

Sign Tower

## HY-TN series

### INSTRUCTION MANUAL

Thank you for purchasing HANYOUNG product.  
Please check whether the product is the exactly same as you ordered.  
Before using the product, please read this instruction manual carefully.  
Please keep this manual where you can view at any time

HEAD OFFICE

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HANYOUNG NUX



## Safety information

Before using the product, please read the safety information thoroughly and use it properly. Alerts declared in the manual are classified to Danger, Warning and Caution by their criticality

|                  |  |
|------------------|--|
| <b>⚠ DANGER</b>  | DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury   |
| <b>⚠ WARNING</b> | WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury |
| <b>⚠ CAUTION</b> | CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury  |

### ⚠ Danger

- Be sure to turn off power before connecting wires or changing bulb. It can cause shock.

### ⚠ Warning

- If there is a concern about a serious accident caused by a malfunction or abnormality of this product, please install an external protection circuit and devise a scheme for preventing an accident.
- Please check for the correct voltage before installing it. Over voltage will cause a break down of product
- Please be cautions that contact with chemicals such as thinner or benzene can cause of deformation of the product or color of change.
- If you are concerned about serious accident due to the malfunction of products, please install the external safety equipment.

### ⚠ Caution

- The contents of this manual may be changed without prior notification.
- If the user use the product with methods other than specified by the manufacturer, there may be bodily injuries or property damages.
- This product is only suitable for indoor use. Please keep it away from damp place.
- Please refer to the "Wiring Diagram" when you wire the product. Incorrect wiring will cause a break down of product.
- Applying a strong shock on the outside of product may cause a break down of product.
- Please be cautions that contact with chemicals such as thinner or benzene can cause of deformation of the product or color of change
- When replacing bulb, please use the same specification bulb as indicated in the manual
- End of unused lead wire must be insulated.
- For the install place, please choose place that has sufficient strength and vibration
- Please use fuse (250 V 1A) for the power line.
- Please make sure that the product should be grounded with the unit desired to be installed.
- When mounting/dismounting the product on a unit, please conduct operations after turning off the power of the main unit.
- If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may protection provided by the equipment may be impaired
- The symbol regarding to the safety is attached to the main unit and power lead wires.

## Suffix code

| Model                | Code  | Description                                   |
|----------------------|---|---|
| HY--                 | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | HY series sign tower                          |
| Function             | TN  | Continuous light only                         |
|                      | TWN   | Continuous light, flashing light              |
|                      | TBN   | Continuous light, buzzer                      |
|                      | TWBN  | Continuous light, flashing light, buzzer      |
|                      | TLN   | Continuous light only                         |
|                      | TWLN  | Continuous light, flashing light              |
|                      | TBLN  | Continuous light, buzzer                      |
| Power supply voltage | 12  | 12 V d.c (Incandescent lamp / LED lamp)       |
|                      | 24  | 24 V d.c (Incandescent lamp / LED lamp)       |
|                      | 110   | 110 V a.c (Incandescent lamp / LED lamp)      |
|                      | 220   | 220 V a.c (Incandescent lamp / LED lamp)      |
| Stacking modules     | 1   | 1 stack (Red)                                 |
|                      | 2   | 2 stack (Red, green)                          |
|                      | 3   | 3 stack (Red, yellow, green)                  |
|                      | 4   | 4 stack (Red, yellow, green, blue)            |
|                      | 5   | 5 stack (Red, yellow, green, blue, white)     |
| Bracket selection    |   | None (L type bracket standard)                |
|                      | S   | Plastic bracket installation (ST-011)         |
|                      | M   | MP-60 Plastic bracket installation (Bar type) |

## Characteristic

- Ø55 cylinder type
- Applied the socket type LED lamp
- 1 ~ 5 stacking structure and 5 kinds of colors
- Continuous light only, continuous light, flashing light, Buzzer (selected by the external signal)

## Specification

### ■ HY-TN (Bulb type)

| Model                | HY-TN <input type="checkbox"/>                    | HY-TWN <input type="checkbox"/>  | HY-TBN <input type="checkbox"/> | HY-TWBN <input type="checkbox"/>         |
|----------------------|---|----------------------------------|---------------------------------|--|
| Function             | Continuous light only                             | Continuous light, flashing light | Continuous light, Buzzer        | Continuous light, flashing light, Buzzer |
| Diameter             | Ø55   |                                  |                                 |  |
| Number of stacks     | 1 ~ 5 stack                                       |                                  |                                 |  |
| Flashing time        | -   | 60 times/1min                    | -                               | 60 times/1min                            |
| Buzzer melody type   | -   |                                  | Single melody, beeping          |  |
| Buzzer melody volume | -   |                                  | 80 dB (1 m distance)            |  |
| Power supply voltage | 12 V d.c, 24 V d.c, 110 V a.c, 220 V a.c 50/60 Hz |                                  |                                 |  |
| Light source         | Incandescent lamp (BA 15S)                        |                                  |                                 |  |
| Ambient Temperature  | -5 ~ 50 °C  |                                  |                                 |  |
| Ambient Humidity     | 35 ~ 85% R.H.                                     |                                  |                                 |  |
| Radiating angle      | 360,  |                                  |                                 |  |
| Lens material        | SAN   |                                  |                                 |  |
| Pipe material        | Aluminum  |                                  |                                 |  |
| Lens color           | Red, Yellow, Green, Blue, White                   |                                  |                                 |  |
| Degree of protection | IPX0 (In door)                                    |                                  |                                 |  |
| Certification        | CE  |                                  |                                 |  |
| IK code              | IK06  |                                  |                                 |  |

