

AL120 Audible Visual Alarm



Products description and application

Special design for all kinds of engineering machinery (Mobile crane, crawler crane, overhead traveling crane etc.), Port machinery (harbour cranes, gantry crane, etc)

Material conveyor equipment such as belt conveyor

Features

- The products are sealed with structural glue, to ensure the good waterproof and dustproof of the product.
- Super bright RGB, and the life is more than 100,000hrs.
- Lamp housing employs PC, providing good intensity, thermal stability and good finishing surface.
- Special integrated core, providing strong electromagnetic anti-interference capability.
- Industrial microchip design, integrated with a variety of tones, can choose the corresponding tone according to different venues, which can expand the application of the product.

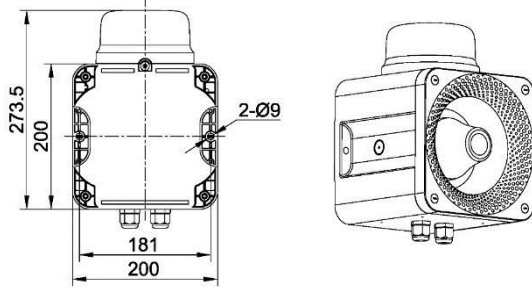
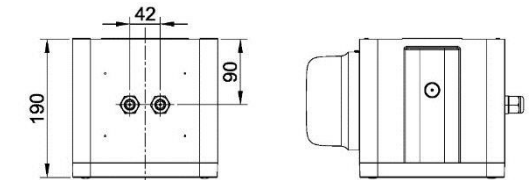
Specifications

Electrical		Mechanical	
Voltage	DC18 ~ 48V/AC100 ~ 240V	Body material	PC/ABS
Frequency	50Hz/60Hz	Cover material	PC
Power	<45W	Color	Red●
Tone	Memory card customization	IP rate	IEC60529 IP65
Single/doublevoice	Memory card customization	Ambient temperature	Ta-30℃ ~ +55℃
Alarm mode	audible and visible separately	Humidity	10% ~ 95%RH
Sound level	>120dB(max)	Mounting type	Wall mounting / Wall mounting (with bracket) / Floor mounting
Light source	LED	Wring type	Cable gland M20(φ6-12.5)
Color	RGB	Weight	3Kg
Lifespan	100,000h		

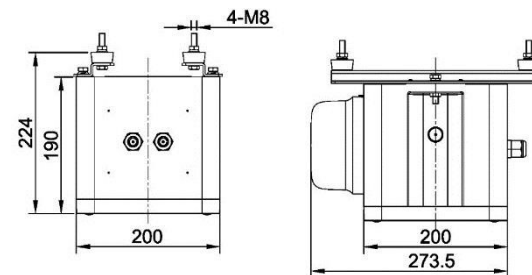
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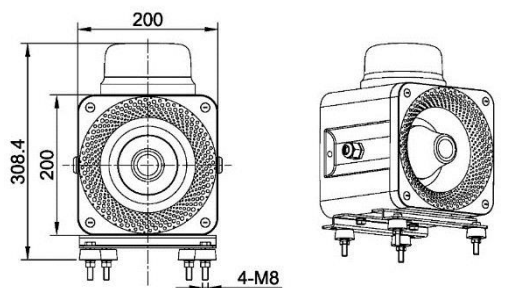
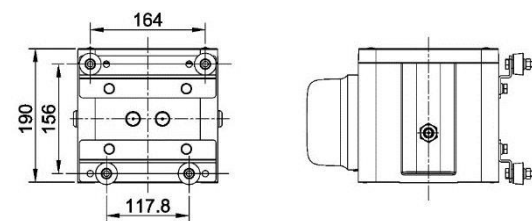
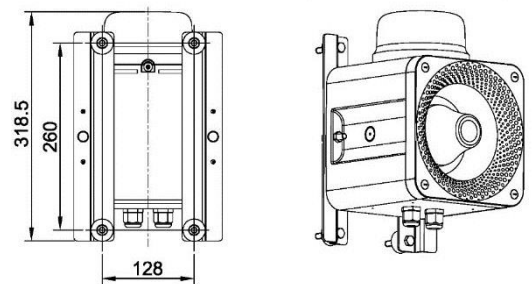
Dimensions (unit : mm)



