

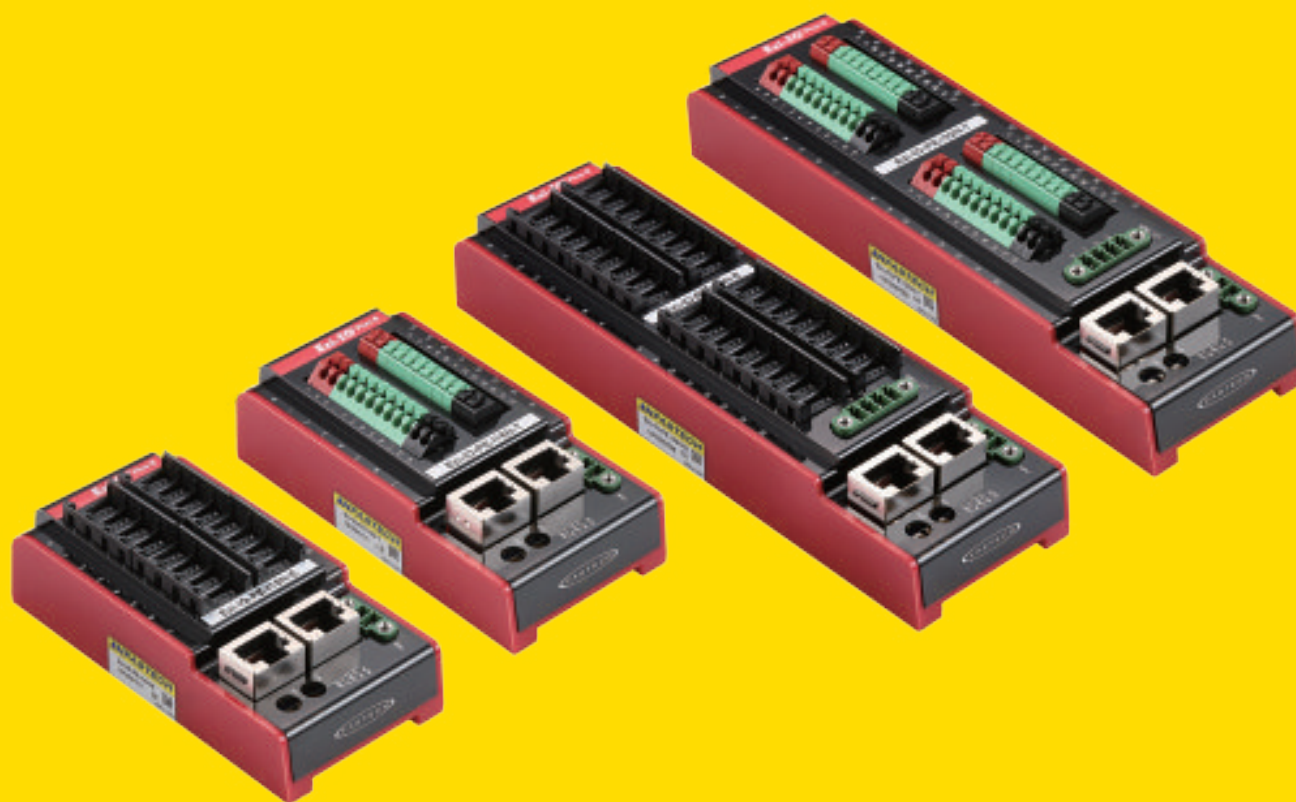
# Ezi-IO<sup>®</sup>

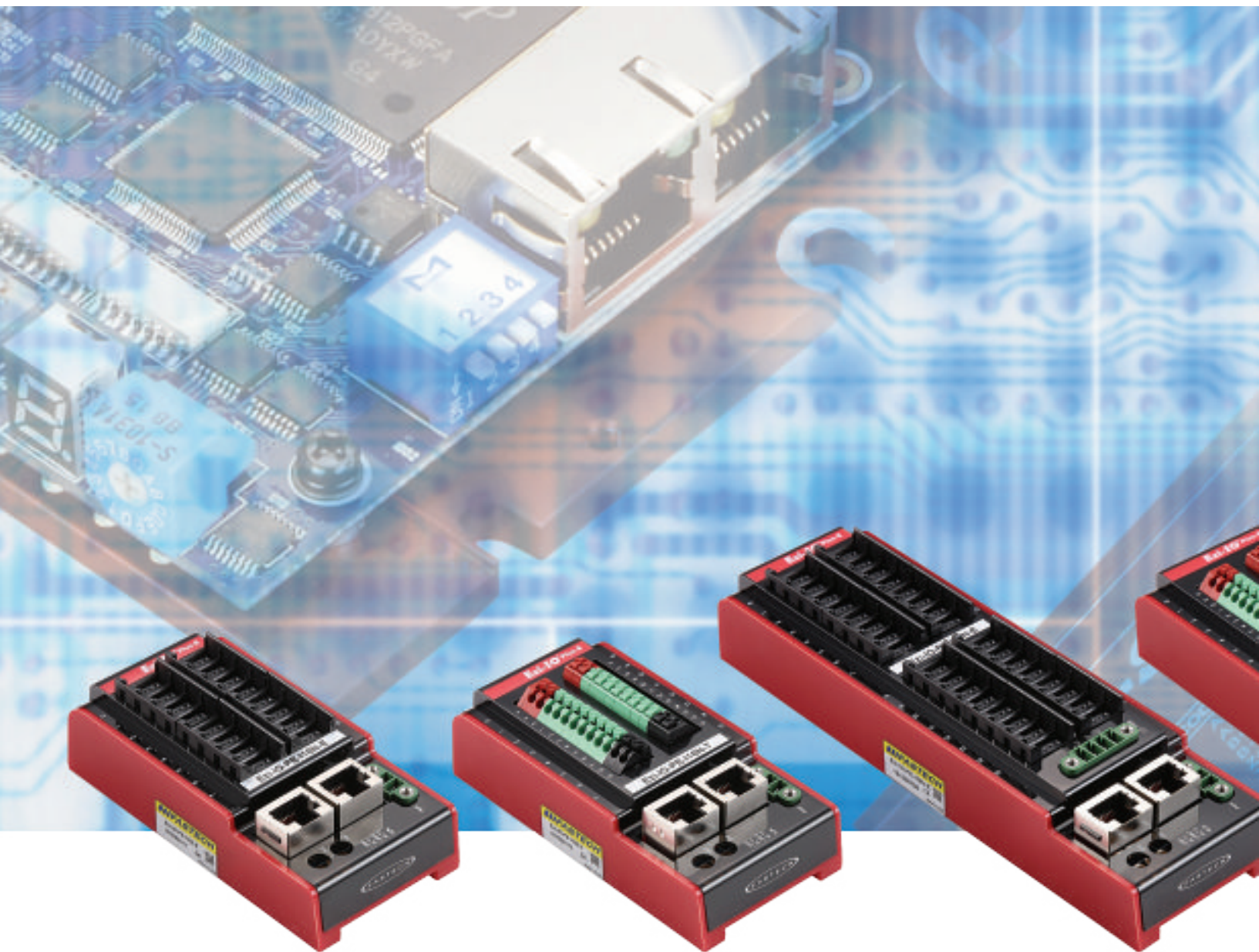
## Input/Output Module

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- Control by Ethernet communication
- Use the same communication protocol as Plus-E product series
- Digital I/O Photocoupler Isolation
- Various 16CH & 32CH I/O Module (NPN / PNP type)

**Plus-E**

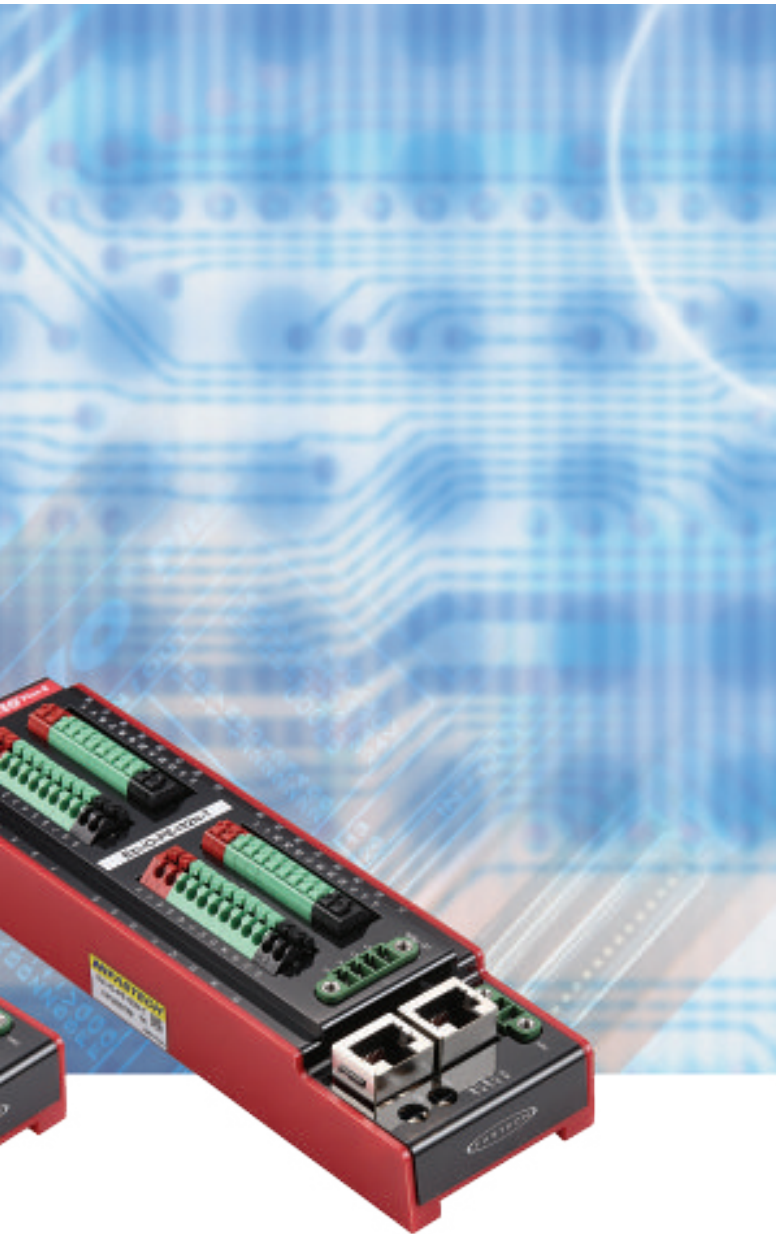




*Fast, Accurate, Smooth Motion*

# **Ezi-IO<sup>®</sup> Plus-E**

**Input/Output Module**

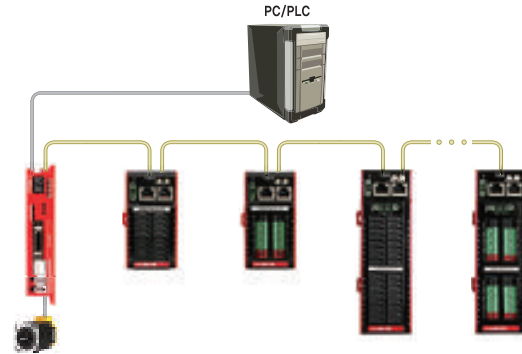


## 1 Ethernet Based Digital I/O Module

Ezi-IO Plus-E Series are products which provide Digital input and output module with Ethernet network so that customers can easily control many peripheral devices on the equipment as needed.

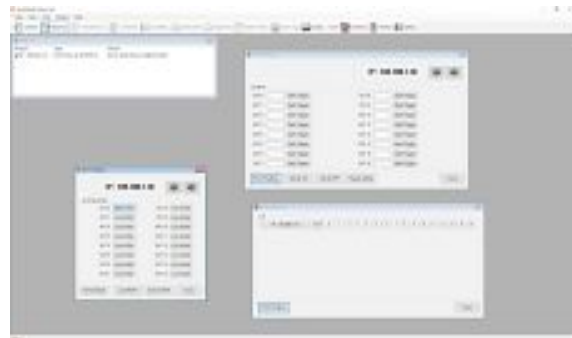
## 2 Supported FASTECH Protocol

It is easy to use for users of the existing Plus-E series due to using the same Ethernet communication protocol as the existing Plus-E product series.



## 3 Provide User GUI and Library

For customer convenience in a PC-controlled environment, the Graphic User Interface and Windows 7/8/10 corresponding Library (DLL) are provided.



## 4 Specialized I/O Module

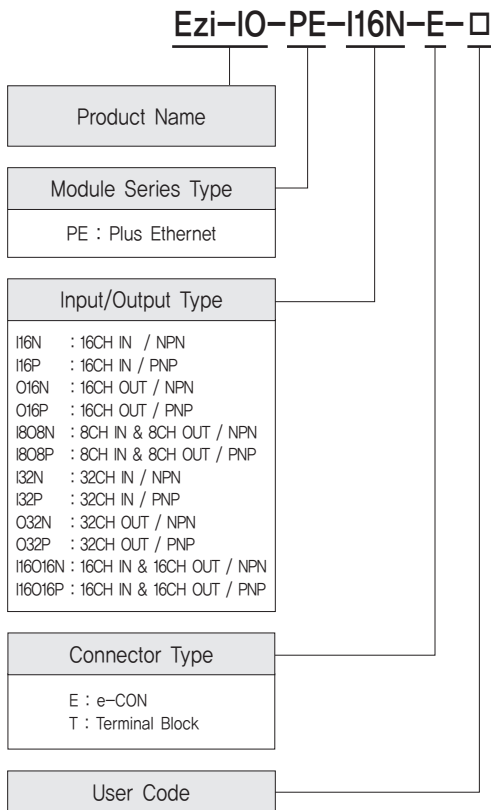
Ezi-IO Plus-E supports independent 16CH/32CH input and 16CH/32CH output module products, and can be applied to various installation environments by selecting NPN or PNP type. In addition, Input module has Latch and Latch Count function, so it is possible to detect and count without losing important signal change, and Output module supports Trigger output function to set and output the signal of fixed period and fixed quantity.

