

For SEL Related Controllers

Remote I/O Unit



Introducing the Remote I/O Unit, Which Allows You to Easily Expand the Number of I/O Points on the Controller

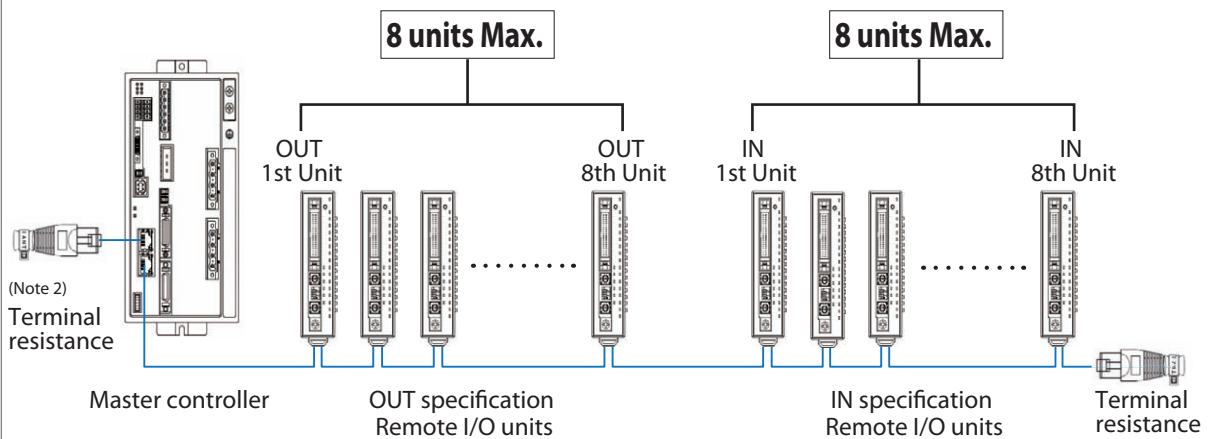


1 Capable of Expanding the Number of I/O Points on the Controller

The remote I/O units have input-only model (IN specification) and output-only model (OUT specification), and each are equipped with 32 I/O points.

You can install a maximum of 8 units (Note 1) each of the IN specification and OUT specification models, for a total of 16 units.

The maximum expansion is 256 points (Note 1) for input and 256 points for output.



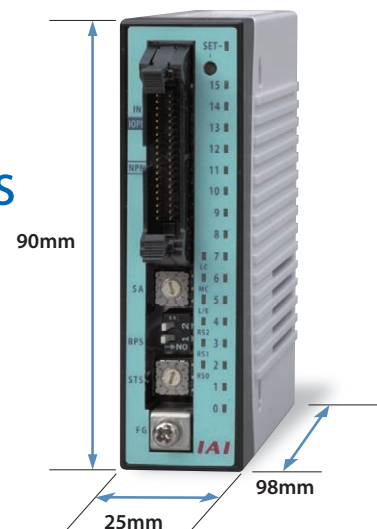
Note 1: In the case of SSEL (MSEL and TTA allow a maximum of 7 units each, with 224 points each of input and output points)

Note 2: There are two units of the terminal resistance enclosed if IA (IA Net connection board) is selected in the I/O type in the controller model code.

2 Small Product Size Easy Installation with DIN Rails

The product size is very compact at 25mm (Width) by 90mm (Height) by 98mm (Depth).

Installation is very simple using DIN rail mounts.



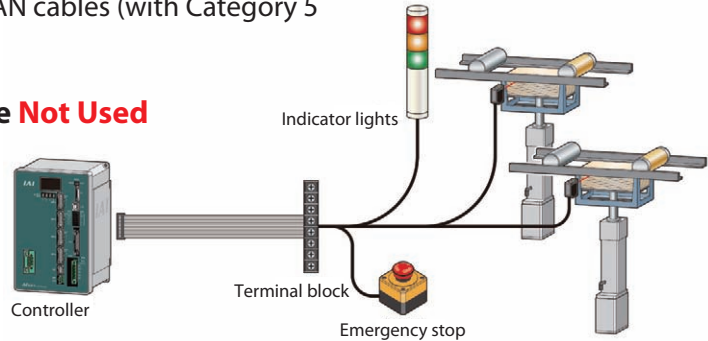
3

Easy Connection and Less Cables

Connection between the controller and remote I/O units and among remote I/O units can be conducted with general LAN cables (with Category 5 or higher).