Wall mounting



Wall mounting (with bracket)

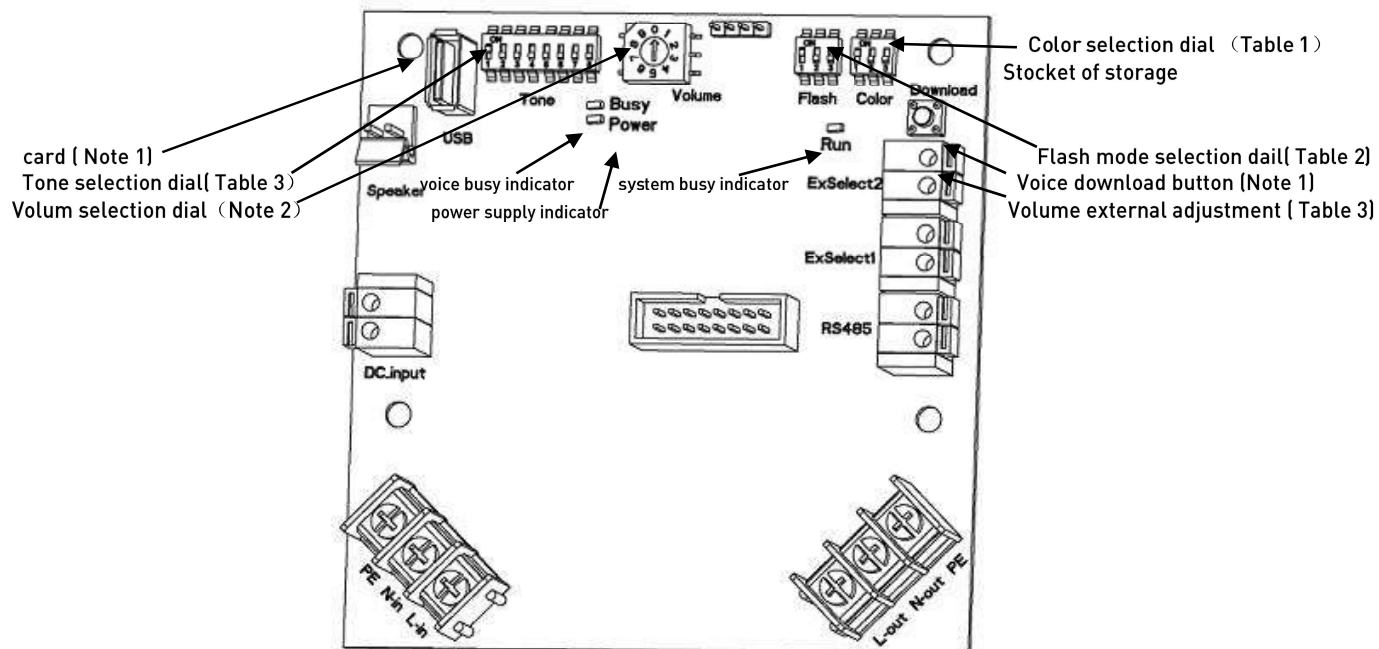


Floor mounting



Wiring diagram

Warning light control and indication



Color selection—Table 1

Dial code	Dialing method
<p>Dial code with color mark</p>	Turn-off
<p>Dial code with color mark</p>	Red
<p>Dial code with color mark</p>	Blue
<p>Dial code with color mark</p>	Red wine
<p>Dial code with color mark</p>	Green
<p>Dial code with color mark</p>	Yellow
<p>Dial code with color mark</p>	Cyan
<p>Dial code with color mark</p>	White