## 5 Digital I/O Photocoupler Isolation

By using photocoupler isolation elements, input and output circuit of both side can be protected from electrical damage.



## ● Ezi-IO Plus-E Part Numbering



## ● Ezi-IO Plus-E Part Number

Part Number
Ezi-IO-PE-I16N-E
Ezi-IO-PE-I16P-E
Ezi-IO-PE-O16N-E
Ezi-IO-PE-O16P-E
Ezi-IO-PE-I808N-E
Ezi-IO-PE-I808P-E
Ezi-IO-PE-I16N-T
Ezi-IO-PE-I16P-T
Ezi-IO-PE-O16N-T
Ezi-IO-PE-O16P-T
Ezi-IO-PE-I808N-T
Ezi-IO-PE-I808P-T
Ezi-IO-PE-I32N-E
Ezi-IO-PE-I32P-E
Ezi-IO-PE-O32N-E
Ezi-IO-PE-O32P-E
Ezi-IO-PE-I16O16N-E
Ezi-IO-PE-I16O16P-E
Ezi-IO-PE-I32N-T
Ezi-IO-PE-I32P-T
Ezi-IO-PE-O32N-T
Ezi-IO-PE-O32P-T
Ezi-IO-PE-I16O16N-T
Ezi-IO-PE-I16O16P-T

## ● Specifications of Module

Module Series		Ezi-IO-PE series					
Module Name		Ezi-IO-PE- I16N-□	Ezi-IO-PE- I16P-□	Ezi-IO-PE- O16N-□	Ezi-IO-PE- O16P-□	Ezi-IO-PE- I808N-□	Ezi-IO-PE- I808P-□
Input Voltage		24VDC ±10%					
Control Method		Control with 32bit MCU					
Network Connection		Standard Ethernet (Max 254 Connection)					
Current Consumption		Max 500mA (I/O Except I/O current)					
Operating Condition	Ambient Temperature	<ul style="list-style-type: none"> <li>· In Use: 0~50°C</li> <li>· In Storage: -20~70°C</li> </ul>					
	Humidity	<ul style="list-style-type: none"> <li>· In Use: 35~85% RH (Non-Condensing)</li> <li>· In Storage: 10~90% RH (Non-Condensing)</li> </ul>					
	Vib. Resist.	0.5g					
Function	Input Signal	<ul style="list-style-type: none"> <li>· 16CH Input (Photocoupler Input, NPN/PNP)</li> <li>· Latch for 16CH (Rising/Falling)</li> <li>· Latch Pulse Width: Min. 25 μsec</li> <li>· Latch counter for 16CH</li> <li>· 24VDC: Max. 10mA/CH</li> </ul>	-	-	-	<ul style="list-style-type: none"> <li>· 8CH Input (Photocoupler Input, NPN/PNP)</li> <li>· Latch for 8CH (Rising/Falling)</li> <li>· Latch Pulse Width: Min. 25 μsec</li> <li>· Latch counter for 8CH</li> <li>· 24VDC: Max. 10mA/CH</li> </ul>	
	Output Signal	-	<ul style="list-style-type: none"> <li>· 16CH Output (Photocoupler Isolation, FET Output)</li> <li>· Trigger output for 16CH (Setting for each channel) <ul style="list-style-type: none"> <li>- 50% Duty, Pulse Width = Min. 1 msec</li> </ul> </li> <li>· 24VDC: Max. 200mA/CH <ul style="list-style-type: none"> <li>- under full operating condition</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>· 8CH Output (Photocoupler Isolation, FET Output)</li> <li>· Trigger output for 8CH (Setting for each channel) <ul style="list-style-type: none"> <li>- 50% Duty, Pulse Width = Min. 1 msec</li> </ul> </li> <li>· 24VDC: Max. 200mA/CH <ul style="list-style-type: none"> <li>- under full operating condition</li> </ul> </li> </ul>			
	LED Display	<ul style="list-style-type: none"> <li>· Power status</li> <li>· Input status</li> <li>· Ethernet status (Link, Activity)</li> <li>· Run status</li> </ul>	<ul style="list-style-type: none"> <li>· Power status</li> <li>· Output status</li> <li>· Ethernet status (Link, Activity)</li> <li>· Run status</li> </ul>	<ul style="list-style-type: none"> <li>· Power status</li> <li>· Input/Output status</li> <li>· Ethernet status (Link, Activity)</li> <li>· Run status</li> </ul>			
Communication Protocol		Ethernet UDP/TCP, network speed: 10/100Base-T/Tx Full Duplex					
User Program		Windows based User interface program					
Library		Library(DLL) for Windows 7/8/10					

\* □ : Connector Type

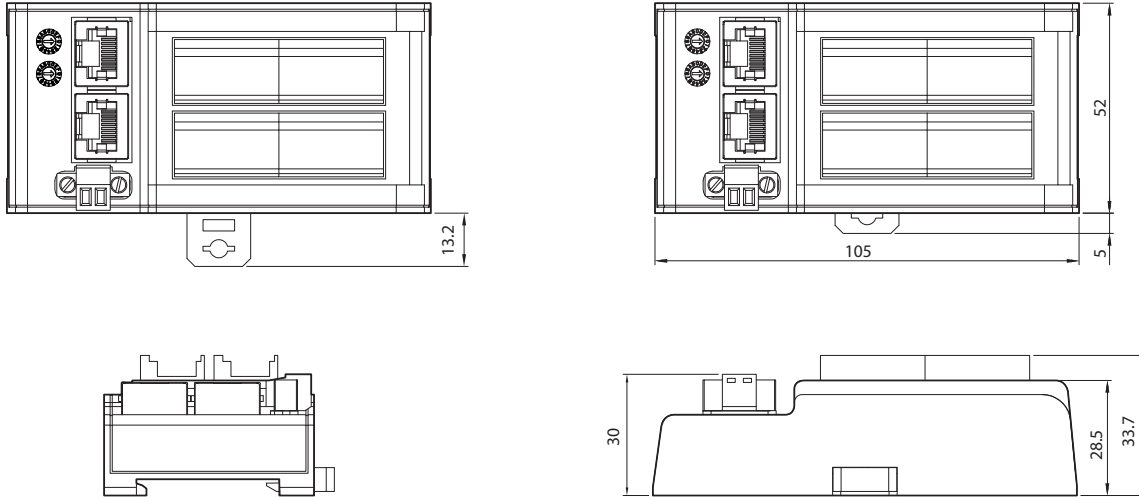
## ● Specifications of Module

Module Series		Ezi-IO-PE series						
Module Name		Ezi-IO-PE- I32N-□	Ezi-IO-PE- I32P-□	Ezi-IO-PE- O32N-□	Ezi-IO-PE- O32P-□	Ezi-IO-PE- I16O16N-□	Ezi-IO-PE- I16O16P-□	
Input Voltage		24VDC ±10%						
Control Method		Control with 32bit MCU						
Network Connection		Standard Ethernet (Max 254 Connection)						
Current Consumption		Max 500mA (I/O Except I/O current)						
Operating Condition	Ambient Temperature	<ul style="list-style-type: none"> <li>· In Use: 0~50°C</li> <li>· In Storage: -20~70°C</li> </ul>						
	Humidity	<ul style="list-style-type: none"> <li>· In Use: 35~85% RH (Non-Condensing)</li> <li>· In Storage: 10~90% RH (Non-Condensing)</li> </ul>						
	Vib. Resist.	0.5g						
Function	Input Signal	<ul style="list-style-type: none"> <li>· 32CH Input (Photocoupler Input, NPN/PNP)</li> <li>· Latch for 32CH (Rising/Falling)</li> <li>· Latch Pulse Width: Min. 25 μsec(0~15CH) Min. 100 μsec(16~31CH)</li> <li>· Latch counter for 32CH</li> <li>· 24VDC: Max. 10mA/CH</li> </ul>			-		<ul style="list-style-type: none"> <li>· 16CH Input (Photocoupler Input, NPN/PNP)</li> <li>· Latch for 16CH (Rising/Falling)</li> <li>· Latch Pulse Width: Min. 25 μsec</li> <li>· Latch counter for 16CH</li> <li>· 24VDC: Max. 10mA/CH</li> </ul>	
	Output Signal	-			<ul style="list-style-type: none"> <li>· 32CH Output (Photocoupler Isolation, FET Output)</li> <li>· Trigger output for 32CH (Setting for each channel) - 50% Duty, Pulse Width = Min. 1 msec</li> <li>· 24VDC: Max. 200mA/CH - under full operating condition</li> </ul>		<ul style="list-style-type: none"> <li>· 16CH Output (Photocoupler Isolation, FET Output)</li> <li>· Trigger output for 16CH (Setting for each channel) - 50% Duty, Pulse Width = Min. 1 msec</li> <li>· 24VDC: Max. 200mA/CH - under full operating condition</li> </ul>	
	LED Display	<ul style="list-style-type: none"> <li>· Power status</li> <li>· Input status</li> <li>· Ethernet status (Link, Activity)</li> <li>· Run status</li> </ul>			<ul style="list-style-type: none"> <li>· Power status</li> <li>· Output status</li> <li>· Ethernet status (Link, Activity)</li> <li>· Run status</li> </ul>		<ul style="list-style-type: none"> <li>· Power status</li> <li>· Input/Output status</li> <li>· Ethernet status (Link, Activity)</li> <li>· Run status</li> </ul>	
Communication Protocol		Ethernet UDP/TCP, network speed: 10/100Base-T/Tx Full Duplex						
User Program		Windows based User interface program						
Library		Library(DLL) for Windows 7/8/10						

