



## Products description and application

The multi-layer tower signal light has a cylindrical appearance and is composed of multiple module luminous bodies and sound emitting bodies. It has the characteristics of high structural strength, good protection performance, and strong anti-interference ability. It can be applied to complex industrial sites such as lifting equipment, subway tunnels, highways and bridges, and workshop assembly lines. Used for equipment status prompt or safety precautionary warning.

## Features

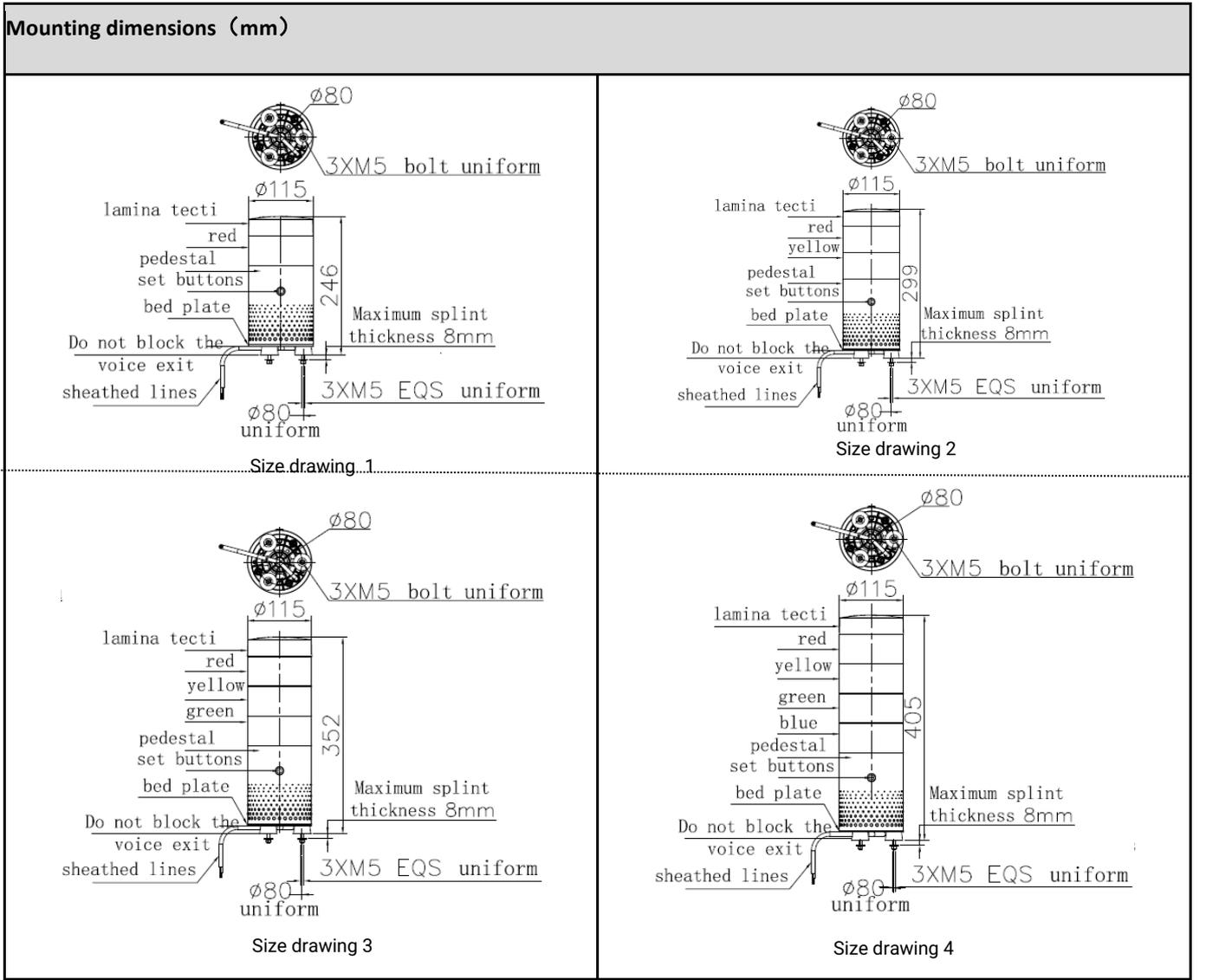


- The shell is injection molded with special composite materials to improve the weather resistance and corrosion resistance of the product under complex working conditions and enhance the ability to resist external mechanical shocks.
- The main body of the product is cylindrical, which has the advantages of stable structure, light weight, strong vibration resistance, and strong sealing;
- Independent appearance design patent, beautiful appearance, modular assembly design, can expand the combination function according to different needs, and meet a variety of working conditions;
- Wide-range voltage input, professional electromagnetic interference suppression circuit, integrated industrial-grade control chip to escort products working in harsh industrial environments;
- Follow the EU R65 vehicle warning light standard design, and the internal design has an integrated optical processor, which can improve the light utilization rate through light distribution, enhance the visual effect, and reduce light pollution.
- High-power, high-brightness lamp beads with special technology are used to increase the luminous intensity of the colored light source, thereby reducing energy consumption and improving efficiency.
- The sound part uses high-sensitivity speakers as the main body, and a professional acoustic treatment resonance cavity is designed inside, which improves the alarm sound through the physical environment, and has the characteristics of low distortion, high conversion efficiency, and low heat generation.
- The product is sealed with double-layer high and low temperature resistant sealing devices, and the process is stable and reliable, so that the product can work stably in high temperature and high humidity environments for a long time.
- The alarm tone, alarm volume, and warning mode of this product can be set through the function setting buttons.
- Higher than the design requirements of various electrical and environmental standards for industrial electronic products.

