004	Position No. 1		•••
8A		005	Position No. 2		•
8B		006	Position No. 4		•••
9A		007	Position No. 8		-
9B		800	Position No. 10	Ports 004 through 016 are used to specify the position number to move.	•
10A		009	Position No. 20	The numbers are specified as BCD.	•••
10B		010	Position No. 40	The humbers are specified as BOD.	
11A		011	Position No. 80		
11B		012	Position No. 100		•••
12A		013	Position No. 200		•••
12B		014	Position No. 400		•••
13A		015	Position No. 800		
13B		300	Alarm	Turns off when an alarm occurs. (Contact A)	→
14A		301	Ready	Turns on when the controller starts up normally and is in an operable state.	
14B		302	Positioning complete	Turns on when the movement to the destination is complete.	
15A	Output	303	-	-	
15B	Juiput	304	-	-	
16A		305	-	=	
16B		306	System battery error	Turns on when the system battery runs low (warning level).	
17A		307	Absolute encoder battery error	Turns on when the battery for the absolute encoder runs low (warning level).	
17B	N		0V input	Connect 0V.	-

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Slider Type

Mini

Controllere

Rod Type

Mini

Controllers

Table/Arm /Flat Type

Mini

Gripper/ Rotary Type

Linear Moto

Туре

Туре

AMEC

ROB0

ERC2

PCON

PSEL

ASEL

Pulse Motor

(24V)

Servo Moto (230V)

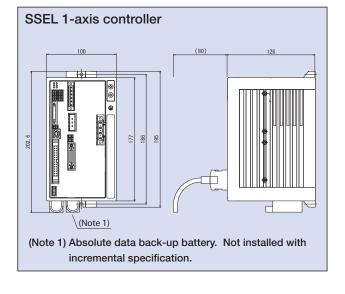
Linear Mot

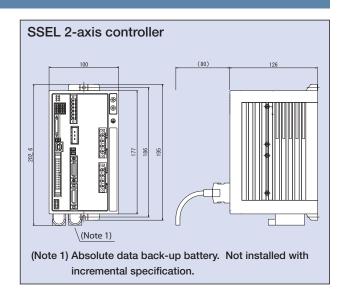
PMEC /AMEC PSEP /ASEP ROBO NET ERC2 PCON ACON SCON PSEL ASEL XSEL

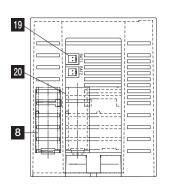
Table of specifications

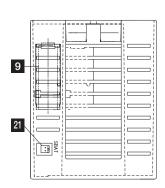
	Item	Specific	ations	
	Connected actuator	RCS2 series actuator / single	axis robot / linear motor	
ons	Input Voltage	Single-phase AC90V to AC126.5V	Single-phase AC180V to AC253V	
aţi	Power Supply Capacity	Max. 1660VA (for 400W, 2-axis operation)		
뜵	Dielectric strength voltage	DC500V 10MΩ or higher		
рес	Withstand voltage	AC500V 1 min.		
င္သ	Rush current	Control Power 15A / Motor Power 37.5A	Control Power 30A / Motor Power 75A	
Basic Specifications	Vibration resistance	XYZ directions 10 to 57Hz, One side amplitude: 58 to 150 Hz 4.9 m/s² (continuou		
	Number of control axes	1 axis /	2 axis	
Control	Maximum total output of connected axis	400W	800W	
cat	Position detection method	Incremental encoder	/ Absolute encoder	
Control	Speed setting	1mm/sec and up, the maximum de	pends on actuator specifications	
o edg	Acceleration setting	0.01G and up, the maximun	n depends on the actuator	
	Operating method	Program operation / Positio	ner operation (switchable)	
	Programming language	Super SEL language		
	Number of programs	128 programs		
돑	Number of program steps	9999 steps		
Program	Number of multi-tasking programs	8 programs		
Pro	Positioning Points	20000 p	points	
	Data memory device	FLASHROM (A system-memory backu	p battery can be added as an option)	
	Data input method	Teaching pendant		
	Number of I/O	24 input points / 8 output poi	nts (NPN or PNP selectable)	
<u>.</u> 0	I/O power	Externally supplie	d 24VDC ± 10%	
cat	PIO cable	CB-DS-PIO □□□ (supp	lied with the controller)	
.in	Serial communications function	RS232C (D-Sub Half-pitch c	onnector) / USB connector	
띭	Field Network	DeviceNet, CC-	Link, ProfiBus	
Communication	Motor Cable	CB-XEU-MA □□	,	
	Encoder cable	CB-XEU3-PA □[□□ (Max. 20m)	
su	Protection function	Motor overcurrent, Motor driver temperature chec Soft limit over, system e	· ·	
텵명	Ambient operating humidity and temperature	0 to 40°C 10 to 95%	6 (non-condensing)	
General specifications	Ambient atmosphere	Free from corrosive gases. In particular	ar, there shall be no significant dust.	
Gerif	Protection class	IP2	20	
ds	Weight	1.4	kg	
	External dimensions	100mm (W) x 202.6m	nm (H) x 126mm (D)	