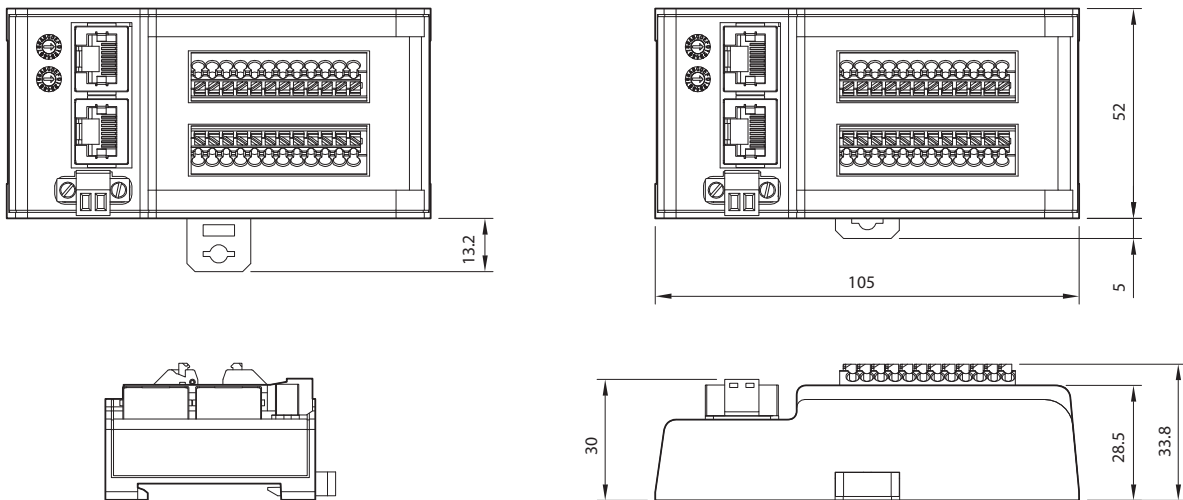
\* □ : Connector Type

## ● Dimensions of Module [mm]

### ◆ Ezi-IO-PE-■16□-E / Ezi-IO-PE-I808□-E Series



### ◆ Ezi-IO-PE-■16□-T / Ezi-IO-PE-I808□-T Series



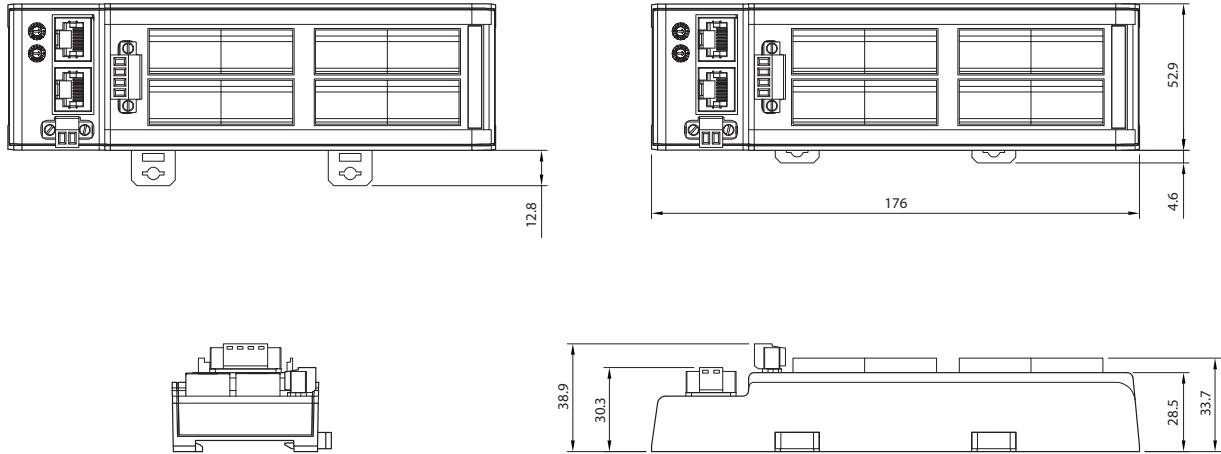
\* ■ : Input / Output Type

□ : NPN / PNP Type

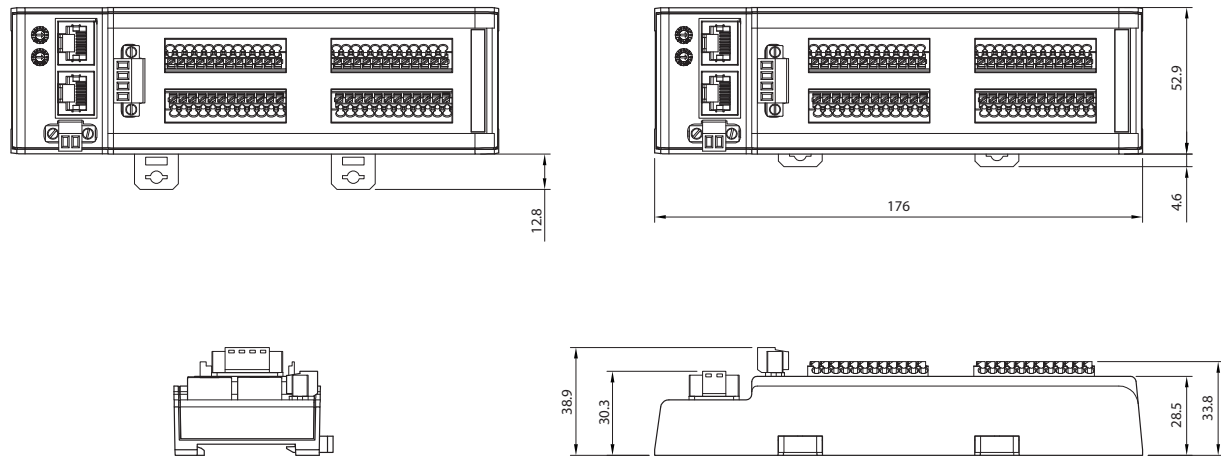
\* Can be installed on 35mm DIN Rail.

## ● Dimensions of Module [mm]

### ◆ Ezi-IO-PE-■32□-E / Ezi-IO-PE-I16O16□-E Series



### ◆ Ezi-IO-PE-■32□-T / Ezi-IO-PE-I16O16□-T Series



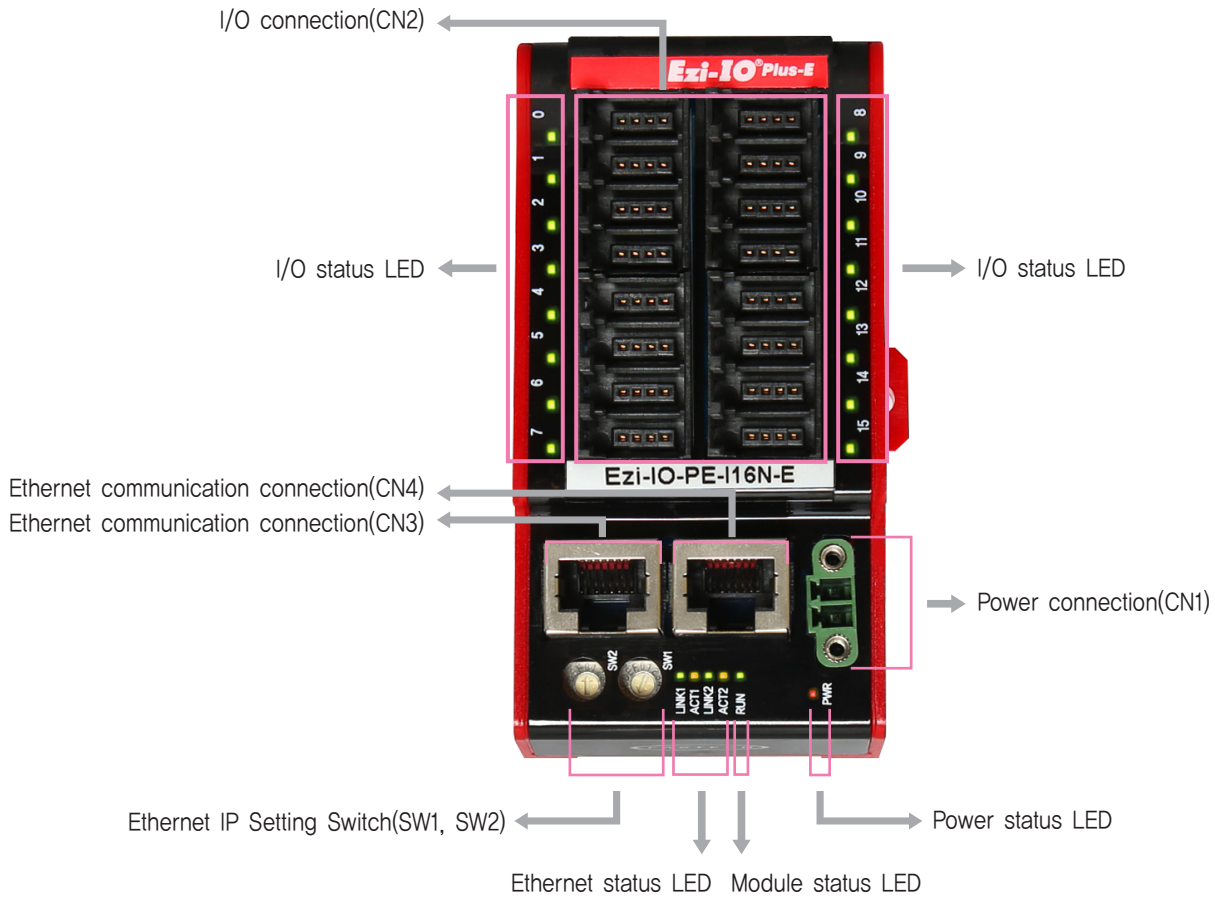
\* ■ : Input / Output Type

□ : NPN / PNP Type

\* Can be installed on 35mm DIN Rail.



# ● Settings and Operation [Ezi-IO-PE-16-E / Ezi-IO-PE-I808-E Series]



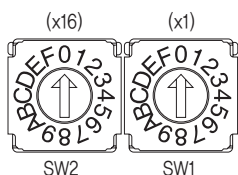
## 1. Status LED

Indication	Color	Function	ON/OFF Condition
PWR	Red	Power input indication	Turn on when power is applied
RUN	Green	Display module status	Flashing when normal operation
Link1,2	Green	Link Status	Turn on when Link is activated
ACT1,2	Yellow	Activity Status	Flashing when communicating
0~15 0~7/0~7	Green	I/O status indication	Input Module : Turn on when input signal is ON Output Module : Turn on when output signal is ON

## 2. Ethernet IP Display and Setting Switch(SW1, SW2)

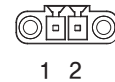
It can be set the value of the fourth digit of Ethernet IP through the setting switch. Set the product's IP not to overlap with the connected products. The first, second and third values of IP can be set through the GUI. Please refer to the manual for details. When the switch is set to 255 (FF), IP is automatically set, ignoring the setting. (DHCP function).

Example) in case SW2=5, SW1=7  
 $(5 \times 16) + (7 \times 1) = 87$   
 therefore, IP: 192.168.0.87



## 3. Power Connector(CN1)

NO.	Function	I/O
1	24VDC	Input
2	GND	Input



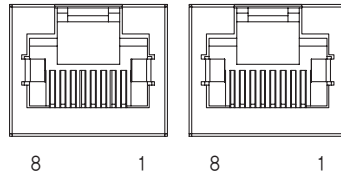
\* Be sure to supply power which is suitable for the load of I/O and control.

#### 4. I/O Connector(CN2)

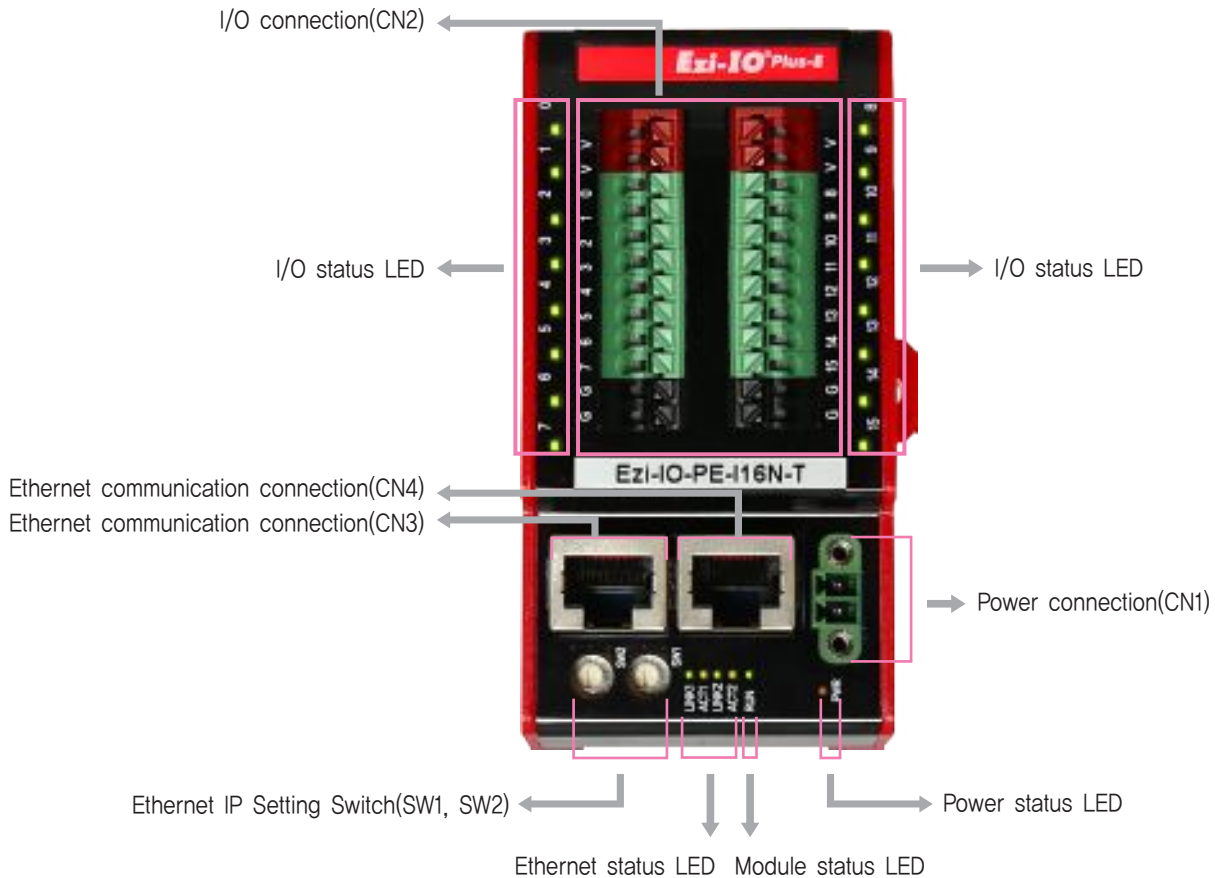
NO.	Function	I/O
1	24VDC	Output
2	NC	-----
3	GND	Output
4	SIGNAL	I/O

#### 5. Ethernet Communication Connector(CN3, CN4)

NO.	Function	NO.	Function
1	TD+	6	RD-
2	TD-	7	-----
3	RD+	8	-----
4	-----	Connector Hood	F.GND
5	-----		



# ● Settings and Operation [Ezi-IO-PE-16-T / Ezi-IO-PE-I808-T Series]



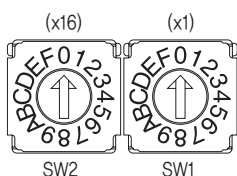
## 1. Status LED

Indication	Color	Function	ON/OFF Condition
PWR	Red	Power input indication	Turn on when power is applied
RUN	Green	Display module status	Flashing when normal operation
Link1,2	Green	Link Status	Turn on when Link is activated
ACT1,2	Yellow	Activity Status	Flashing when communicating
0~15 0~7/0~7	Green	I/O status indication	Input Module : Turn on when input signal is ON Output Module : Turn on when output signal is ON

## 2. Ethernet IP Display and Setting Switch(SW1, SW2)

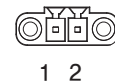
It can be set the value of the fourth digit of Ethernet IP through the setting switch. Set the product's IP not to overlap with the connected products. The first, second and third values of IP can be set through the GUI. Please refer to the manual for details. When the switch is set to 255 (FF), IP is automatically set, ignoring the setting. (DHCP function).

Example) in case SW2=5, SW1=7  
 $(5 \times 16) + (7 \times 1) = 87$   
 therefore, IP: 192.168.0.87



## 3. Power Connector(CN1)

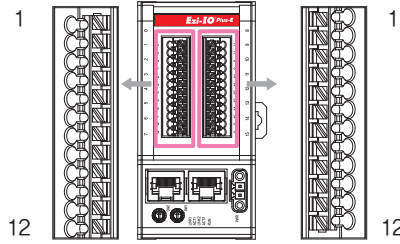
NO.	Function	I/O
1	24VDC	Input
2	GND	Input



\* Be sure to supply power which is suitable for the load of I/O and control.