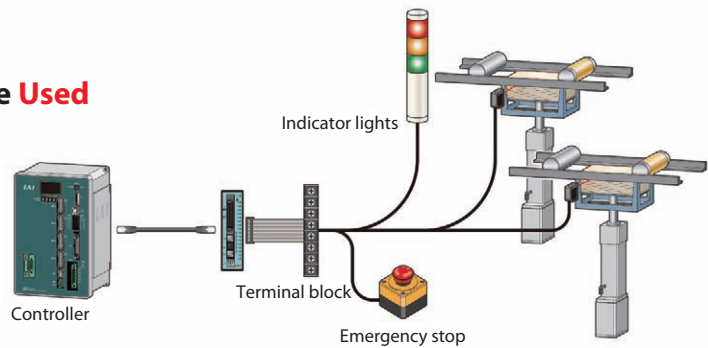
■When Remote I/O Units Are Not Used

As the connection between the controller and the terminal block is to be conducted with I/O cable, it is necessary to pay attention to the wiring layout of the cable.



■When Remote I/O Units Are Used

I/O cable can be short, and the connection between the controller and I/O units can be conducted with just one LAN cable, which makes the wiring layout nice and tidy.

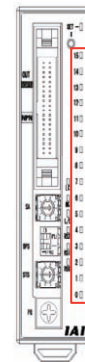


4

The Front Panel LED Lights Make Unit Status Apparent

The status of the unit can be checked on the status LED lamps mounted in the front panel.

- PIO input terminal status
- PIO output terminal status
- Error status, etc.



16 LED lamps make grasp the status.

5

Compatible Controllers

The remote I/O unit is compatible with three controllers: the SSEL, MSEL, and TTA.



SSEL





MSEL



TTA

Remote I/O Unit

Model List

Name	Remote I/O Unit	
Type	Input Unit (IN Specification)	Output Unit (OUT Specification)
External View		
Standard Price	-	-

Model Code

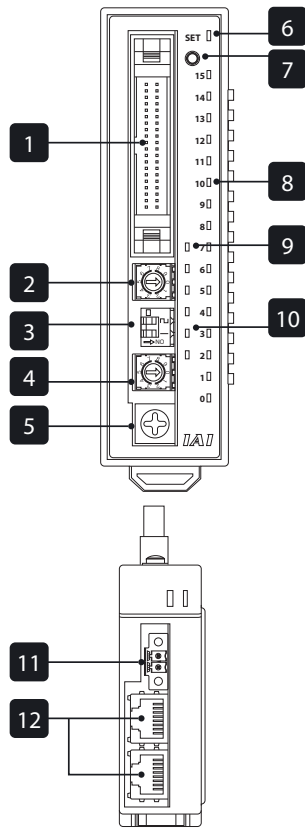
EIOU Series — **1** Type — I/O type — I/O cable length

I/O type		I/O cable length	
N4	Input 32/NPN	0	No cable
N5	Output 32/NPN	2	2m (Standard)
P4	Input 32/PNP	3	3m
P5	Output 32/PNP	5	5m

Specifications

Items	Specifications (IN / OUT)
Rated Voltage	DC24V
Operating Voltage Range	DC21.6 ~ 26.4V
Current Consumption	IN: 0.16A max. / OUT: 1.6A max.
Number of I/O Points	IN: 32 points / OUT: 32 points
Communication Method	Half-duplex multi-drop
Baud Rate	IN: 12mbps / OUT: 3mbps
Number of Connectable Units	IN: 8 units max. / OUT: 8 units max. (SSEL) IN: 7 units max. / OUT: 7 units max. (MSEL & TTA)
Communication Cycle Time	IN: 0.627msec (baud rate: 12mbps) OUT: 2.508msec (baud rate: 3mbps)
Total Cable Length (IA Net Connection)	IN: 100m (baud rate: 12mbps) OUT: 300m (baud rate: 3mbps)
Size	25mm (W) × 90mm (H) × 98mm (D)
Weight	87g
Electric Shock Protection	Class1 basic insulation
Insulation Resistance	DC500V 10mΩ
Installation Method	DIN rail mount
Ambient Operating Temperature	0 ~ 40°C
Ambient Operating Humidity	20 ~ 85% RH (non-condensing)

Part Names



1 I/O connector

This connector allows 32 points of input or output control signals to be connected.