External Dimensions









1 Status indicator LEDs

These LEDs are used to indicate the operating condition of the controller.

The LED status indicators are as follows:

PWR Power is input to controller. RDY

The controller is ready to perform program

operation.

ALM The controller is abnormal.

EMG An emergency stop is actuated and the drive

source is cut off.

SV1 The axis 1 actuator servo is on. SV2 The axis 2 actuator servo is on.

2 System I/O connector

Connector for emergency stop / enable input / brake power input, etc.

3 Teaching pendant connector

A half-pitch I/O 26-pin connector that connects a teaching pendant when the running mode is MANU. A special conversion cable is needed to connect a conventional Dsub, 25-pin connector.

4 Mode switch

This switch is used to specify the running mode of the controller. The left position indicates the MANU (manual operation) mode, while the right position indicates the AUTO (automatic operation) mode. Teaching can only be performed as manual operation, and automatic operation using external I/Os is not possible in the MANU mode.

5 USB connector

A connector for PC connection via USB. If the USB connector is connected, the TP connector is disabled and all communication inputs to the TP connector are cut off.

6 I/O Connector

A connector for interface I/Os.

34-pin flat cable connector for DIO (24IN/8OUT) interface.

I/O power is also supplied to the controller via this connector (Pin No. 1 and No. 34).

7 Panel unit connector

A connector for the panel unit (optional) that displays the controller status and error numbers

8 Absolute data backup battery

When an absolute-type axis is operated, this battery retains position data even after the power is cut off.

9 System memory backup battery (Option)

This battery is needed if you wish to retain various data recorded in the SRAM of the controller even after the power is cut off.

This battery is optional. Specify it if necessary.

10 Power supply connector

AC power connector. Divided into the control power input and motor power input.

11 Grounding screw

Protective grounding screw. Always ground this screw.

12 External regenerative resistor connector

A connector for the regenerative resistor that must be connected when the built-in regenerative resistor alone does not offer sufficient capacity in high-acceleration/ high-load operation, etc.

Whether or not an external regenerative resistor is necessary depends on the conditions of your specific application such as the axis configuration.

13 Motor connector for axis 1

Connects the motor cable of the axis 1 actuator.

14 Motor connector for axis 2

Connects the motor cable of the axis 2 actuator.

15 Brake switch for axis 1

This switch is used to release the axis brake. Setting it to the left position (RLS side) forcibly releases the brake, while setting it to the right position (NOM side) causes the controller to automatically control the brake

16 Brake switch for axis 2

This switch is used to release the axis brake. Setting it to the left position (RLS side) forcibly releases the brake, while setting it to the right position (NOM side) causes the controller to automatically control the brake.

17 Encoder connector for axis 1

Connect the encoder cable of the axis 1 actuator.

18 Encoder connector for axis 2

Connect the encoder cable of the axis 2 actuator.

19 Absolute-data backup battery connector for axis 1

A connector for the battery that backs up absolute data for axis 1 when the actuator uses an absolute encoder.

20 Absolute-data backup battery connector for axis 2

A connector for the battery that backs up absolute data for axis 2 when the actuator uses an absolute encoder.

21 System-memory backup battery connector

A connector for the system-memory backup battery.

Mini
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Rod
Type
Mini

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

Option

Teaching Pendant

A teaching device for entering programs Features and positions, test runs, and monitoring.