#### 4. I/O Connector(CN2)

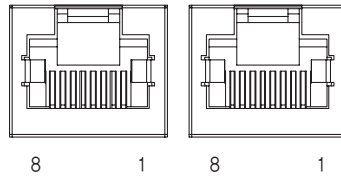
NO.	Function	I/O
1	24VDC	Output
2	24VDC	Output
3	SIGNAL	I/O
4	SIGNAL	I/O
5	SIGNAL	I/O
6	SIGNAL	I/O
7	SIGNAL	I/O
8	SIGNAL	I/O
9	SIGNAL	I/O
10	SIGNAL	I/O
11	GND	Output
12	GND	Output



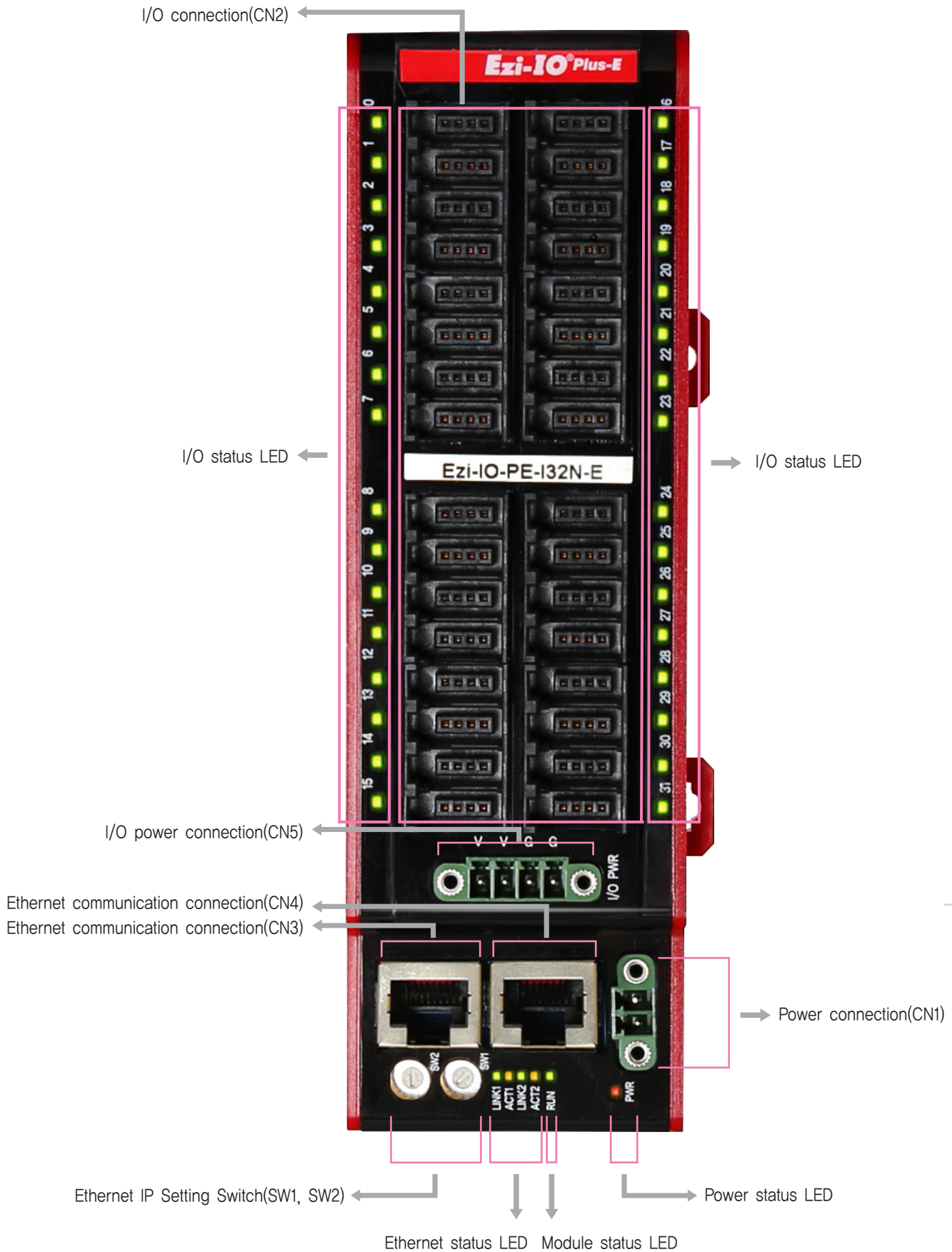
NO.	Function	I/O
1	24VDC	Output
2	24VDC	Output
3	SIGNAL	I/O
4	SIGNAL	I/O
5	SIGNAL	I/O
6	SIGNAL	I/O
7	SIGNAL	I/O
8	SIGNAL	I/O
9	SIGNAL	I/O
10	SIGNAL	I/O
11	GND	Output
12	GND	Output

#### 5. Ethernet Communication Connector(CN3, CN4)

NO.	Function	NO.	Function
1	TD+	6	RD-
2	TD-	7	----
3	RD+	8	----
4	----	Connector Hood	F.GND
5	----		



● Settings and Operation [Ezi-IO-PE-32-E / Ezi-IO-PE-I16016-E Series]





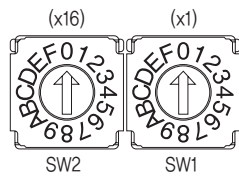
## 1. Status LED

Indication	Color	Function	ON/OFF Condition
PWR	Red	Power input indication	Turn on when power is applied
RUN	Green	Display module status	Flashing when normal operation
Link1,2	Green	Link Status	Turn on when Link is activated
ACT1,2	Yellow	Activity Status	Flashing when communicating
0~31 0~15/0~15	Green	I/O status indication	Input Module : Turn on when input signal is ON Output Module : Turn on when output signal is ON

## 2. Ethernet IP Display and Setting (SW1, SW2)

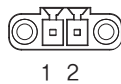
It can be set the value of the fourth digit of Ethernet IP through the setting switch, Set the product's IP not to overlap with the connected products. The first, second and third values of IP can be set through the GUI. Please refer to the manual for details. When the switch is set to 255 (FF), IP is automatically set, ignoring the setting. (DHCP function).

Example) in case SW2=5, SW1=7  
 $(5 \times 16) + (7 \times 1) = 87$   
 therefore, IP: 192.168.0.87



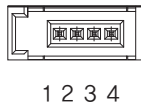
## 3. Control Power Connector(CN1)

NO.	Function	I/O
1	24VDC	Input
2	GND	Input



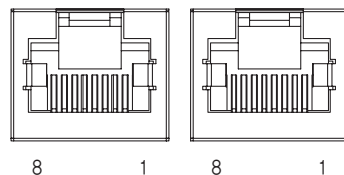
## 4. I/O Connector(CN2)

NO.	Function	I/O
1	EXT_24VDC	Output
2	NC	----
3	EXT_GND	Output
4	SIGNAL	I/O



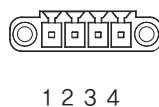
## 5. Ethernet Communication Connector(CN3, CN4)

NO.	Function	NO.	Function
1	TD+	6	RD-
2	TD-	7	----
3	RD+	8	----
4	----	Connector Hood	F.GND
5	----		



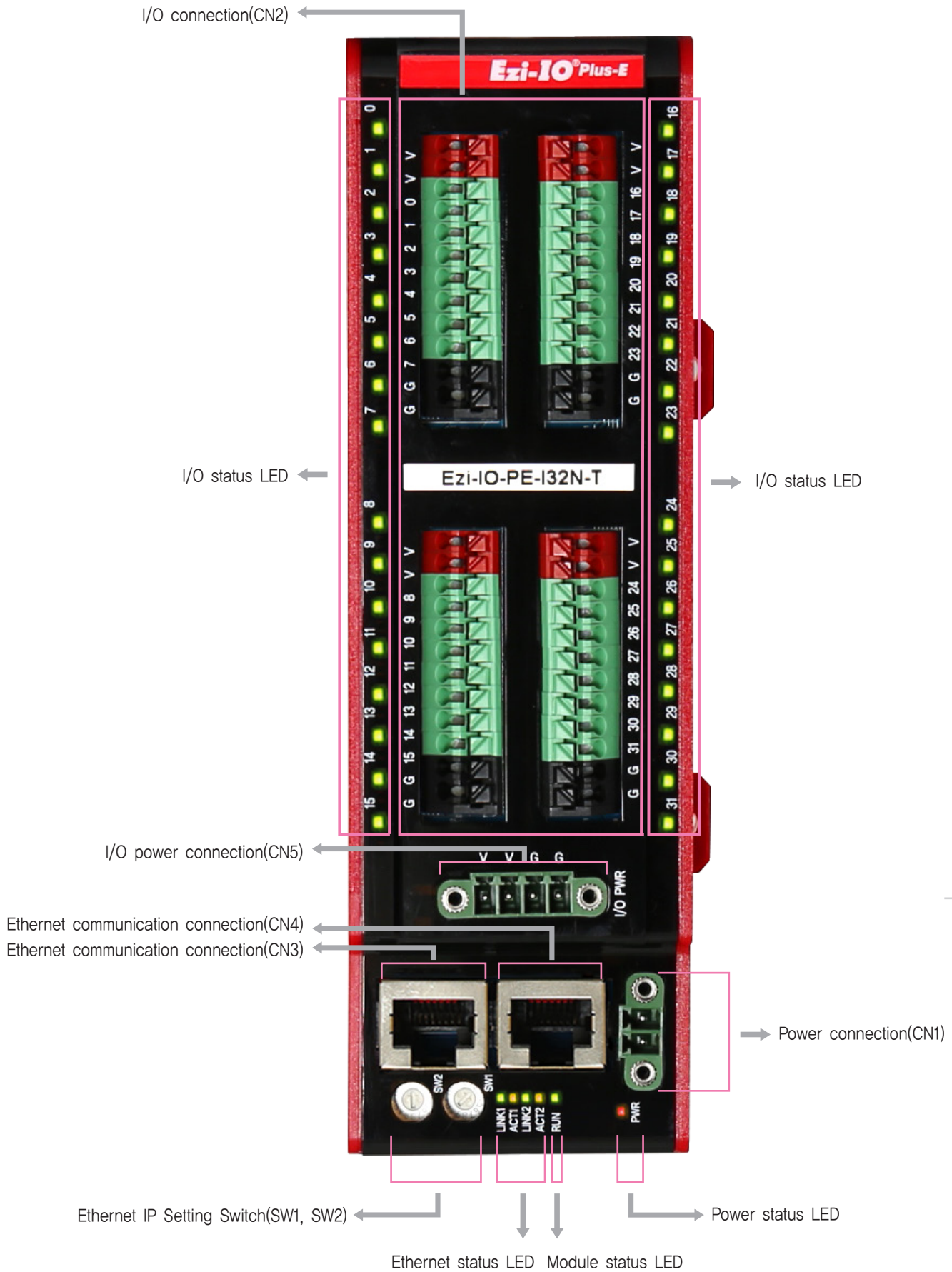
## 6. I/O Power Connector(CN5)

NO.	Function	I/O
1	EXT_24VDC	Input
2	EXT_24VDC	Input
3	EXT_GND	Input
4	EXT_GND	Input



\* Be sure to supply a power source which is suitable for the load of I/O.

● Settings and Operation [Ezi-IO-PE-32-T / Ezi-IO-PE-I16016-T Series]



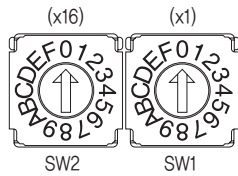
## 1. Status LED

Indication	Color	Function	ON/OFF Condition
PWR	Red	Power input indication	Turn on when power is applied
RUN	Green	Display module status	Flashing when normal operation
Link1,2	Green	Link Status	Turn on when Link is activated
ACT1,2	Yellow	Activity Status	Flashing when communicating
0~31 0~15/0~15	Green	I/O status indication	Input Module : Turn on when input signal is ON Output Module : Turn on when output signal is ON

## 2. Ethernet IP Display and Setting (SW1, SW2)

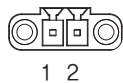
It can be set the value of the fourth digit of Ethernet IP through the setting switch, Set the product's IP not to overlap with the connected products. The first, second and third values of IP can be set through the GUI. Please refer to the manual for details. When the switch is set to 255 (FF), IP is automatically set, ignoring the setting. (DHCP function).