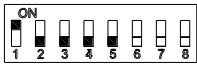

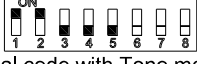




Flash selection—Table 2

Dial code	Dialing method
 Dial code with Flash mark	Flash mode 1: Steady
 Dial code with Flash mark	Flash mode: Continuous flashing
 Dial code with Flash mark	Flash mode: Interval flashing
 Dial code with Flash mark	Flash mode: Rotating

Note: Dial 3 is used for extended reservation, and regular products should not dial Dial 3

Alarm tone/voice adjustment—Table 3

	ExSelect1 (NC) ExSelect2 (NC)	ExSelect1 (24V) ExSelect2 (NC)	ExSelect1 (NC) ExSelect2 (24V)	ExSelect1 (24V) ExSelect2 (24V)
 Dial code with Tone mark (factory default)	Tone/Voice 1	Tone/Voice 2	Tone/Voice 3	Mute
 Dial code with Tone mark	Tone/Voice 2	Tone/Voice 3	Tone/Voice 4	Mute
 Dial code with Tone mark	Tone/Voice 3	Tone/Voice 4	Tone/Voice 5	Mute
 Dial code with Tone mark	Tone/Voice 4	Tone/Voice 5	Tone/Voice 6	Mute
 Dial code with Tone mark	Tone/Voice 5	Tone/Voice 6	Tone/Voice 7	Mute
 Dial code with Tone mark	Tone/Voice 6	Tone/Voice 7	Tone/Voice 8	Mute
And so on, a total of 32 kinds of factory settings (6,7,8 three-way dialing code is reserved for expansion)	Analogy	Analogy	Analogy	Mute

Note: Voice download method, this function is used by customers who need to modify the voice temporarily. Put the required voice into the storage card (the order of copy to the storage card is the order of voice adjustment in the table). When confirming that the chip is ready to be completed (BUSY light is off), insert the storage card into the USB socket marked by the red circle, long press The button DOWNLOAD marked on the motherboard until the run light is always on, and then release the button. At this point, the BUSY light starts to flash, indicating that the storage card is being copied into the chip. Until BUSY is always on, COPY is completed. Then restart or adjust to change the tone /voice, can work normally. If the copy-in is unsuccessful, check whether the storage card is faulty (the run light flashes when the copy is unsuccessful)

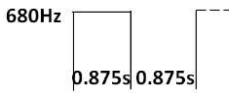
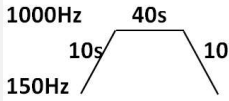
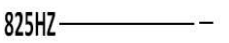




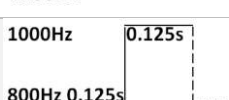
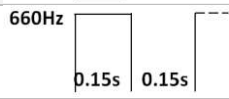
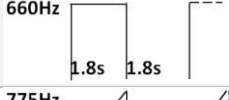
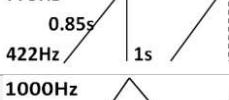




Factory tone selection table —Table 3 (Annex 1)

Tone1	Sound A 调: Alternate tone British BS58391-1 (fire alarm tone)	
Tone 2	Sound B: Fire alarm tone	
Tone 3	Sound E: Fire alarm tone	
Tone 4	Sound D: Intermittent tone PFEER (general alarm) British BS5839-1 (alternate alarm)	
Tone 5	Sound Y: Continuous tone	
Tone 6	Electric flute: Continuous tone	
Tone 7	Engineering sound: Intermittent tone	
Tone 8	7 short and 1 long: Intermittent tone	
Tone 9	doorbell: Alternate tone	
Tone 10	Ship fire alarm: Fire alarm tone	
Tone 11	Telephone bell: Alternate tone	
Tone 12	European alarm: Fire alarm tone	
Tone 13	Serrated DIN Tone: 33404-3 Germany (emergency signal) PFEER PTAP/EN54-3	
Tone 14	Slow sound: Fire alarm sound UK BS5839-1	
Tone 15	Fire alarm tone: (medium) UK BS5839-1	
Tone 16	Sound L: Fire alarm tone	
Tone 17	Slow sound: Netherlands NEN 2575 (Evacuation Alarm Sound) / EN54-3	
Tone 18	Alternate tone: France NFS 32-001 (fire alarm)	
Tone 19	Alternate tone: British BS5839-1 (fire alarm, railway fork)	