2 Station address setting switch (SA rotary switch)

This sets the station address. For both the IN and OUT specifications, you can set the position of the rotary switch starting from 0 and up.

3 Main unit setting DIP switch

Switch 1 sets the baud rate of the network.

4 Status LED 1 display changeover rotary switch (STS rotary switch)

This changes the information displayed on Status LED 1.

5 FG grounding terminal

This is a terminal to connect the grounding line to prevent electric shock and noise.

6 Main unit setting confirmation LED

This will turn on in green while main unit setting confirmation switch is pressed.

7 Main unit setting confirmation switch

After changing the position of the stationary address switch or the baud rate setting switch, pressing this switch will make the changes effective. There is no need to reboot the unit.

8 Status LED 1

This displays the status of the product in response to the position set with STS rotary switch. Refer to the instruction manual for details.

9 Status LED 2

This displays the normal / error status in the communication. Refer to the instruction manual for details.

10 Status LED 3

Positions of STS rotary switch are displayed with RS0, RS1 and RS2 LED lamps. Refer to the instruction manual for details.

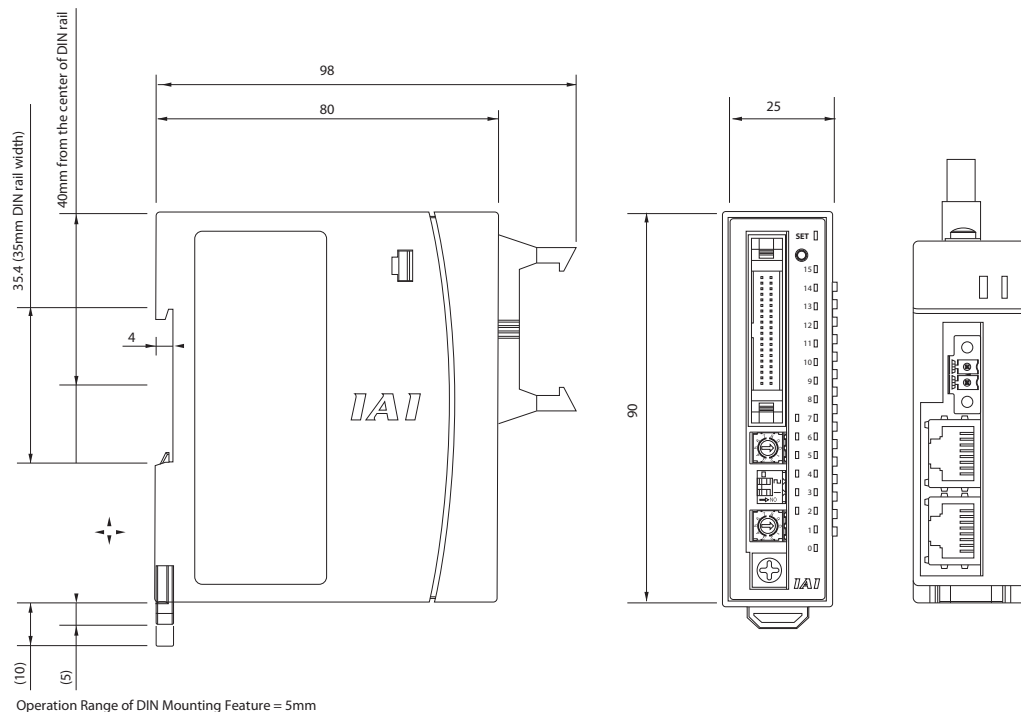
11 24V Power supply connector

This is a connector to supply DC24V power to the controller.

12 IA Net connector

This connects an IA Net communication cable or terminal resistor. Please connect a terminal resistor to the master controller or remote I/O unit that will be the end of the network.