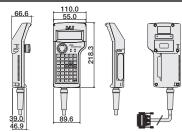
■ Model/Price

Model HK-1

Model

Model	Description
SEL-T-J	Standard type with adapter cable
SEL-TD-J	Deadman's switch type and adapter cable

Configuration Adapter cable: CB-SEL-SJ002 —□ → □^{0.2m}□ → ■ SEL-T option Wall-mounting Strap hook Model STR-1



Specifications

Specifications						
SEL-T-J	SEL-TD-J					
No	Yes					
Non-compliant	Compliant					
Compliant						
20 char.	× 4 lines					
0~40°C 10~90% RH (non-condensing)						
Protective structure IP5						
Approx. 0.4kg (not incl. cable						
	No Non-compliant Compliant 20 char. 0~40°C 10~90% Rh					

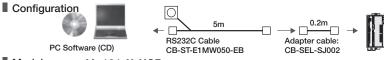
PC Software (Windows Only)

Features A startup support software for entering programs/positions, performing test runs, and monitoring. More functions have been added for

debugging, and improvements have been made to shorten the start-up

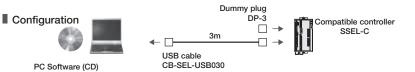
IA-101-X-MW-J (with RS232C cable + adapter cable)

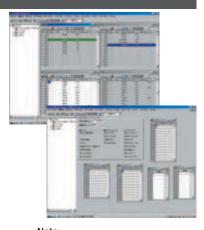
IA-101-X-MW (with RS232C cable)



IA-101-X-USB Model

(with USB cable)





Only versions 6.0.0.0 and later can be used with the SSEL controller.

Regenerative Resistor Unit

A unit that converts the regenerative current, generated during the ■ Features

acceleration/deceleration of the of the motor, into heat,

In the table on the right, check the total power output of the actuator to see if a regenerative resistor is needed.

REU-2 (for SCON/SSEL) ■ Model

■ Specifications

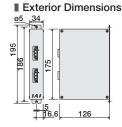
Weight of main unit	0.9kg
Internal regenerative resistance	220Ω 80W
Main unit-Controller Connection Cable (included)	CB-SC-REU010 (for SSEL)

■ Required Number of Units

	Horizontal	Vertical
0 units	~200W	~200W
1 unit	~800W	~600W
2 units		~800W

Depending on the operating conditions more regenerative resistors may be needed

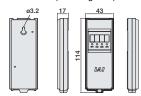
If 2 regenerative units are needed acquire one REU-2 and one REU-1



Panel Unit

■ Features Display device that shows the error code from the controller or the currently running program number.

■ Model PU-1 (Cable length: 3m)



Absolute Data Backup Battery

(See P596).

■ Features Battery for saving absolute data, when operating an actuator with an absolute encoder. Same as the battery used for system memory

■ Model AB-5



System Memory Backup Battery

■ Features This battery is required, for example, when you are using global flags in the program and you want to retain your data even after the power

■ Model AB-5-CS (with case) AB-5 (Standalone battery)



Dummy Plug

When connecting the SSEL controller to a computer with a USB cable, this plug is inserted in the teaching port to shut off the

enable circuit. (Supplied with the PC software IA-101-X-USB)

■ Model DP-3



Features A cable for connecting the controller to the

USB port to a computer.

A controller with no USB port (e.g. XSEL) can be connected to the USB port of a computer by connecting an RS232C cable to the USB cable via a USB adapter.

(See PC software IA-101-X-USBMW)

■ Model CB-SEL-USB030 (Cable length: 3m)



Adapter Cable

■ Features An adapter cable to connect the D-sub

25-pin connector from the teaching pendant or a PC to the teaching connector (half-pitch)

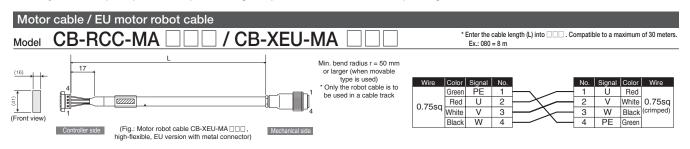
of the SSEL controller.

■ Model CB-SEL-SJ002 (Cable length: 0.2m)



Spare parts

When you need spare parts after purchasing the product, such as when replacing a cable, refer to the list of models below.



Encoder cable / EU encoder robot cable

Model CB-RCS2-PA / CB-XEU3-PA / CB-XEU3-PA / Enter the cable length (L) into | Compatible to a maximum of 30 meters.