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Tone 20	Intermittent tone: German industrial alarm tone	680Hz 
Tone 21	Whistle: German industrial alarm tone	1000Hz 
Tone 22	Continuous tone : EN54-3	825HZ 
Tone 23	Intermittent tone: Australia AS2220, AS1610, AS1670	420Hz 
Tone 24	Intermittent tone: Germany KTA3901 (Evacuation Alarm Sound)	500Hz 
Tone 25	Fire alarm tone: Finland (general alarm tone)	1500Hz 
Tone 26	Continuous tone: PFEER gas alarm	1200HZ 
Tone 27	Alternate tone: British BS5839-1 (fire alarm, increased urgency - railway intersection)	1000Hz 
Tone 28	Intermittent tone: Sweden SS031711 (emergency signal)	660Hz 
Tone 29	Intermittent tone: Sweden SS031711 (air attack warning)	660Hz 
Tone 30	Slow sound: NFPA US fire evacuation alarm tone	775Hz 
Tone 31	Fire alarm tone: (fast) UK BS5839-1	1000Hz 
Tone 32	Continuous tone: Germany KTS3901 (danger release signal)	500HZ 



Factory voice selection table 3 (Annex 2)

Voice 1	大车行走, 请注意避让
Voice 2	有人进入禁区, 请注意
Voice 3	您已进入禁区, 请立即离开
Voice 4	天车运行中, 请注意安全
Voice 5	您已进入作业区域, 请注意安全
Voice 6	限制区域, 禁止进入
Voice 7	皮带启动, 请注意安全
Voice 8	请注意大风报警, 停止作业
Voice 9	上下大机, 踏稳扶牢, 请远离转动部位
Voice 10	正在装卸, 严禁动车
Voice 11	左转弯
Voice 12	请注意, 车辆转弯
Voice 13	请注意, 钢包台车运行
Voice 14	Truck walking, Caution please
Voice 15	特殊作业, 注意避让
Voice 16	向前走

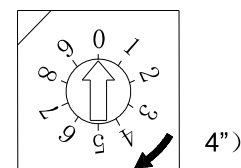
Note 2: Volume adjustment method

The volume adjustment knob is as shown in the figure.

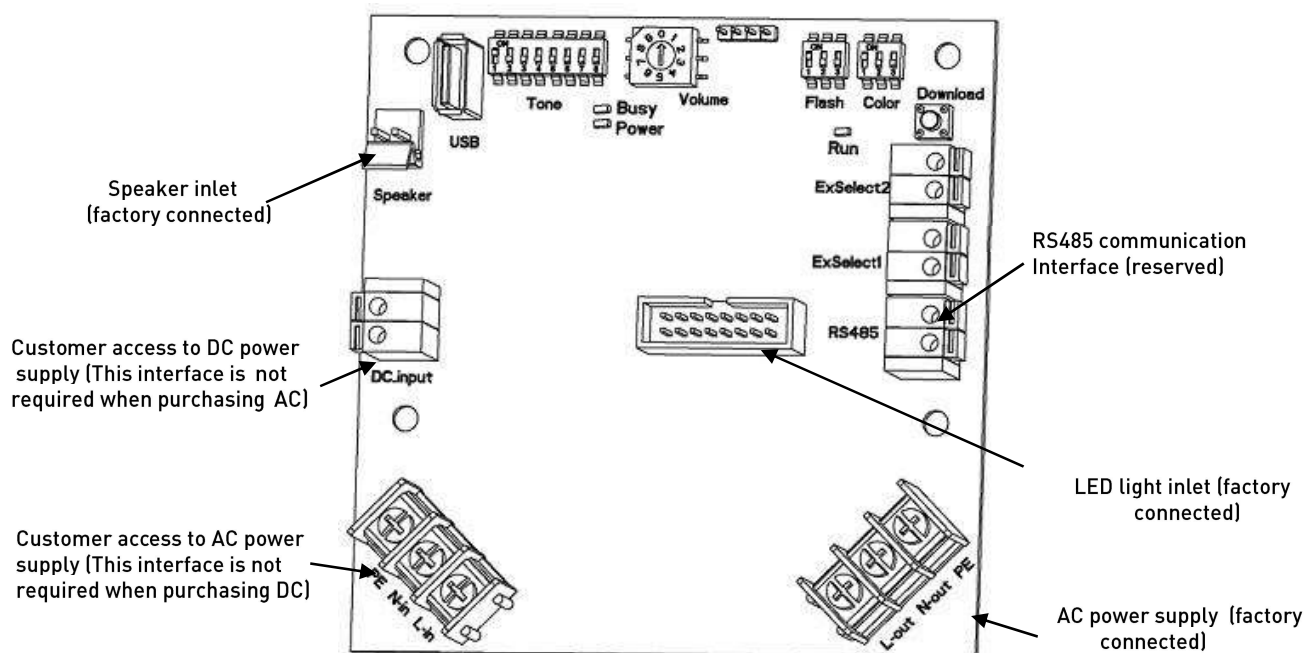
Use a flat-blade screwdriver to turn the knob clockwise to increase the volume.

