



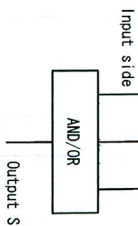
Operation manual

MULTI ANDBOARD eins original

Feature of product

- Detection of AND output/OR output is possible.
- Input and output for sink/source.
- Up to 32 points can be detected (extension unit is used)

■AND/OR



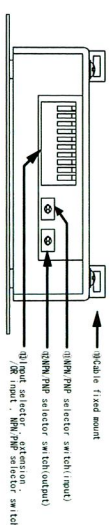
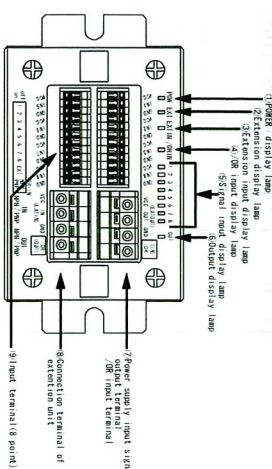
AND: Output S turns on when all the inputs ((1)(2)(3)) are ON.

/OR: Output S turns on when all the inputs ((1)(2)(3)) are OFF.

- For your safety
- For your safety and to avoid a personal injury and property damages, follow the instructions on the operation manual.

CAUTION value to follow this safety precautions may result in damage to the equipment

Name and function of each section

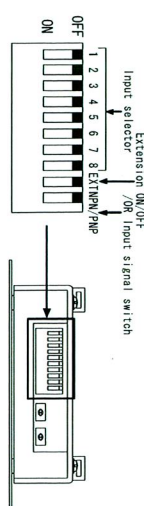


- (1) POWER display lamp
The lamp will be illuminated when the power is switched on.
- (2) Extended display lamp
Illuminates during extended input setting.
- (3) Extended input display lamp
The light is switched on when output of the next extension unit is on.
- (4) /OR input display lamp
Illuminates with OR signal input.
- (5) Signal input display lamp

The light will be illuminated when signal input is switched on.

- (6) Output display lamp
The light is illuminated with output on.
- (7) Power supply input, signal output terminal, /OR input terminal
Input voltage: DC24V, signal output: sink source
Switches AND/OR output with /OR input terminal.
- (8) Connection terminal of extension unit
Supplied power source to extension unit and /OR signal output terminal.
- (9) Input terminal (eight points)
Supply voltage to the sensor is DC24V.
- (10) Cable fixed mount
Used for fixing a cable.
- (11) NPN/PNP selector switch (input)
- (12) NPN/PNP selector switch (output)
- (13) Selection of an input, extension, OR input, NPN/PNP selector switch
Switches setting of input selection, extended functions of unit connection, and polarity of OR input.

Setting



- Input setting
Switch on the DIP switch for the input number to be used.
Lowering the lever activates the mode.

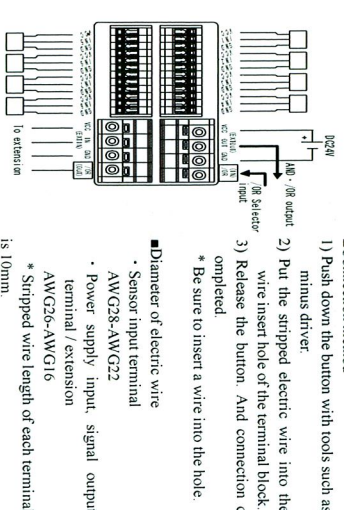
Switching off all DIP switches, output can be ON for the test.

- Extensive setting
Turn on EXT of DIP switch to use the extension unit.

- OR input, NPN/PNP switch setting
The input signal works with both NPN input (+ common) and PNP input (- common).
Changes switch settings to establish the mode.
This switch is factory-configured to NPN.

CAUTION Concurrent use of NPN and PNP in a unit is impossible.
Additional extension unit is needed to use NPN and PNP separately.

Wrong

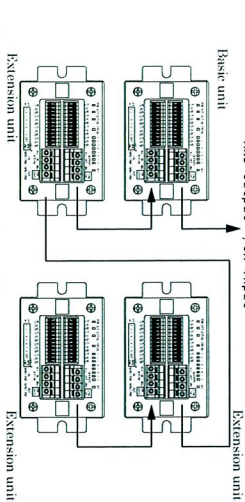


- Wiring method
- Shorten wiring as much as possible.
- Wiring shall not stain the cable fixed mount.