Example) in case SW2=5, SW1=7  
 $(5 \times 16) + (7 \times 1) = 87$   
 therefore, IP: 192.168.0.87



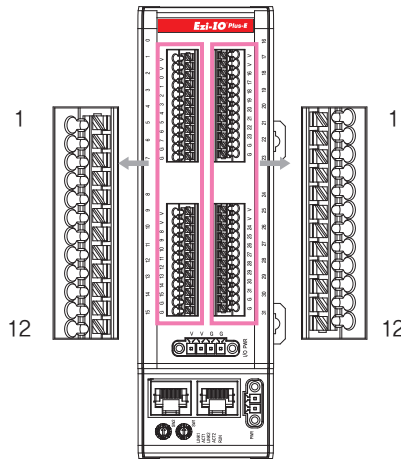
## 3. Control Power Connector(CN1)

NO.	Function	I/O
1	24VDC	Input
2	GND	Input



## 4. I/O Connector(CN2)

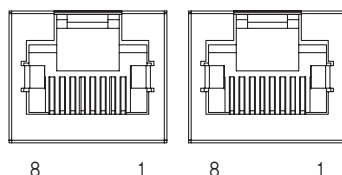
NO.	Function	I/O
1	EXT_24VDC	Output
2	EXT_24VDC	Output
3	SIGNAL	I/O
4	SIGNAL	I/O
5	SIGNAL	I/O
6	SIGNAL	I/O
7	SIGNAL	I/O
8	SIGNAL	I/O
9	SIGNAL	I/O
10	SIGNAL	I/O
11	EXT_GND	Output
12	EXT_GND	Output



NO.	Function	I/O
1	EXT_24VDC	Output
2	EXT_24VDC	Output
3	SIGNAL	I/O
4	SIGNAL	I/O
5	SIGNAL	I/O
6	SIGNAL	I/O
7	SIGNAL	I/O
8	SIGNAL	I/O
9	SIGNAL	I/O
10	SIGNAL	I/O
11	EXT_GND	Output
12	EXT_GND	Output

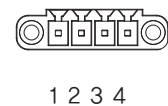
## 5. Ethernet Communication Connector(CN3, CN4)

NO.	Function	NO.	Function
1	TD+	6	RD-
2	TD-	7	----
3	RD+	8	----
4	----	Connector Hood	F.GND
5	----		



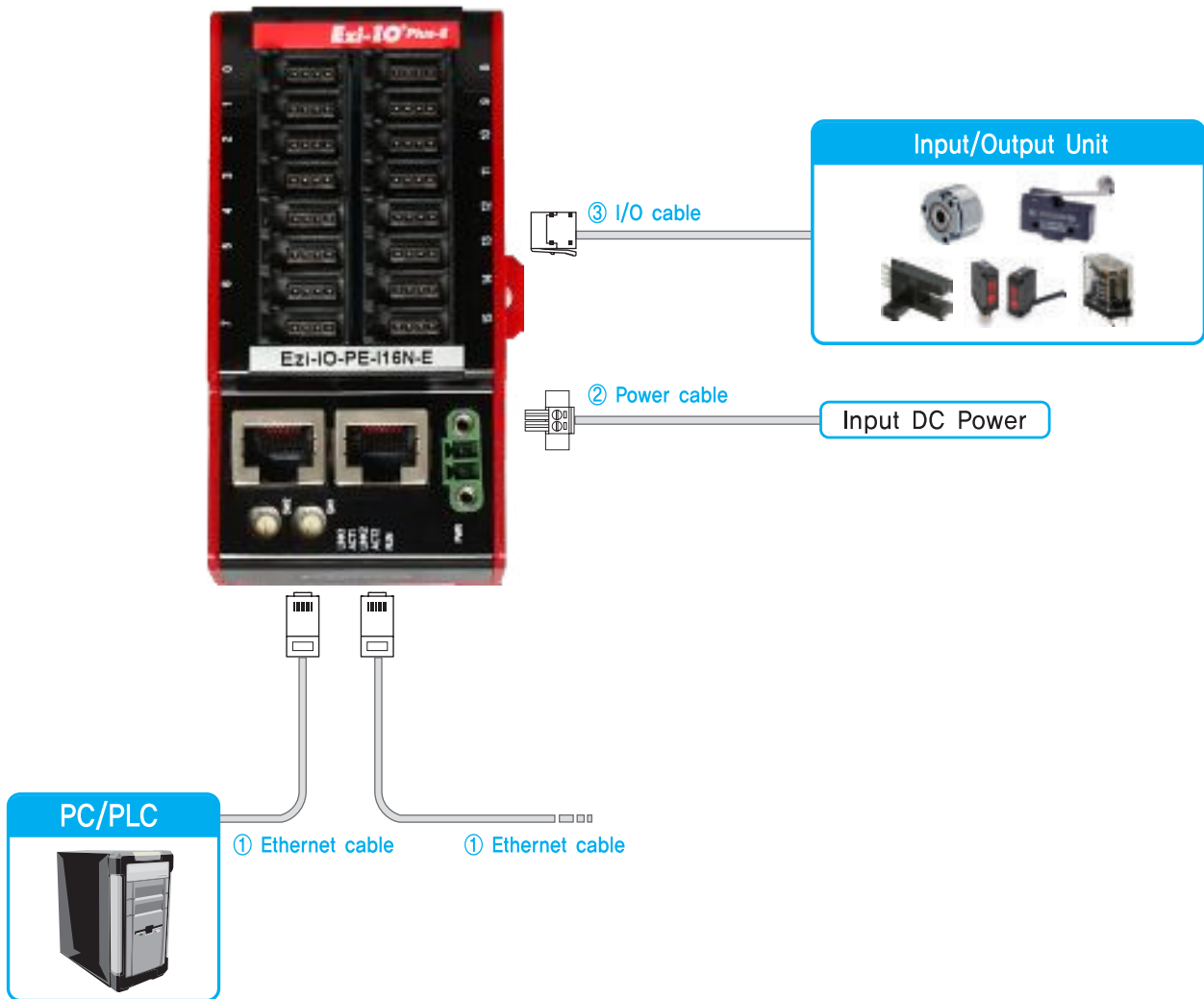
## 6. I/O Power Connector(CN5)

NO.	Function	I/O
1	EXT_24VDC	Input
2	EXT_24VDC	Input
3	EXT_GND	Input
4	EXT_GND	Input



\* Be sure to supply a power source which is suitable for the load of I/O.

● System Configuration [Ezi-IO-PE-16□-E / Ezi-IO-PE-1808□-E Series]



Type	I/O Cable	Power Cable	Ethernet Cable
Length supplied	-	-	-
Max. Length	20m	2m	100m

### 1. Options

#### ① Ethernet Cable

STP (Shielded Twisted Pair) cable of category 5e or higher.

Item	Length [m]	Remark
CGNR-EC-□□□F	□□□	Normal cable

□ is for Cable Length. The unit is 1m and Max. 100m length.

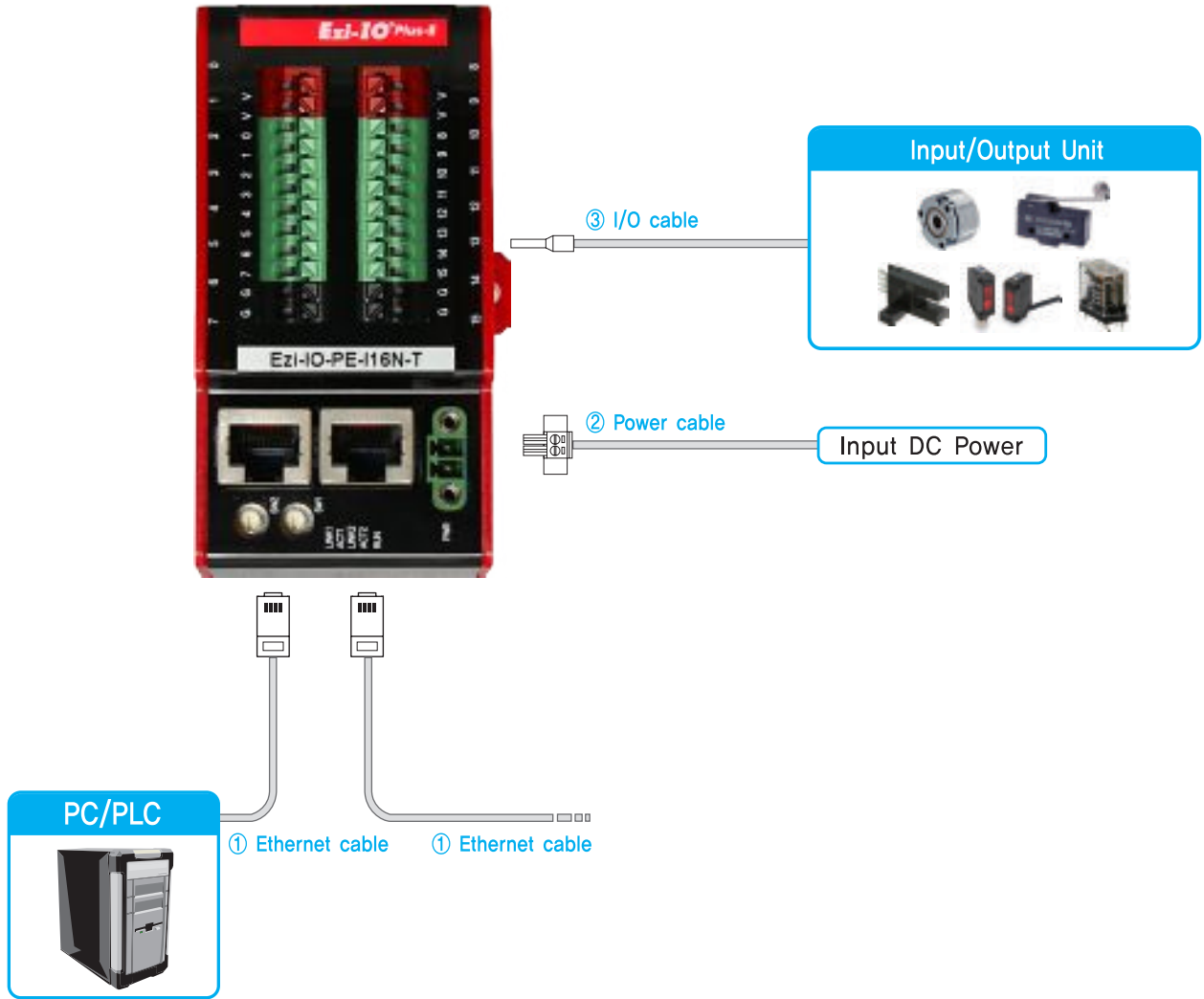
### 2. Connector Specifications

Connector specifications for cabling to module.

Purpose	Item	Part Number	Manufacturer
Power(CN1)	Terminal Block	MC421-38102	DECA
I/O(CN2)	e-CON Plug Connector	CNE-P04-YW	Autonics

※ Above connector is the most suitable product for the module applied. Another equivalent connector can be used.

● System Configuration [Ezi-IO-PE-16□-T / Ezi-IO-PE-1808□-T Series]



Type	I/O Cable	Power Cable	Ethernet Cable
Length supplied	-	-	-
Max. Length	20m	2m	100m

1. Options

① Ethernet Cable

STP (Shielded Twisted Pair) cable of category 5e or higher.

Item	Length [m]	Remark
CGNR-EC-□□□F	□□□	Normal cable

□ is for Cable Length. The unit is 1m and Max. 100m length.

2. Connector Specifications

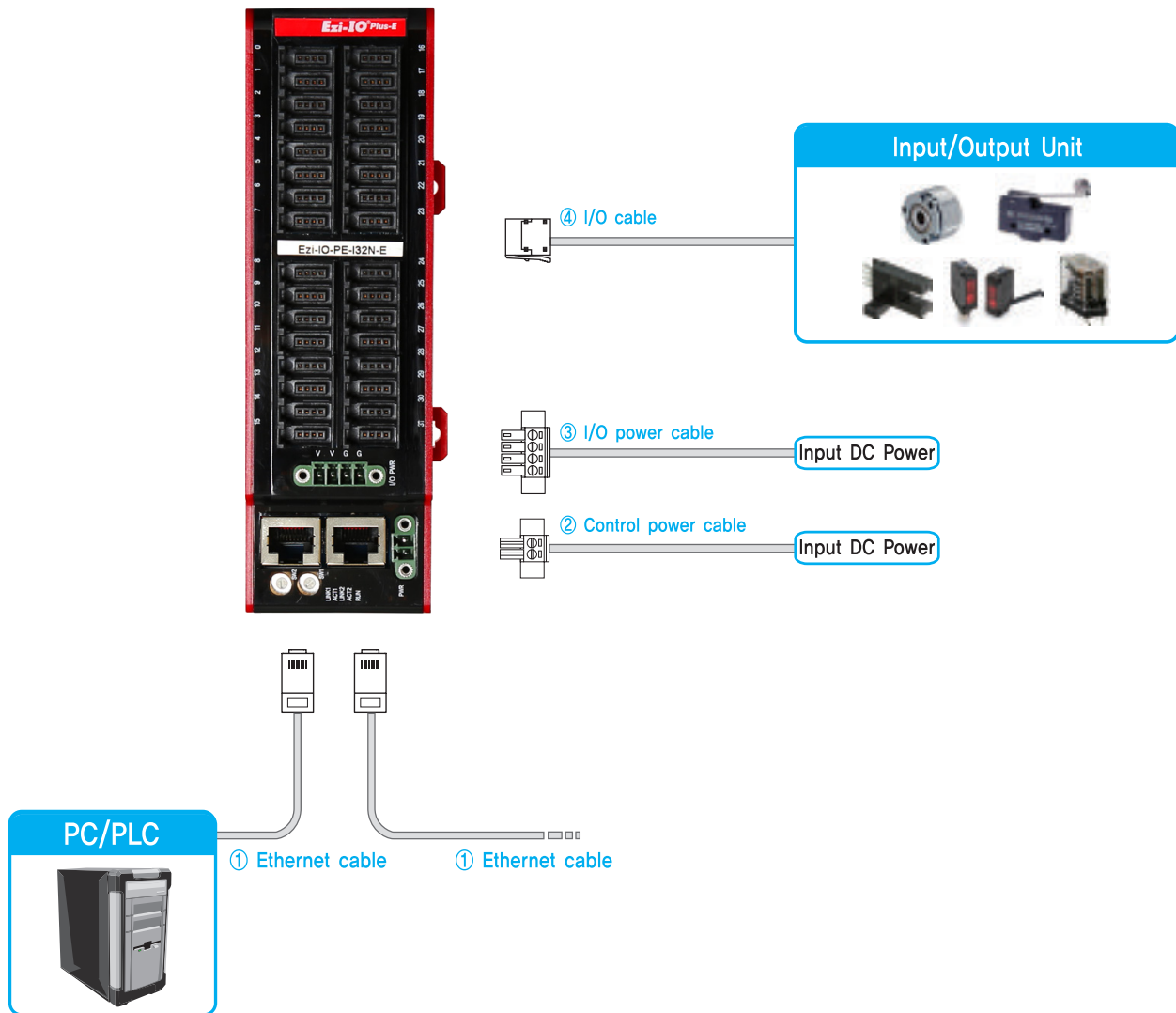
Connector specifications for cabling to module.