The volume of "Position 0" is the smallest, and the volume of

"Position 9" is the maximum. A total of 10 volume adjustment. (factory default "Position

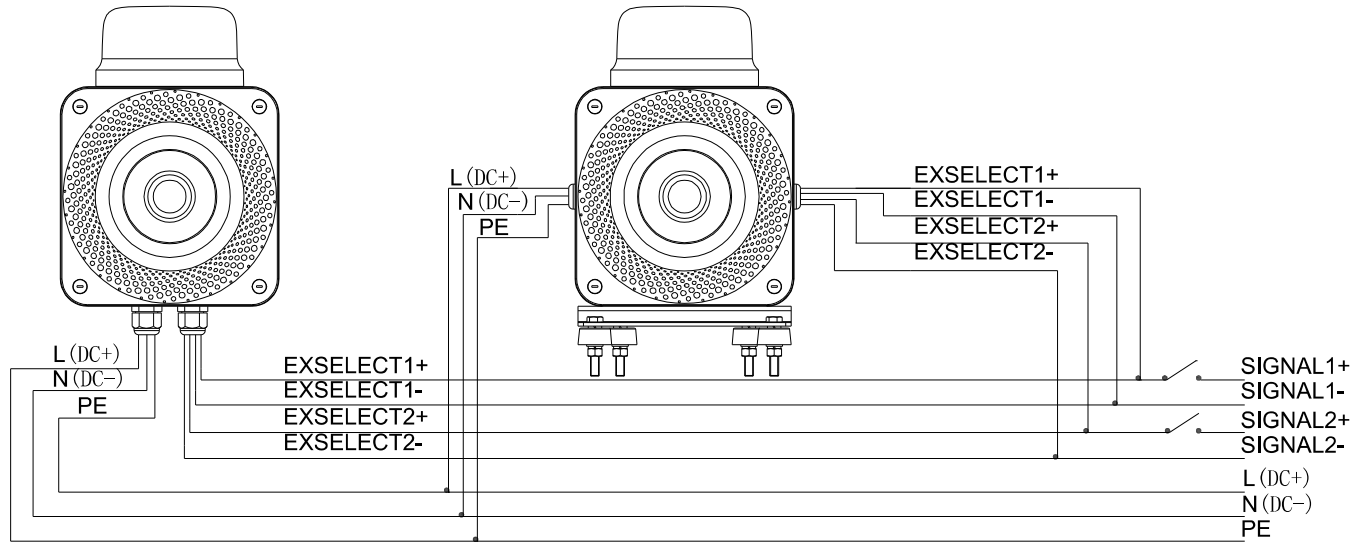


Wiring diagram





Wiring diagram :