Dimensions

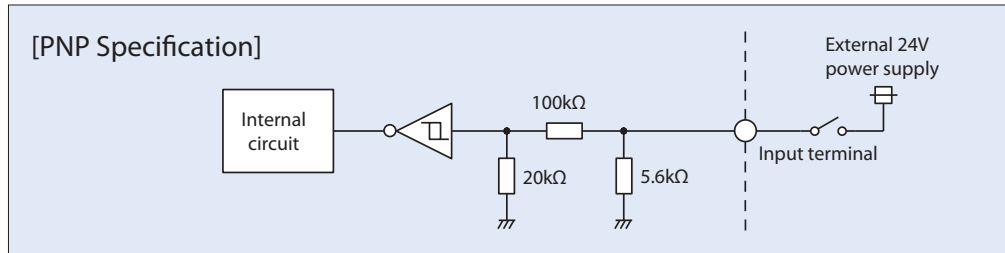
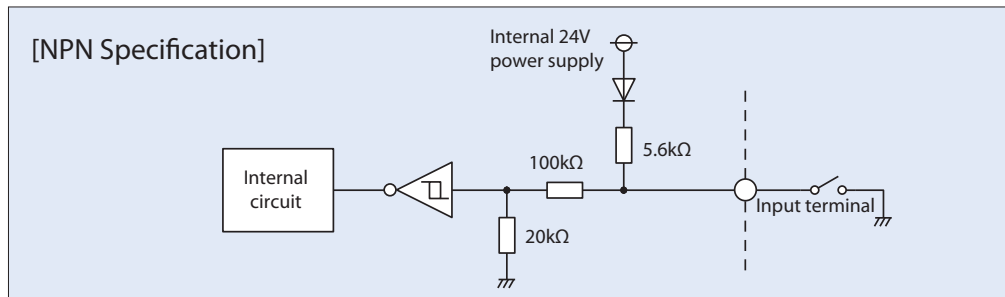


Remote I/O Unit

I/O Specification

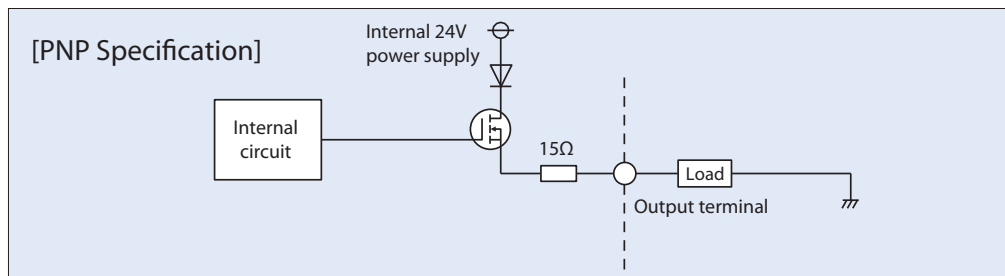
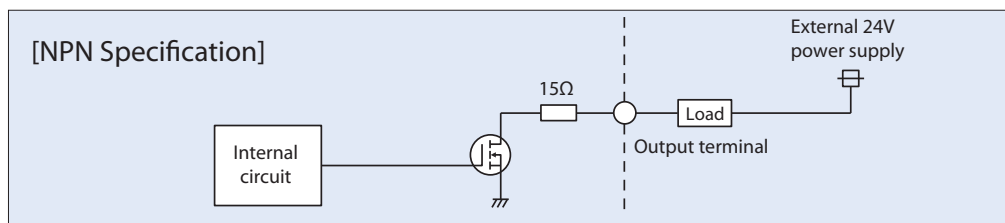
Input Unit (IN Specification)

Specification Items	Details
Input Points	32 points
Input Voltage	DC24V \pm 10%
Input Current	5mA/circuit
Current Leakage	1mA/point max.
Insulation System	Not insulated



Output Unit (OUT Specification)