Min. bend radius r = 50 mm or larger (when movable type is used)

* Only the robot cable is to be used in a cable track

L

(41)

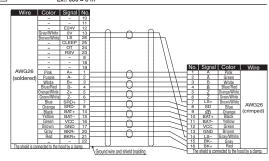
L

(41)

Controller side

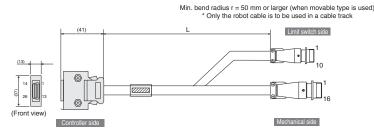
Mechanical side

(Fig.: Encoder robot cable CB-XEU3-PA □□□, high-flexible, EU version with metal connector)



LS encoder cable / EU LS encoder robot cable for RCS2-RT6/RT6R/RT7R/RTC8/RTC10/RTC12/RA13R

Model CB-RCS2-PLA / CB-XEU2-PLA / CB-XEU2-PLA / Ex: 080 = 8 m



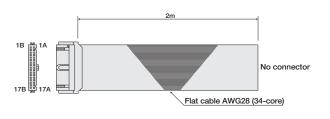
 $(\textit{Fig.: Limit switch encoder robot cable CB-XEU2-PLA} \; \square \; \square \; \square \; \text{, high-flexible, EU version with metal connector)}$

Wire	Color	Signal	No.		١	\cap					
	-		10			- 11					
	-	_	11		l _	- 11		No.	Signal	Color	Wire
	White/Orange	E24 V	12		<u> </u>	-		1	E24 V	White/Blue	
	White/Green	0 V	13	-	1 0			2	0 V	White/Yellow	
	Brown/Blue	LS	26	\vdash	1 (1	-		- 4	LS	White/Red	AWG26
	Brown/Yellow	CLEEP	25	-	<u> </u>	-		- 5	CLEEP	White/Black	(crimped
	Brown/Red	OT	24	-		-		- 6	OT	White/Purple	
1 1	Brown/Black	RSV	23		 U	-H		7	RSV	White/Gray	
	-		9			- 11		(3/8/9/10)			
	-		18	1 1		- 11					
1 1			19	1 1	_	- 11		No.	Signal	Color	Wire
	White/Blue	A+	1	\vdash	-	-H		1	A	White/Blue	
AWG26	White/Yellow	A-	2	\vdash	$ \cup$	-		- 2	A B	White/Yellow	
(soldered)	White/Red	B+		\rightarrow	-	-		- 3		White/Red	
	White/Black	B-	4	-	-	-		- 4	В	White/Black	AWG26
	White/Purple	Z+	5	+	-	-		- 5	Z	White/Purple	(crimped
	White/Gray	Z-	6	+	 U	-H		- 6	Z	White/Gray	(cillipac
	Orange	SRD+	7	+	-	-	$\overline{}$	7	_	-	
	Green	SRD-	8	\rightarrow	- U	-	$\overline{}$	8	_	-	
1 1	Purple	BAT+	14	\rightarrow	-	\rightarrow	—//	9	SD	Orange	
1 1	Gray	BAT-	15	\rightarrow	$ \cup$	-H	—//,	10	SD	Green	
	Red	VCC	16	-	-	-	—//	11	BAT+	Purple	
	Black	GND	17	-	-	-	—//,	12	BAT-	Gray	
	Blue	BKR-	20	\vdash	-	-	—//,	13	VCC	Red	
	Yellow	BKR+	21	\vdash	$ \cup$	-	—//,	14	GND	Black	
	-	_	22	1 1	1	- 11	//	15	BK-	Blue	
The shield	is connected t	o the hood by a c	lamn	-	und wire and	$ \cup$	— `	16	BK+	Yellow	

I/O Flat Cable

Model CB-DS-PIO

* Enter the cable length (L) into . Compatible to a maximum of 10 meters
Ex.: 080 = 8 m



Pin No.	Color	Wire	Pin No.	Color	Wire
1A	Brown 1		9B	Gray 2	
1B	Red 1		10A	White 2	
2A	Orange 1		10B	Black 2	
2B	Yellow 1		11A	Brown-3	
3A	Green 1		11B	Red 3	
3B	Blue1		12A	Orange 3	
4A	Purple 1		12B	Yellow 3	
4B	Gray 1	Flat	13A	Green 3	Flat
5A	White 1	cable	13B	Blue 3	cable
5B	Black 1	crimped	14A	Purple 3	crimped
6A	Brown-2		14B	Gray 3	.
6B	Red 2		15A	White 3	
7A	Orange 2		15B	Black 3	
7B	Yellow 2		16A	Brown-4	
8A	Green 2		16B	Red 4	
8B	Blue 2		17A	Orange 4	
9A	Purple 2		17B	Yellow 4	

ilder Type

Mini

Standard

Controllers Integrated

Rod

Mini

Controllers

Table/Arm /Flat Type

Standard

Gripper/ Rotary Type

Linear Motor

Cleanroom

Splash-Proof

Controlloro

PMEC /AMEC

/ASEP

NET

PCON

AGUN

PSEL

ASEL

SSEL

Pulse Motor

Servo Motor

Servo Motor

Linear Moto