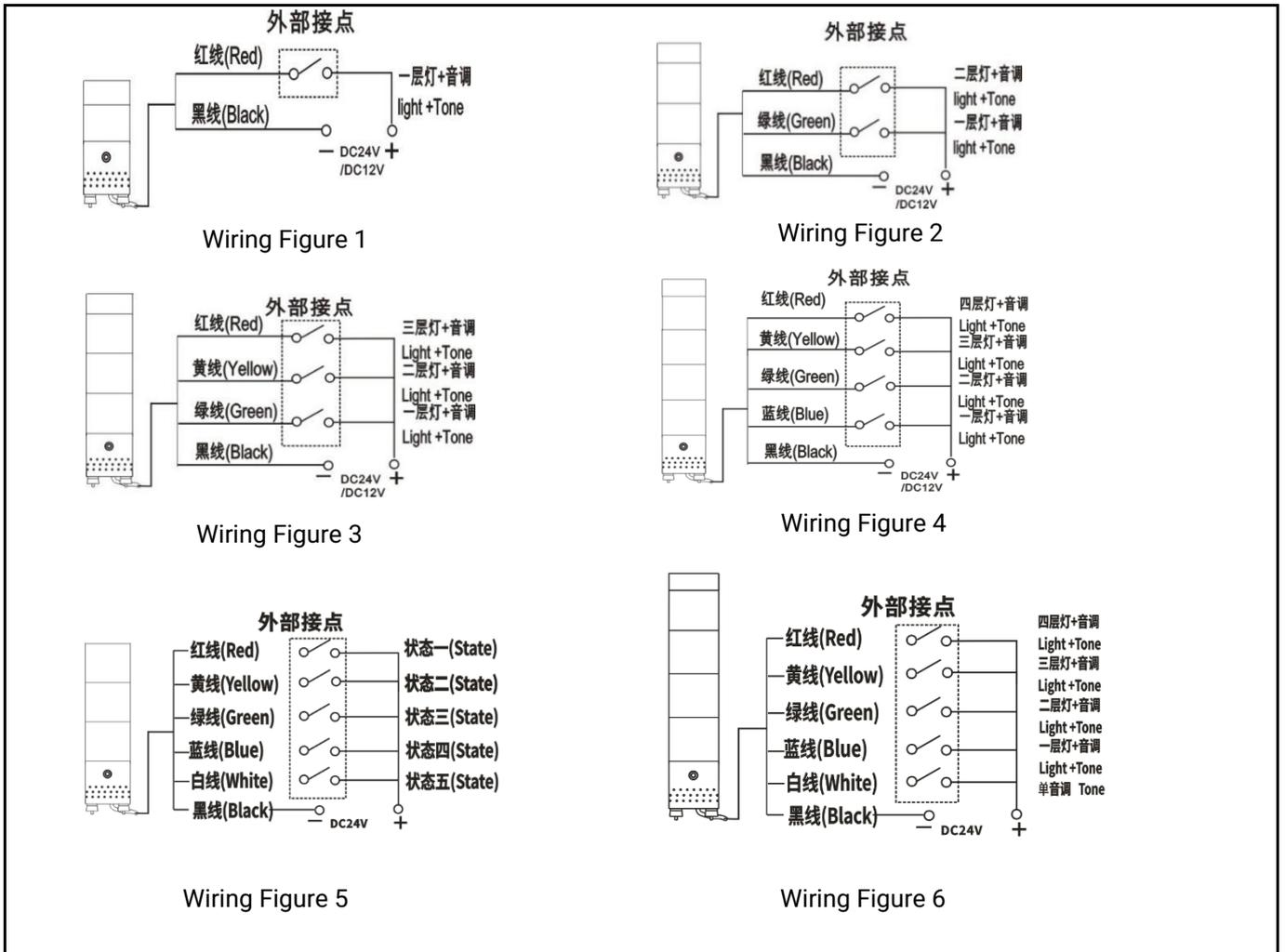
## General Specifications



Electrical parameters		Structure parameters	
Voltage	DC12V/ DC24V	Housing material	PC/ABS
Power	10W	Len material	PC
Tone	A/B/D/E/Y (Optional)	Colour	Red ● Amber ● Green ● Blue ●
Sound level	0~110dB (adjustable)	IP rete	IP65
Warning type	Acousto-optic synchronization	Working temperature	Ta-30 °C~+70 °C
Flashing type	Strobe / Flashing / Simulated rotation / steady burning (Optional)	Humidity	10%~95%
Wiring	Sheath lead wire	Installation	Bolt flat installation
		1 Layer weight	1.56kg
		2 Layer weight	1.78kg
		3 Layer weight	2kg
		4 Layer weight	2.22kg



**Wiring diagram**



## Installation method

- Check whether the power supply used matches the rated working voltage of the multilayer signal.
- The alarm reserves 3 M5 screws, which are fixed to the mounting surface with 3 M5 nuts. The mounting surface should be flat and have sufficient mechanical strength.

## Parts description

- Top cover: used for waterproof and dustproof and structural locking;
- light: optional colors red, amber, green, blue;
- Base: main structure;
- Base cover: used for speaker sound and structural locking;
- Sheath line: one meter and two meters optional;

## Set button description

- The main body contains setting buttons and indicator lights, the operation method is as follows
  - ◆ Volume adjustment: turn on the corresponding signal light lead wire and press the button repeatedly, the volume will cycle from 0 to 4 levels, adjust to the required volume, and it will be automatically saved (the factory default is the largest);
  - ◆ Tone selection setting: the corresponding signal light lead wire is connected to the power supply, press and hold the setting button for about 5 seconds, the indicator light turns to be on, release the button. At this time, enter the tone selection mode, click the set button, the tone will switch in a loop until the desired tone is selected, press and hold the button for about 5 seconds to save, and the indicator light is off to release the button. Indicates that the tone adjustment mode has been exited;
  - ◆ Tone switching: Tone switching will cycle in A/B/D/E/Y tones;
  - ◆ Warning mode setting: The corresponding signal light lead wire is connected to the power supply, and long press for about 8S until the button indicator flashes to enter the warning mode setting;
  - ◆ Alert mode switching: After entering the alert mode setting (the indicator light flashes), press the button at



this time, and the alert mode will switch cyclically among the four alert modes of constant light, rotating, flashing, and flashing, and select the desired alert mode for a long time. Press the setting button for about 8S to save, the indicator light changes from flashing to off. The warning mode is set.