CAUTION

The consumption current of the sensor to connect is at the maximum 40mA or less for a unit.

Extended configuration

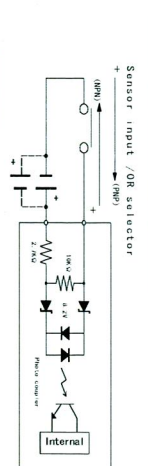


- Up to three extension units can be used for a basic unit.
- Make wiring to AND output and /OR input.
- Adjust the polarity /OR input of all the extensive units with the DIP switch.
- Set NPN side of OUT of extension unit.

Addition of basic units is required when three or more units are extended.

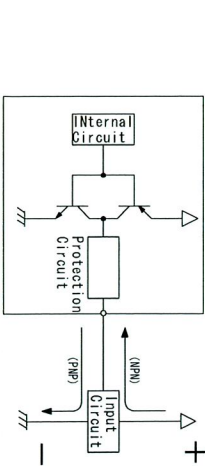
CAUTION POWER display lamp darkens when supply voltage is 21V or less.
Check the supplied power source to the unit.

Configuration of input/output circuit



- Sensor input
Select the input setting with the switch as illustrated according to the output circuit specification of the customer's sensor.
- OR switching input
Select the input with the DIP switch as illustrated according to the output circuit specification of the customer.

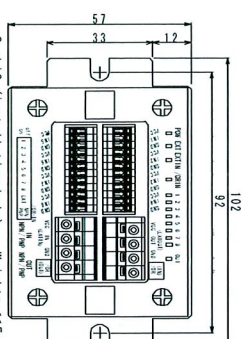
■ Output circuit



Select NPN/PNP as illustrated above according to the input circuit specification of the customer.

CAUTION

100mA or more of current to the output terminal st with the protective circuit.
Turn off the power for return operation. And overcurrent position. Then turn on the power again



- 2-pin/6 (Installation hole) Weight: 115g
- MA-165
- Use the washer of phi10mm or less for M5.

Specification

Pwr supply voltage	DC24V (±10%)
Int consumption cur	100mA or less (at DC24V)
Input current	10mA or less-one point
Output current	100mA(MAX)
Ambient op humidity	35-80% (non-condensing)
Ambient op temperature	0-40 degree centigrade
Use atmosphere	No particulate and corrosive gas

- Warranty
- Six-month warranty period after delivery to the specified p
- Warranty condition
- Parts cost, carrying charge, repair cost, and traveling exp
- chargeable to customers in case of breakdown within the 6
- in normal operation except under out-of-warranty condition
- But Star Seki shall not make compensation for the d
- devices caused by our products regardless of their warranty
- Out of warranty items
- Following items will be provided with counter value even
- period.
- 1) If the trouble was caused by someone except our c
- assigned persons.
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- conditions.
- 3) If our product did not cause the trouble.
- 4) Natural disaster, disaster, or inevitable accident.
- 5) If the product was transferred to other companies with
- us.
- 6) Damage caused by improper storage management.
- 7) Damage caused by uses not in the operation manual.

Inquiry



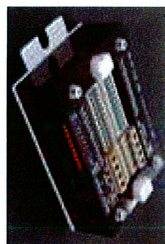
Head office and factory: 3-133, Akita, Ouchu-cho, Niwa-g

Tel: 0587 (05) 7551

Izumo factory: 3-338, Naoe, Hikawa-cho, Izumo-city, Sh

Tel: 0853 (72) 4311

The parts are subject to changes without notice.



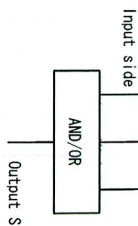
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- Up to 32 points can be detected (extension unit is used)

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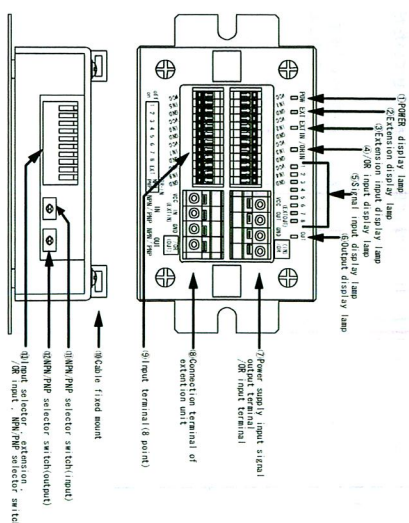


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CAUTION Failure to follow this safety precautions may result in damage to the equipment.