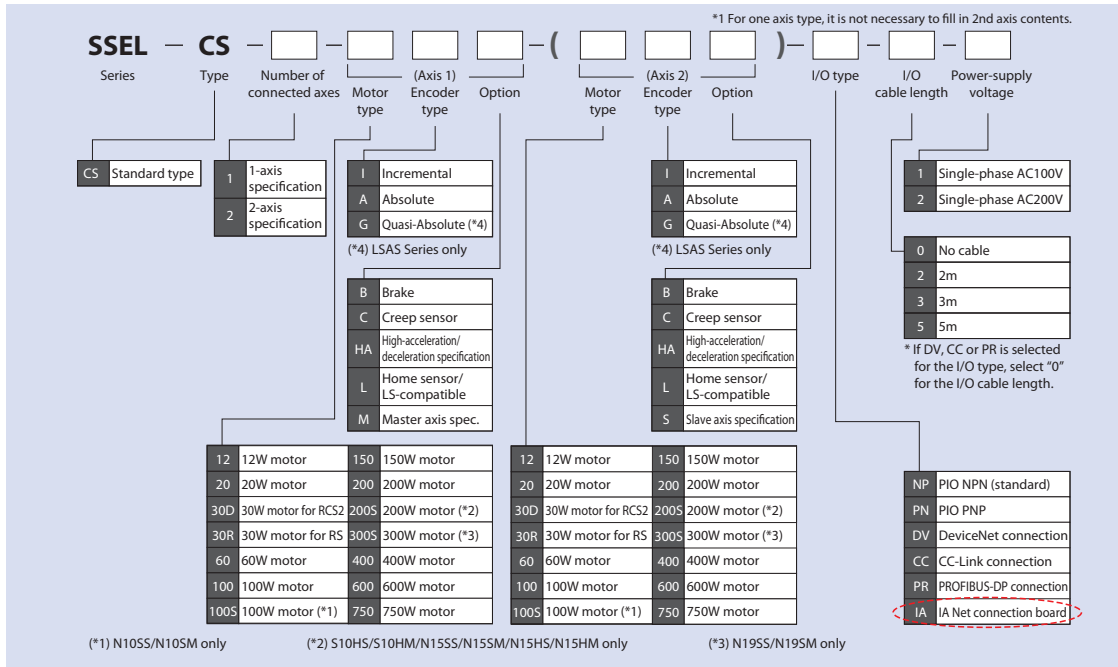
Specification Items	Details
Output Points	32 points
Rated Load Voltage	DC24V \pm 10%
Max. Current	50mA/point
Residual Voltage	2V or less
Insulation System	Not insulated



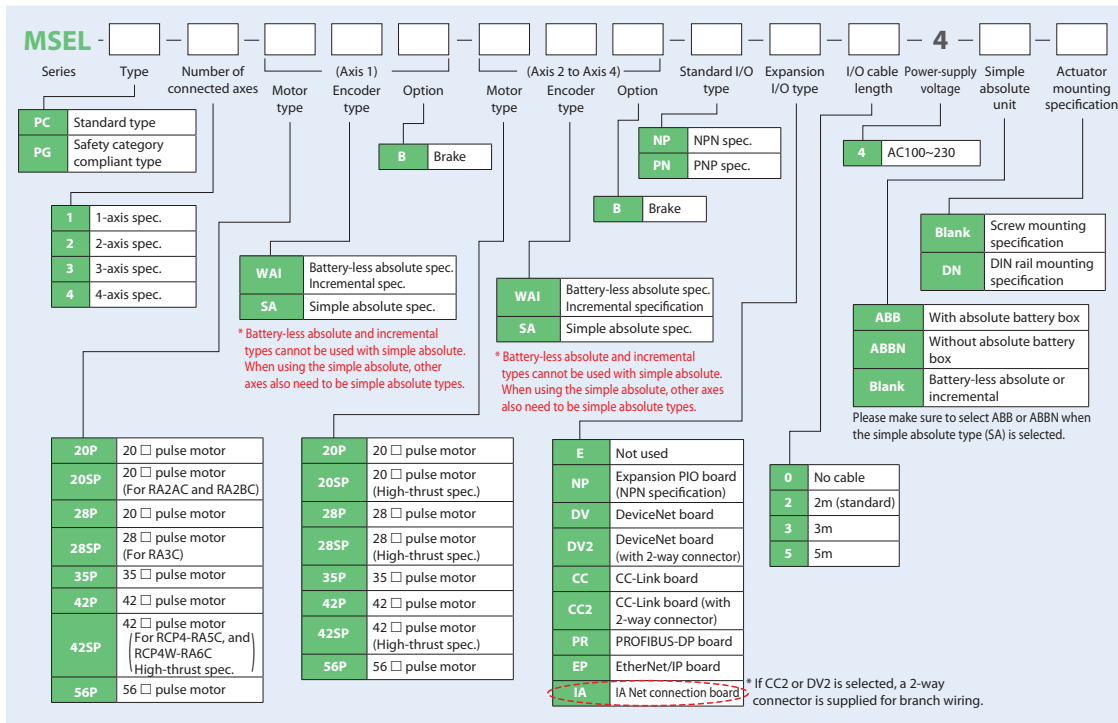
Model Code Description of Connectable Controllers