### ■ HY-TLN (LED type)

| Model                | HY-TLN <input type="checkbox"/>                   | HY-TWLN <input type="checkbox"/> | HY-TBLN <input type="checkbox"/> | HY-TWBLN <input type="checkbox"/>        |
|----------------------|---|----------------------------------|----------------------------------|--|
| Function             | Continuous light only                             | Continuous light, flashing light | Continuous light, Buzzer         | Continuous light, flashing light, Buzzer |
| Diameter             | Ø55   |                                  |                                  |  |
| Number of stacks     | 1 ~ 5 stack                                       |                                  |                                  |  |
| Flashing time        | -   | 60 times/1min                    | -                                | 60 times/1min                            |
| Buzzer melody type   | -   |                                  | Single melody, beeping           |  |
| Buzzer melody volume | -   |                                  | 80 dB (1 m distance)             |  |
| Power supply voltage | 12 V d.c, 24 V d.c, 110 V a.c, 220 V a.c 50/60 Hz |                                  |                                  |  |
| Light source         | LED (BA 15S)                                      |                                  |                                  |  |
| Ambient Temperature  | -5 ~ 50 °C  |                                  |                                  |  |
| Ambient Humidity     | 35 ~ 85% R.H.                                     |                                  |                                  |  |
| Radiating angle      | 360,  |                                  |                                  |  |
| Lens material        | SAN   |                                  |                                  |  |
| Pipe material        | Aluminum  |                                  |                                  |  |
| Lens color           | Red, Yellow, Green, Blue, White                   |                                  |                                  |  |
| Degree of protection | IPX0 (In door)                                    |                                  |                                  |  |
| Certification        | CE  |                                  |                                  |  |
| IK code              | IK06  |                                  |                                  |  |

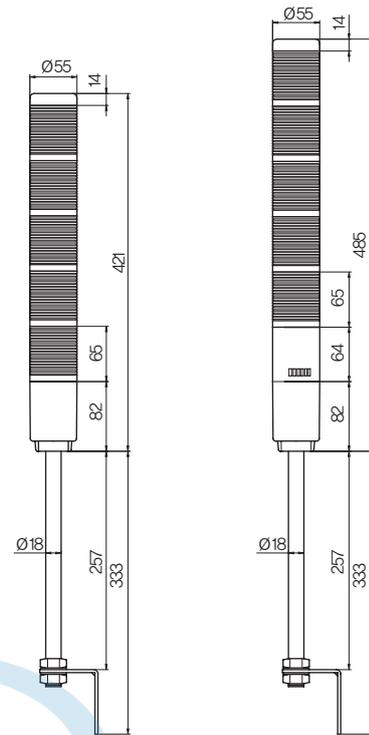
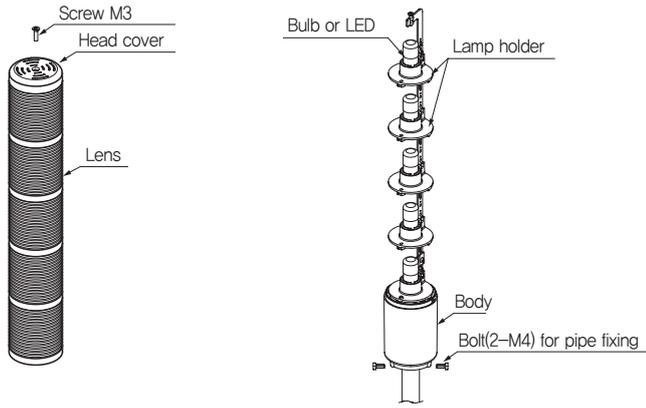
## Lamp specification

### ■ Bulb (BA 15S)

| Power supply voltage | 12 V d.c | 24 V d.c | 110 V a.c | 220 V a.c |        |
|----------------------|----------|----------|-----------|-----------|--------|
| Lamp capacity        | 5 W      |          |           |           |        |
| Light source type    | Bulb     |          |           |           |        |
| Current consumption  | 1stack   | 0.42 A   | 0.21 A    | 0.07 A    | 0.04 A |
|                      | 2stack   | 0.84 A   | 0.42 A    | 0.14 A    | 0.08 A |
|                      | 3stack   | 1.26 A   | 0.63 A    | 0.20 A    | 0.11 A |
|                      | 4stack   | 1.68 A   | 0.84 A    | 0.27 A    | 0.14 A |
|                      | 5stack   | 2.10 A   | 1.05 A    | 0.33 A    | 0.17 A |