Purpose	Item	Part Number	Manufacturer
Power(CN1)	Terminal Block	MC421-38102	DECA

※ Above connector is the most suitable product for the module applied. Another equivalent connector can be used.



## ● System Configuration [Ezi-IO-PE-32-E / Ezi-IO-PE-16016-E Series]



Type	I/O Cable	Control Power Cable	I/O Power Cable	Ethernet Cable
Length supplied	-	-	-	-
Max. Length	20m	2m	2m	100m

### 1. Options

#### ① Ethernet Cable

STP (Shielded Twisted Pair) cable of category 5e or higher.

Item	Length [m]	Remark
CGNR-EC-□□□F	□□□	Normal cable

□ is for Cable Length. The unit is 1m and Max. 100m length.

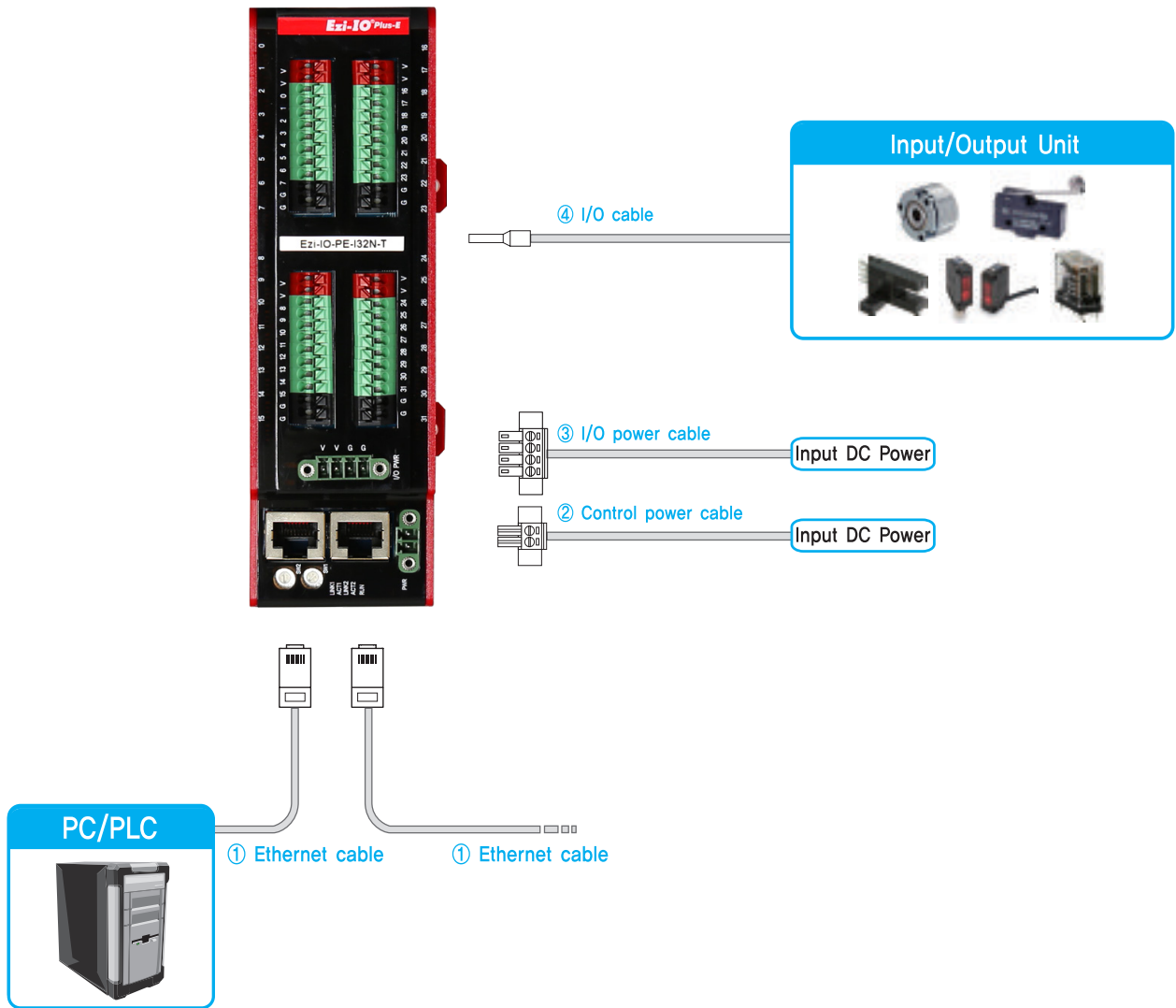
### 2. Connector Specifications

Connector specifications for cabling to module.

Purpose	Item	Part Number	Manufacturer
Control Power(CN1)	Terminal Block	MC421-38102	DECA
I/O Power(CN5)	Terminal Block	MC421-38104	DECA
I/O(CN2)	e-CON Plug Connector	CNE-P04-YW	Autonics

※ Above connector is the most suitable product for the module applied. Another equivalent connector can be used.

# ● System Configuration [Ezi-IO-PE-32□-T / Ezi-IO-PE-I16016□-T Series]



Type	I/O Cable	Control Power Cable	I/O Power Cable	Ethernet Cable
Length supplied	-	-	-	-
Max. Length	20m	2m	2m	100m

FASTECH Ezi-IO Plus-E

## 1. Options

### ① Ethernet Cable

STP (Shielded Twisted Pair) cable of category 5e or higher.

Item	Length [m]	Remark
CGNR-EC-□□□F	□□□	Normal cable

□ is for Cable Length. The unit is 1m and Max, 100m length.

## 2. Connector Specifications

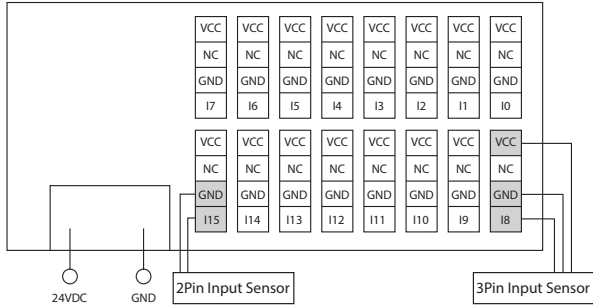
Connector specifications for cabling to module.

Purpose	Item	Part Number	Manufacturer
Control Power(CN1)	Terminal Block	MC421-38102	DECA
I/O Power(CN5)	Terminal Block	MC421-38104	DECA

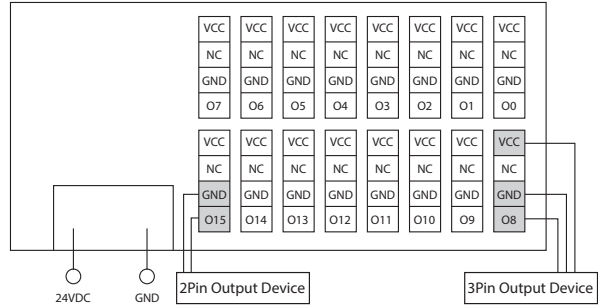
※ Above connector is the most suitable product for the module applied. Another equivalent connector can be used.

# External Wiring Diagram [Ezi-IO-PE-16□-E / Ezi-IO-PE-1808□-E Series]

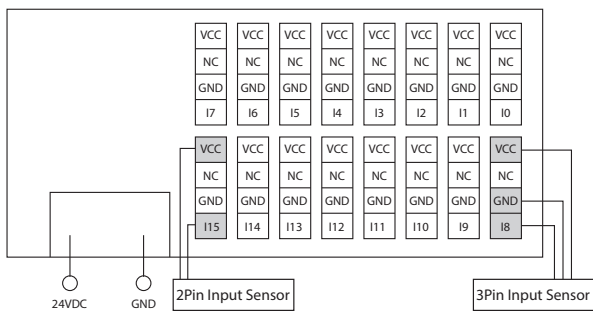
## 1 Ezi-IO-PE-I16N-E(NPN)



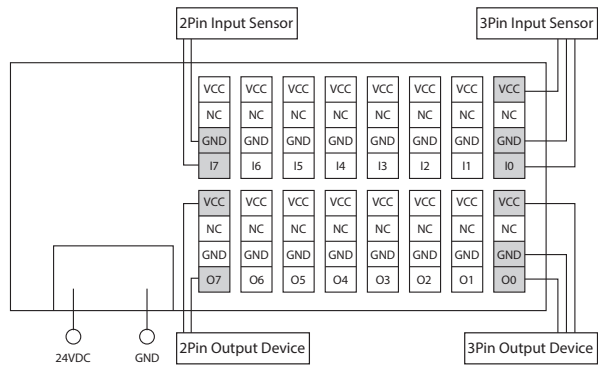
## 4 Ezi-IO-PE-O16P-E(PNP)



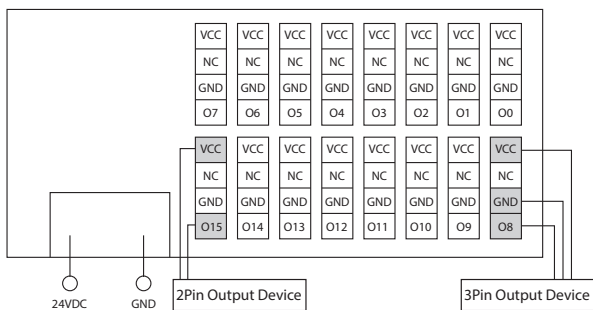
## 2 Ezi-IO-PE-I16P-E(PNP)



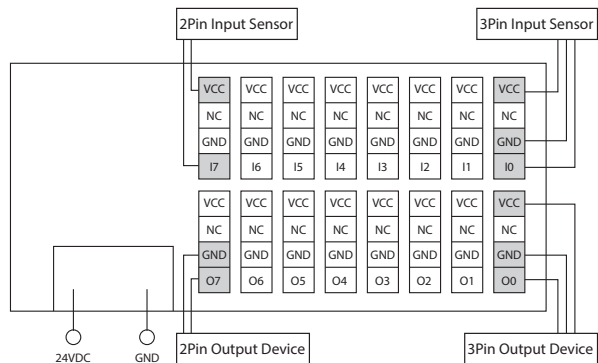
## 5 Ezi-IO-PE-I808N-E(NPN)



## 3 Ezi-IO-PE-O16N-E(NPN)



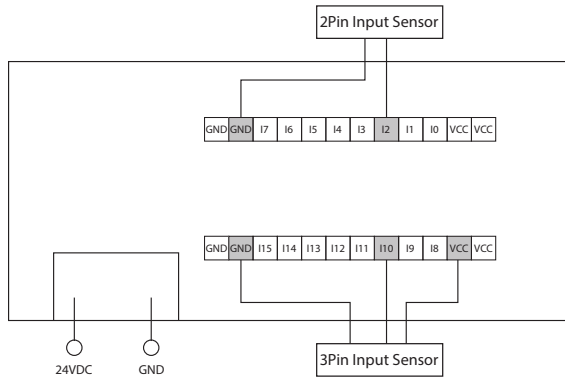
## 6 Ezi-IO-PE-I808P-E(PNP)



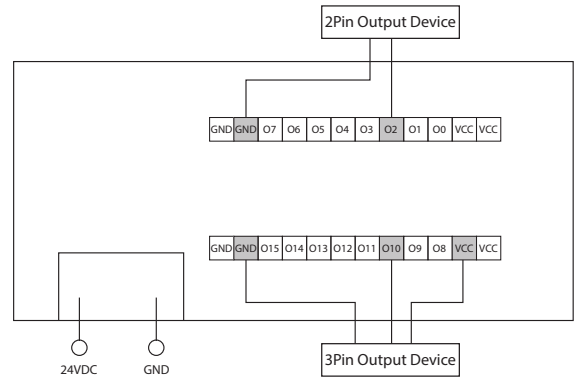
- ※ VCC is 24VDC output.
- ※ ex) · 2Pin Input Sensor : Limit Sensor, etc.
- 3Pin Input Sensor : Position Sensor, Photo Sensor, Proximity Sensor, etc.
- 2Pin Output Device : Brake, Solenoid, Photocoupler, etc.