- Currently, the controllers available to connect remote I/O units are "SSEL", "MSEL" and "TTA" shown below.
- If connection to remote I/O units is required, put "IA" to the place to indicate I/O in the controller model code.

SSEL

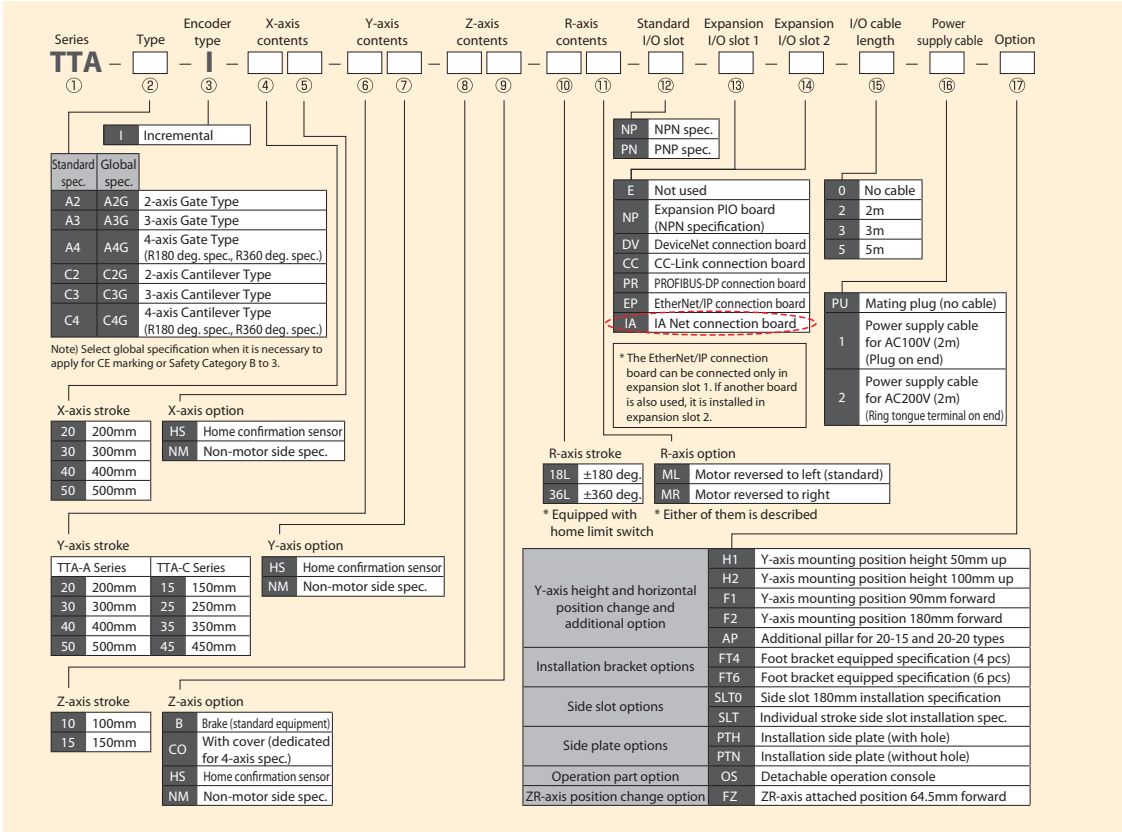


MSEL



Model Code Description of Connectable Controllers (Continued)

TTA



IAI America, Inc.
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 Atlanta Office: 1220 Kennestone Circle, Suite 108, Marietta, GA 30066 (888) 354-9470
www.intelligentactuator.com
 The information contained in this product brochure may change without prior notice due to product improvements.

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