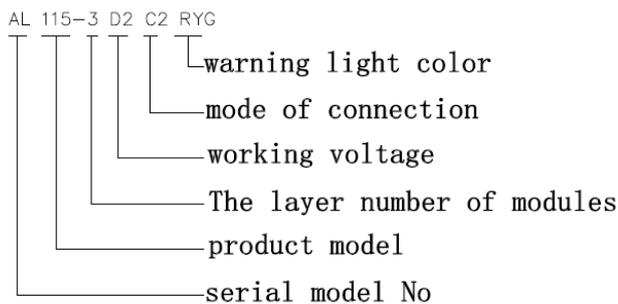
**Note:** All settings of this product have memory function, no need to reset after power-on

**Initial state of the factory:** The default four layers of factory warning tone are A, D, silent, and Y (from top to bottom); the third layer is A, D, silent (from top to bottom). The two layers are in D tone, silent (from top to bottom); the single layer is in D tone. Warning mode: the factory state is rotating.

## Precautions

1. The product is made of PC material components, and cannot be in direct or indirect contact with industrial alcohol, banana water, isopropanol, carbon tetrachloride, cyclohexanone and other organic solvents, otherwise it will be corroded and cracked.
2. Do not install this product with the bell mouth facing upwards to avoid water accumulation.
3. When adjusting the product function, please be careful not to touch the power terminal to avoid electric shock.
4. Please read the manual carefully before use. If you have any questions, please contact our company.

## Model naming rules



Number of layers		Voltage		Wiring		Color	
1	1layer	D1	DC12V	C2	1meter	R	Red
2	2layer	D2	DC24V	C3	2meter	Y	Amber
3	3layer					G	Green
4	4layer					B	Blue

HOW to Order							
PN	Model	Number of layers	Voltage	Wiring	Signal color	Size drawing number	Wiring diagram number
1000480-001	AL115-3D2C2RYG	3	DC24V	1meter	red/Amber/green (From top to bottom)	Size drawing3	Wiring diagram3
1000480-002	AL115-2D2C2RY	2	DC24V	1meter	red/Amber (From top to bottom)	Size drawing2	Wiring diagram2
1000480-003	AL115-2D2C3RG	2	DC24V	2meter	red/green (From top to bottom)	Size drawing2	Wiring diagram2
1000480-004	AL115-2D2C3RYG5	3	DC24V	2meter	red/Amber/green (From top to bottom)	Size drawing3	Wiring diagram5
1000480-005	AL115-4D2C2RYGB	4	DC24V	1meter	red/Amber/green/blue (From top to bottom)	Size drawing4	Wiring diagram4



1000480-006	AL115-4D1C2RYGB	4	DC12V	1meter	red/Amber/green/blue (From top to bottom)	Size drawing4	Wiring diagram4
1000480-007	AL115-1D1C2R	1	DC24V	1meter	red	Size drawing1	Wiring diagram1
1000480-008	AL115-1D1C2Y	1	DC24V	1meter	Amber	Size drawing1	Wiring diagram1
1000480-009	AL115-1D1C2G	1	DC12V	2meter	green	Size drawing1	Wiring diagram1
1000480-010	AL115-1D1C2B	1	DC12V	2meter	blue	Size drawing1	Wiring diagram1
1000480-011	AL115-1D2C2R	1	DC12V	2meter	green	Size drawing1	Wiring diagram1
1000480-012	AL115-1D2C2Y	1	DC12V	2meter	blue	Size drawing1	Wiring diagram1
1000480-013	AL115-1D2C2G	1	DC24V	2meter	green	Size drawing1	Wiring diagram1
1000480-014	AL115-1D2C2B	1	DC24V	2meter	blue	Size drawing1	Wiring diagram1
1000480-015	AL115-1D1C3R	1	DC24V	2meter	red	Size drawing1	Wiring diagram1
1000480-016	AL115-1D1C3Y	1	DC24V	2meter	Amber	Size drawing1	Wiring diagram1
<b>HOW to Order</b>							
PN	Model	Number of layers	Voltage	Wiring	Signal color	Size drawing number	Wiring diagram number
1000480-017	AL115-1D1C3G	1	DC12V	2meter	green	Size drawing2	Wiring diagram2
1000480-018	AL115-1D1C3B	1	DC12V	2meter	blue	Size drawing2	Wiring diagram2
1000480-019	AL115-1D2C3R	1	DC24V	2meter	red	Size drawing2	Wiring diagram2
1000480-020	AL115-1D2C3Y	1	DC24V	2meter	Amber	Size drawing2	Wiring diagram2
1000480-021	AL115-1D2C3G	1	DC24V	2meter	green	Size drawing2	Wiring diagram2
1000480-022	AL115-1D2C3B	1	DC24V	2meter	blue	Size drawing2	Wiring diagram2
1000480-023	AL115-2D1C2RY	2	DC12V	1meter	red/Amber (From top to bottom)	Size drawing2	Wiring diagram2
1000480-024	AL115-2D1C2YG	2	DC12V	1meter	Amber/green (From top to bottom)	Size drawing2	Wiring diagram2
1000480-025	AL115-2D1C2RG	2	DC12V	1meter	red/green (From top to bottom)	Size drawing2	Wiring diagram2
1000480-026	AL115-2D1C2RB	2	DC12V	1meter	red/blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-027	AL115-2D1C2YB	2	DC12V	1meter	Amber/blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-028	AL115-2D1C2GB	2	DC12V	1meter	Green/blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-029	AL115-2D2C2YG	2	DC24V	1meter	Amber/green (From top to bottom)	Size drawing2	Wiring diagram2