● External Wiring Diagram [Ezi-IO-PE-16□-T / Ezi-IO-PE-1808□-T Series]

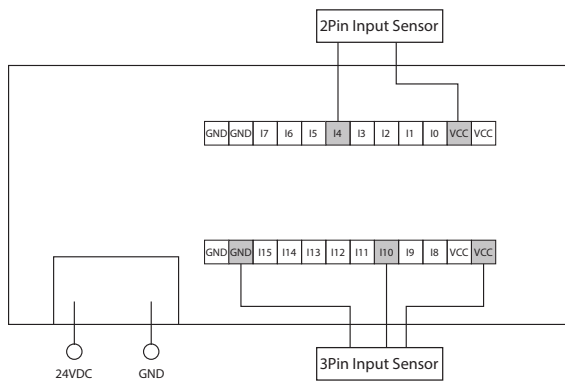
1 Ezi-IO-PE-116N-T(NPN)



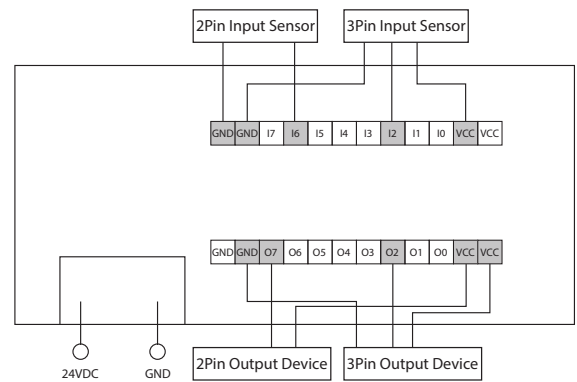
4 Ezi-IO-PE-016P-T(PNP)



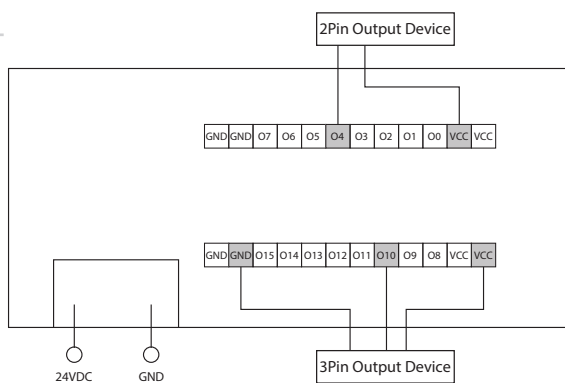
2 Ezi-IO-PE-116P-T(PNP)



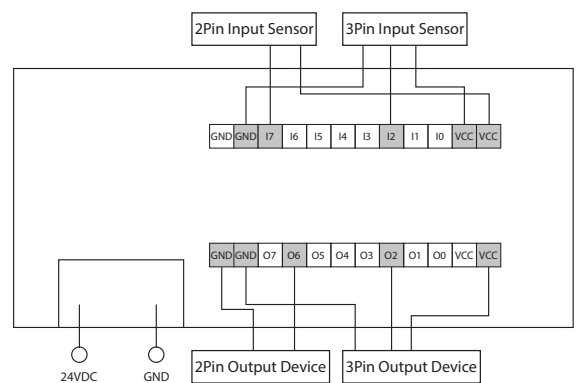
5 Ezi-IO-PE-1808N-T(NPN)



3 Ezi-IO-PE-016N-T(NPN)



6 Ezi-IO-PE-1808P-T(PNP)



※ VCC is 24VDC output.

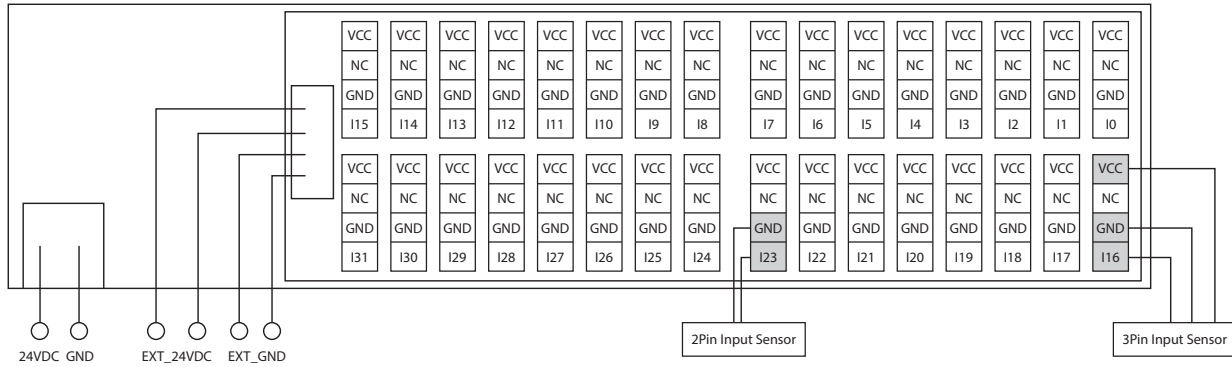
※ ex) · 2Pin Input Sensor : Limit Sensor, etc.

· 3Pin Input Sensor : Position Sensor, Photo Sensor, Proximity Sensor, etc.

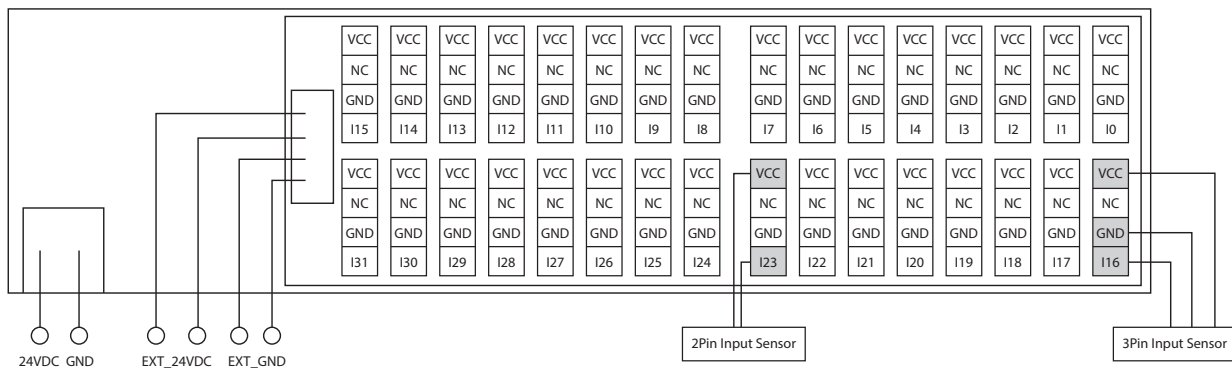
· 2Pin Output Device : Brake, Solenoid, Photocoupler, etc.

# External Wiring Diagram [Ezi-IO-PE-32□-E / Ezi-IO-PE-I16016□-E Series]

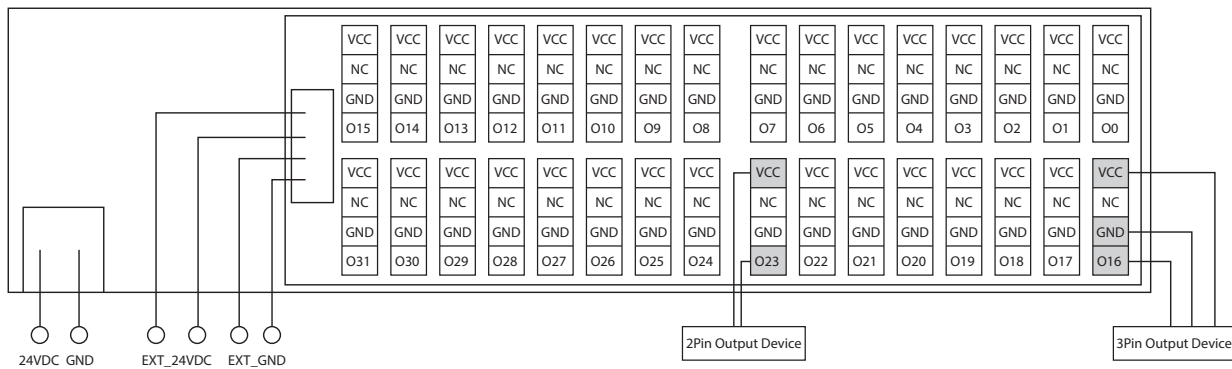
## 1 Ezi-IO-PE-I32N-E(NPN)



## 2 Ezi-IO-PE-I32P-E(PNP)



## 3 Ezi-IO-PE-O32N-E(NPN)

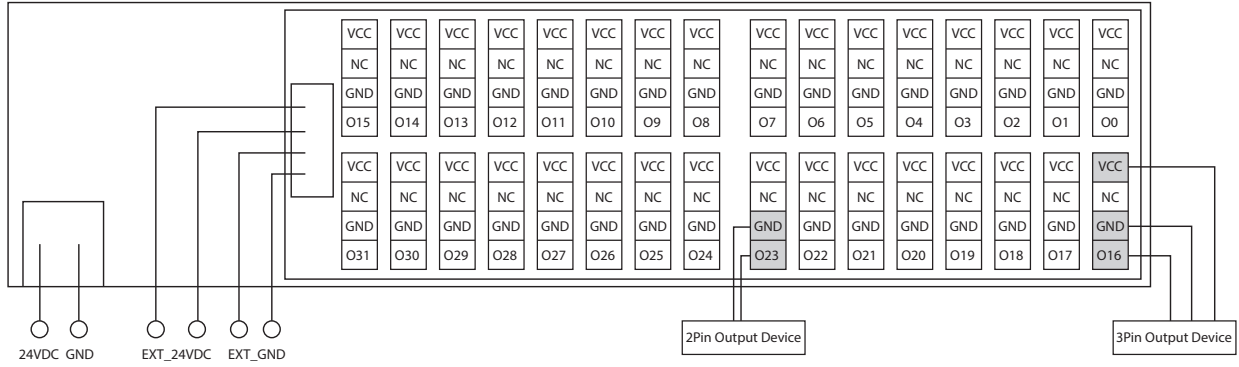


- ※ VCC is supplied from I/O Power Connector(CN5).
- ※ Be sure to supply power to I/O Power Connector(CN5) which is suitable for the load of I/O.
- ※ ex) · 2Pin Input Sensor : Limit Sensor, etc.
- 3Pin Input Sensor : Position Sensor, Photo Sensor, Proximity Sensor, etc.
- 2Pin Output Device : Brake, Solenoid, Photocoupler, etc.

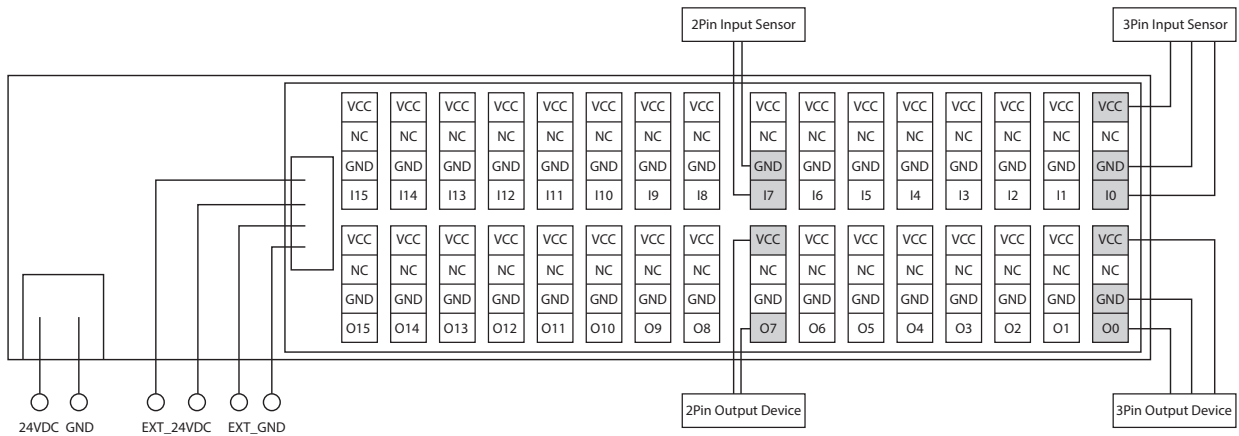


● External Wiring Diagram [Ezi-IO-PE-■32□-E / Ezi-IO-PE-I16O16□-E Series]

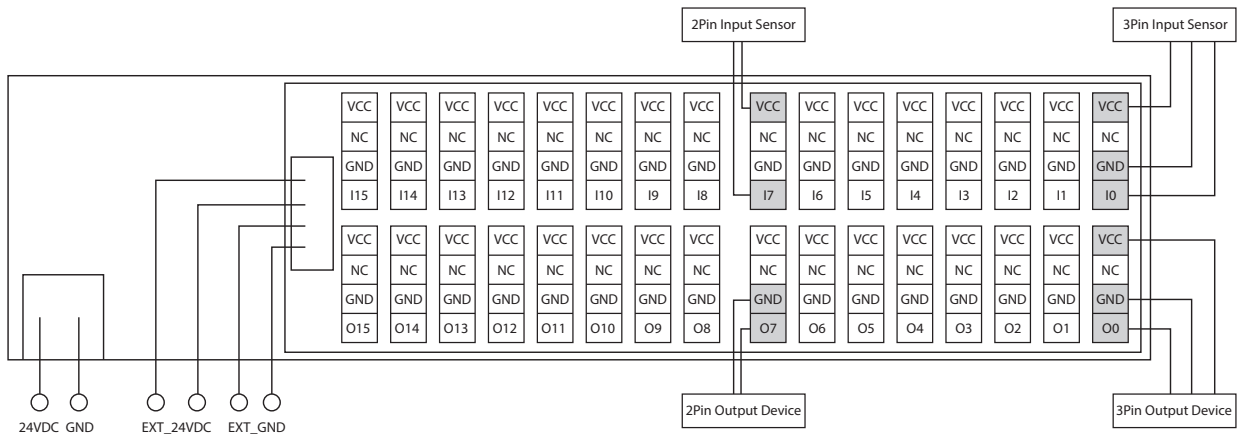
4 Ezi-IO-PE-O32P-E(PNP)



5 Ezi-IO-PE-I16O16N-E(NPN)



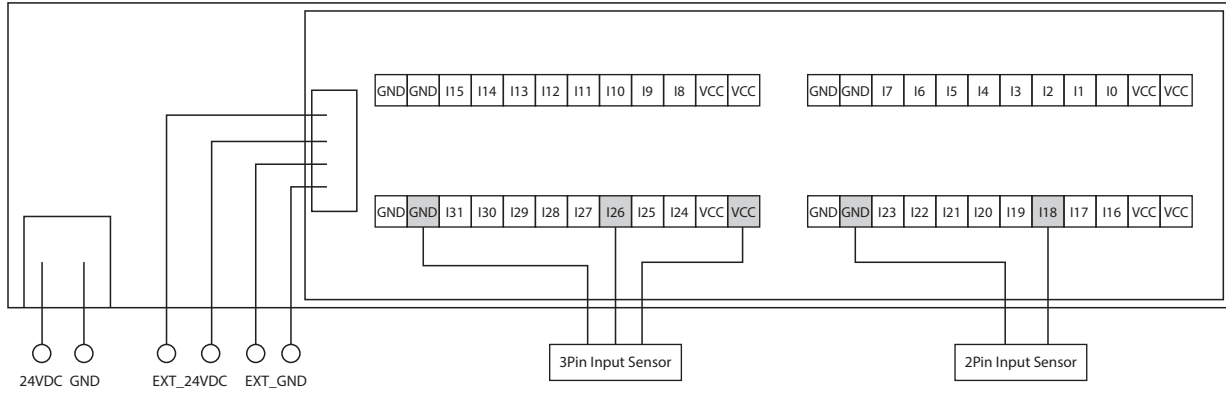
6 Ezi-IO-PE-I16O16P-E(PNP)