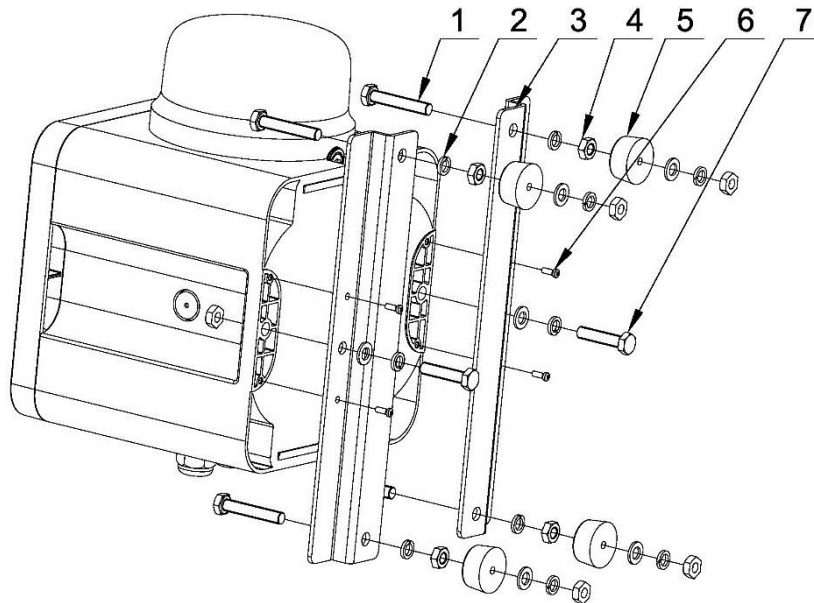
Wall mounting/ Wall mounting (with bracket)

Floor mounting

Installation and operation

- The alarm flare is mounted horizontally and the mounting surface should be flat and of sufficient mechanical strength.
- Wall mounting: Use 4 M8 bolts, washers, spring washers and nuts to fix the mounting surface.
- Wall mounting (with bracket): Take out the two brackets in the box, fix the bracket to the alarm as shown below, and then fix the alarm to the mounting surface.
- Floor installation: Remove the 4 nuts, spring washers and flat washers at the red rubber feet, fix the alarm to the mounting surface, and fix the alarm with the removed fasteners.
- Unscrew the 4 screws that secure the top cover and remove the top cover to expose the terminal block.
- Connect the power control cable from the M20 stuffing box and connect the power control cable correctly according to the wiring diagram.
- Check that the power supply and the alarm's rated voltage match, and check that the power cord is connected properly before power on.
- Adjust the DIP switch to select different tones/voices. For the tone selection, refer to "Tone/Voice Selection Table".
- Insert the 4 silicone plugs into the screw slots on the top cover

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Wall mounting (with bracket)

1. Bolt M8X45 2. Spring pad Φ8 3. Bracket 4. Nut M8 5. Red rubber feet 6. Screw ST4.2X9.5 7. Bolt M8X35

Notice:

1. The product adopts PC material parts and cannot be directly or indirectly contacted with organic solvents such as industrial alcohol, banana water, isopropanol, carbon tetrachloride or cyclohexanone, otherwise it will be cracked by corrosion.
2. Do not install the bell mouth up to avoid water accumulation.
3. Please be careful not to touch the power terminal to avoid electric shock when adjust this product.
4. Please read the instructions carefully, and if you have any questions, please contact us.

How to Order

P/N	Model	Voltage	Factory default tone/voice	Function	Mount
1000423-001	AL120	AC100V~240V	Tone	download voice from storage card	Wall mounting
1000423-002	AL120	DC18V~48V	Tone	download voice from storage card	Floor mounting (with signal cable)
1000423-003	AL120	AC100V~240V	Tone	download voice from storage card	Floor mounting
1000423-004	AL120	AC100V~240V	Tone	download voice from storage card	Wall mounting (with bracket)
1000423-005	AL120	DC18V~48V	Tone	download voice from storage card	Wall mounting
1000423-006	AL120	DC18V~48V	Tone	download voice from storage card	Floor mounting
1000423-007	AL120	DC18V~48V	Tone	download voice from storage card	Wall mounting (with bracket)

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