1000480-030	AL115-2D2C2RG	2	DC24V	1meter	red /green (From top to bottom)	Size drawing2	Wiring diagram2
1000480-031	AL115-2D2C2RB	2	DC24V	1meter	red/ blue (From top to bottom)	Size drawing2	Wiring diagram2

HOW to Order							
PN	Model	Number of layers	Voltage	Wiring	Signal color	Size drawing number	Wiring diagram number
1000480-032	AL115-2D2C2YB	2	DC24V	2meter	Amber /blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-033	AL115-2D2C2GB	2	DC24V	2meter	green /blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-034	AL115-2D1C3RY	2	DC12V	2meter	red/Amber (From top to bottom)	Size drawing2	Wiring diagram2
1000480-035	AL115-2D1C3YG	2	DC12V	2meter	Amber/green (From top to bottom)	Size drawing2	Wiring diagram2
1000480-036	AL115-2D1C3RG	2	DC12V	2meter	red /green (From top to bottom)	Size drawing2	Wiring diagram2
1000480-037	AL115-2D1C3RB	2	DC12V	2meter	red/blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-038	AL115-2D1C3YB	2	DC12V	2meter	Amber /blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-039	AL115-2D1C3GB	2	DC12V	2meter	green /blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-040	AL115-2D2C3RY	2	DC24V	2meter	red/Amber (From top to bottom)	Size drawing2	Wiring diagram2
1000480-041	AL115-2D2C3YG	2	DC24V	1meter	Amber/green (From top to bottom)	Size drawing2	Wiring diagram2
1000480-042	AL115-2D2C3RB	2	DC24V	1meter	red/blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-043	AL115-2D202YB	2	DC12V	2meter	Amber/ blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-044	AL115-2D2C3GB	2	DC24V	2meter	green/blue (From top to bottom)	Size drawing2	Wiring diagram2
1000480-045	AL115-3D1C2RYG	4	DC12V	1meter	red/Amber/green (From top to bottom)	Size drawing3	Wiring diagram3
1000480-046	AL115-3D1C3RYG	4	DC12V	2meter	red/Amber/green (From top to bottom)	Size drawing3	Wiring diagram3
1000480-047	AL115-3D2C3RYG	3	DC24V	2meter	red/Amber/green (From top to bottom)	Size drawing3	Wiring diagram3

# AL115 Tower Signal



1000480-048	AL115-4D2C3RYGB	4	DC24V	2meter	red/Amber/green/blue (From top to bottom)	Size drawing4	Wiring diagram4
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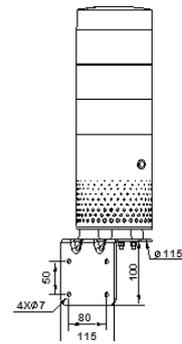
HOW to Order							
PN	Model	Number of layers	Voltage	Wiring	Signal color	Size drawing number	Wiring diagram number
1000480-049	AL115-4D1C3RYGB	4	DC12V	2meter	red/Amber/green/blue (From top to bottom)	Size drawing4	Wiring diagram4

## Mounting brackets:

Installation size



PJ115-01 Wall mounting bracket



Size drawing 5