Name and function of each section



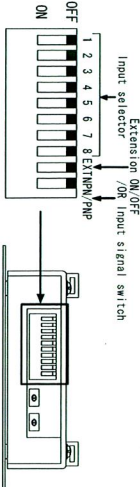
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- (4) OR input display lamp
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The light will be illuminated when signal input is switched on.

- (6) Output display lamp
- (7) Power supply input, signal output terminal, /OR input terminal
- (8) Connection terminal of extension unit
- (9) Input terminal (eight points)
- (10) Cable fixed mount

- (11) NPN/PNP selector switch (input)
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- (13) Selection of an input, extension, OR input, NPN/PNP selector switch

Setting



- Input setting
- Switch on the DIP switch for the input number to be used.
- Lowering the lever activates the mode.

Switching off all DIP switches, output can be ON for the test.

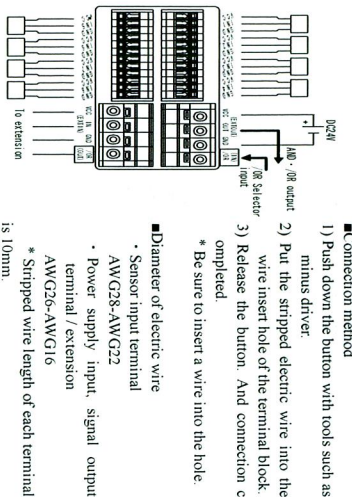
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- The input signal works with both NPN input (+ common) and PNP input (- common).
- Change switch settings to establish the mode.
- This switch is factory-configured to NPN.

CAUTION Concurrent use of NPN and PNP in a unit is impossible.

Additional extension unit is needed to use NPN and PNP separately.

Wiring



- Connection method
- 1) Push down the button with tools such as minus driver.
- 2) Put the stripped electric wire into the wire insert hole of the terminal block.
- 3) Release the button. And connection is completed.
- * Be sure to insert a wire into the hole.
- Diameter of electric wire
- Sensor input terminal
- Power supply input, signal output terminal / extension
- AWG26-AWG16
- * Stripped wire length of each terminal is 10mm.

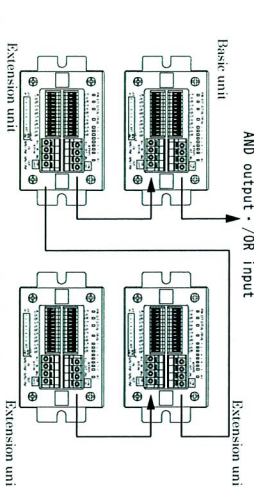
- Wiring method
- Shorten wiring as much as possible.
- Wiring shall not stain the cable fixed mount.

Align the plus and minus terminals of DC24V input/output. Your risk damaging your unit.

CAUTION

The consumption current of the sensor to connect is at the maximum 400mA or less for a unit.

Extended configuration



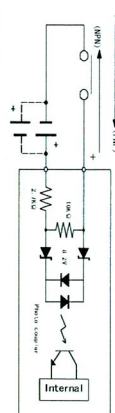
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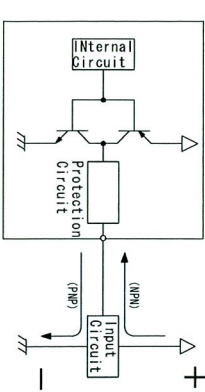
Configuration of input/output circuit

- Sensor input /OR switching input circuit



- Sensor input
- Select the input setting with the switch as illustrated according to the output circuit specification of the customer's sensor.
- /OR switching input
- Select the input with the DIP switch as illustrated according to the output circuit specification of the customer.

■ Output circuit

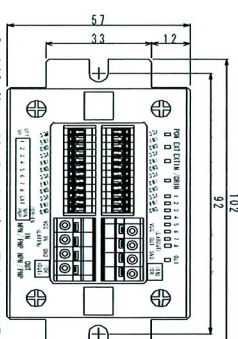


Select NPN/PNP as illustrated above according to the input circuit specification of the customer.

CAUTION

100mA or more of current to the output terminal st with the protective circuit.

Turn off the power for return operation. Ask overcurrent position. Then turn on the power again



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