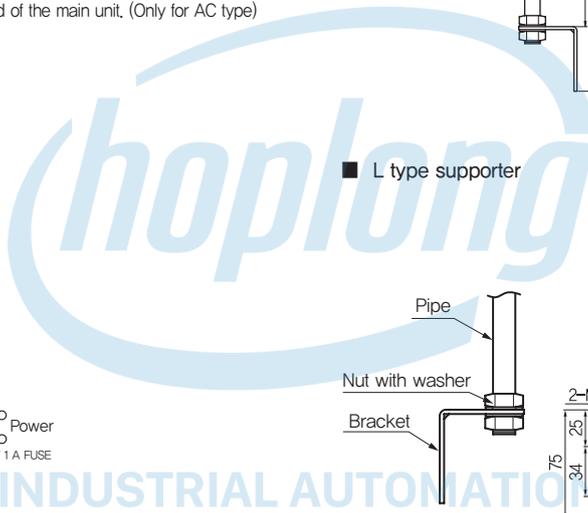
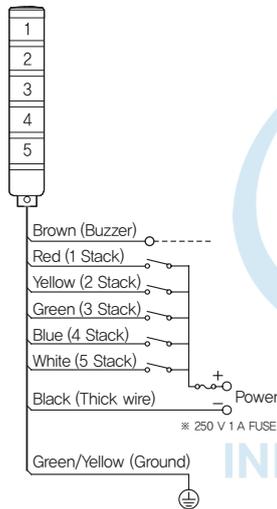
### ■ LED (BA 15S)

| Power supply voltage | 12 V d.c | 24 V d.c | 110 V a.c | 220 V a.c |       |
|----------------------|----------|----------|-----------|-----------|-------|
| Lamp capacity        | 1.2 VA   | 1.2 VA   | 2 VA      | 4 VA      |       |
| Light source type    | LED      |          |           |           |       |
| Current consumption  | 1stack   | 96 mA    | 48 mA     | 18 mA     | 18 mA |
|                      | 2stack   | 192 mA   | 96 mA     | 36 mA     | 36 mA |
|                      | 3stack   | 288 mA   | 144 mA    | 54 mA     | 54 mA |
|                      | 4stack   | 384 mA   | 192 mA    | 72 mA     | 72 mA |
|                      | 5stack   | 480 mA   | 240 mA    | 90 mA     | 90 mA |

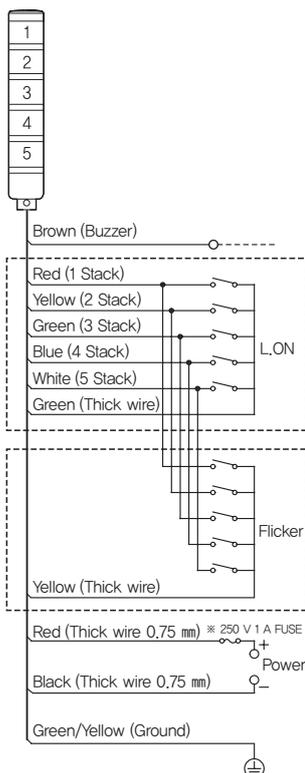
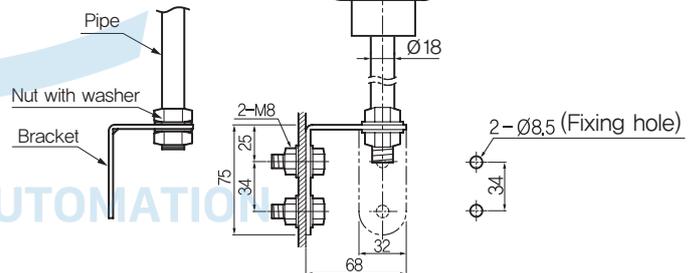


## Connection diagram

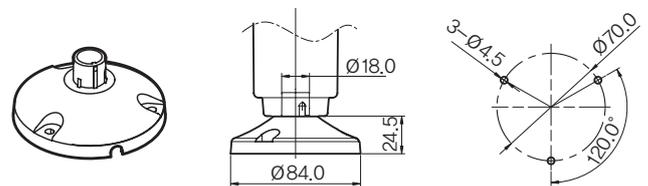
- When controlling more than 2 sign towers at the same time, please use independent contact.
- With the 110 V, 220 V a.c specification of TWN type and TWBN type, please do not connect the yellow and green wire to the power line (red and black)
- When operating the Buzzer, please connect the wire (for buzzer) to the L.ON wire or flashing wire. Able to select as continuous melody and single melody.
- When operating the buzzer and indicator at the same time, please connect the brown wire of buzzer to the signal input wire of indicator which is indicator that users want to operate the buzzer. Single melody when light is flashing and continuous melody when light is continuously ON.
- With the 12 V d.c and 24 V d.c specifications, thick wire is 0.75 mm and black wire is (-).
- Please connect the ground wire (GRN/YEL) to the ground of the main unit. (Only for AC type)



■ L type supporter



■ ST-011 Plastic bracket installation



■ MP-60 Plastic bracket installation (Bar type)