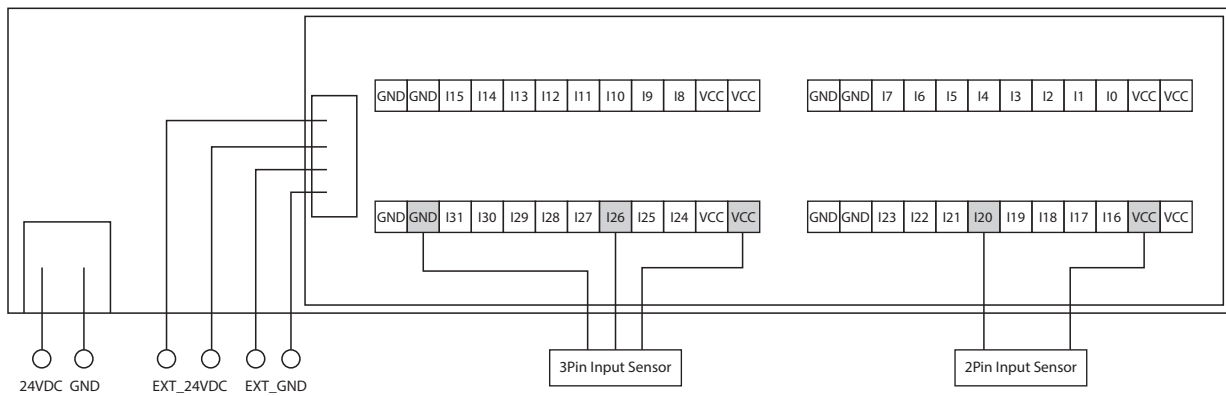
- ※ VCC is supplied from I/O Power Connector(CN5).
- ※ Be sure to supply power to I/O Power Connector(CN5) which is suitable for the load of I/O.
- ※ ex) · 2Pin Input Sensor : Limit Sensor, etc.
- 3Pin Input Sensor : Position Sensor, Photo Sensor, Proximity Sensor, etc.
- 2Pin Output Device : Brake, Solenoid, Photocoupler, etc.

# External Wiring Diagram [Ezi-IO-PE-32-T / Ezi-IO-PE-16016-T Series]

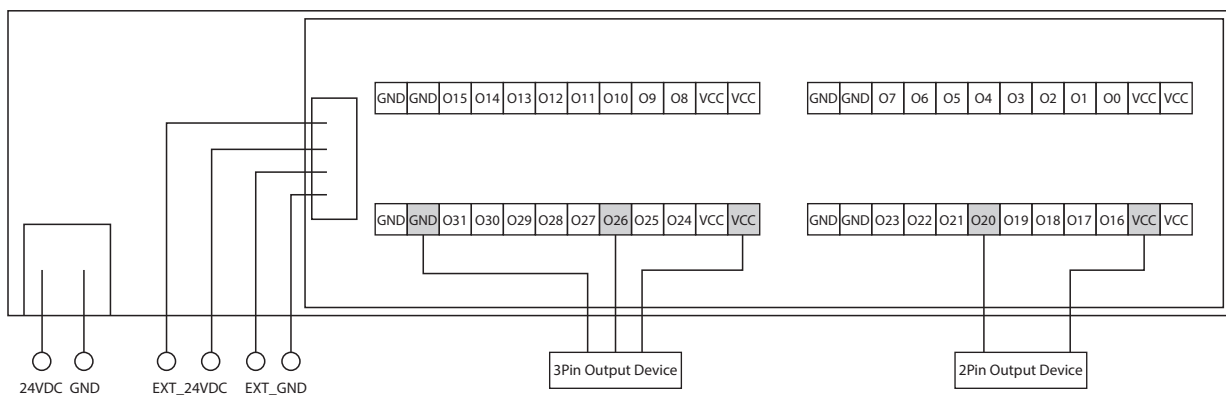
## 1 Ezi-IO-PE-I32N-T(NPN)



## 2 Ezi-IO-PE-I32P-T(PNP)



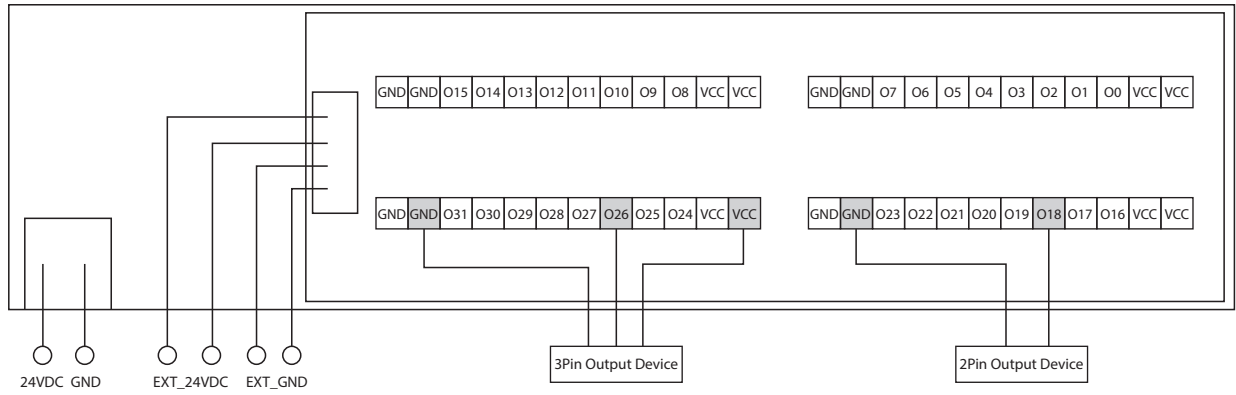
## 3 Ezi-IO-PE-O32N-T(NPN)



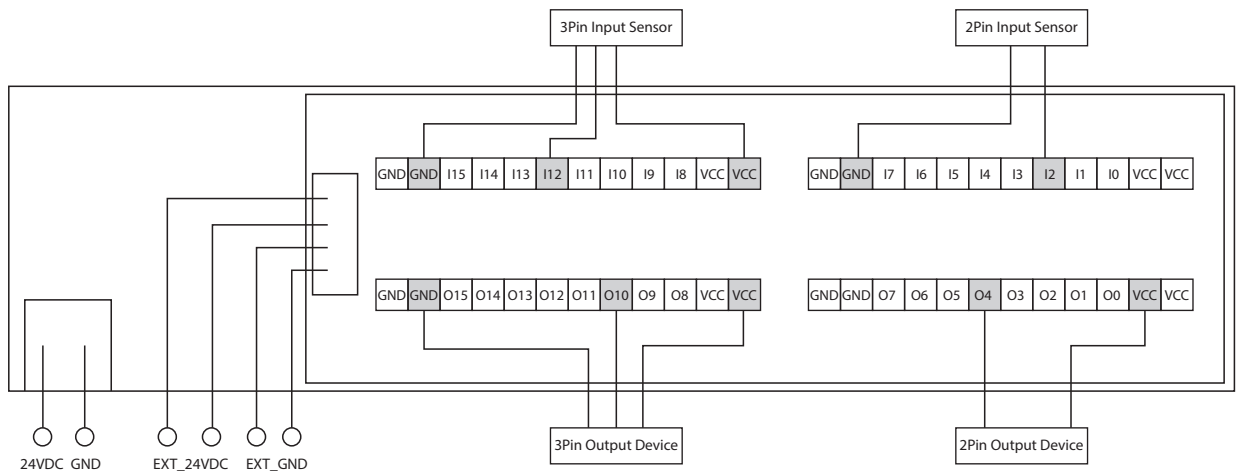
- ※ VCC is supplied from I/O Power Connector(CN5).
- ※ Be sure to supply power to I/O Power Connector(CN5) which is suitable for the load of I/O.
- ※ ex) · 2Pin Input Sensor : Limit Sensor, etc.
- 3Pin Input Sensor : Position Sensor, Photo Sensor, Proximity Sensor, etc.
- 2Pin Output Device : Brake, Solenoid, Photocoupler, etc.

● External Wiring Diagram [Ezi-IO-PE-32□-T / Ezi-IO-PE-I16016□-T Series]

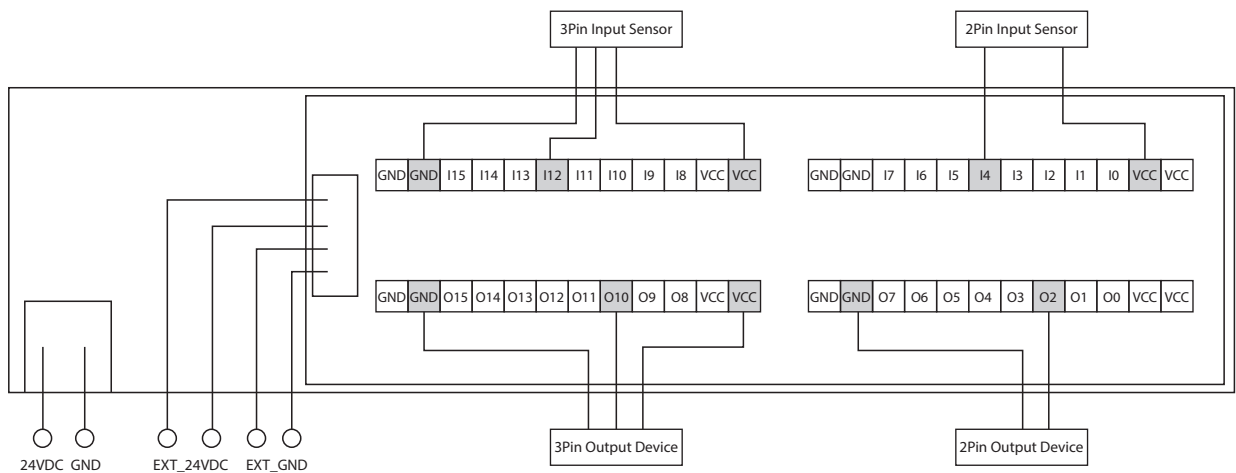
4 Ezi-IO-PE-O32P-T(PNP)



5 Ezi-IO-PE-I16016N-T(NPN)



6 Ezi-IO-PE-I16016P-T(PNP)



- ※ VCC is supplied from I/O Power Connector(CN5).
- ※ Be sure to supply power to I/O Power Connector(CN5) which is suitable for the load of I/O.
- ※ ex) · 2Pin Input Sensor : Limit Sensor, etc.
- 3Pin Input Sensor : Position Sensor, Photo Sensor, Proximity Sensor, etc.
- 2Pin Output Device : Brake, Solenoid, Photocoupler, etc.

## ● GUI(Graphic User Interface) Screenshot



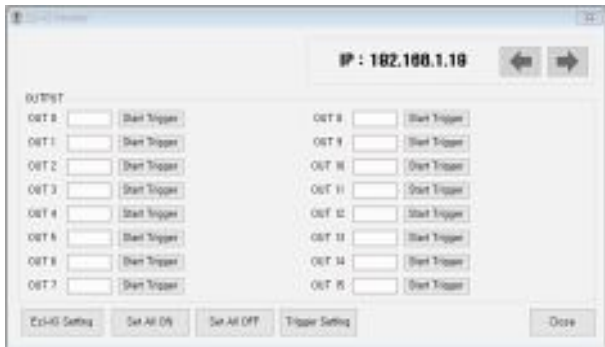
### ◆ Ezi-IO Summary

In/out status of connected in/out board can be monitored at once.



### ◆ Ezi-IO-PE Input series Monitoring

Current input status and Latch status can be monitored.



### ◆ Ezi-IO-PE Output series Monitoring

Control and state of each output can be monitored.



### ◆ I/O Logic Setting

Level of real signal can be selected in order to recognize in/out signal as ON. All changes can be stored and uploaded later.

## ● Remark (NPN / PNP / SINK / SOURCE)

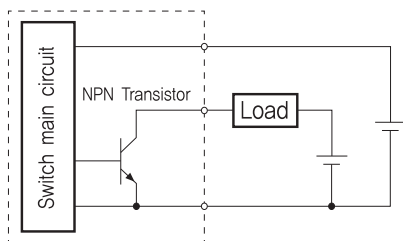


Fig1. NPN Out type interface

Fig1, shows example of NPN out interface. When Transistor is on, Load current is flew into inside of NPN out which we call it as SINK type or NPN open collector type. Please connect (+) voltage into the load which connects output.

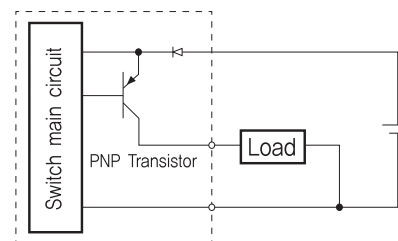


Fig2. PNP Out type interface

Fig2, shows example of PNP out interface. When Transistor is on, Load current is flew out to outside load. We call it as SOURCE type or PNP open collector type. Please connect (-) voltage into other side of load which connects output.



*Fast, Accurate, Smooth Motion*

**FASTECH Co., Ltd.**

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