

Proximity Warning Alert System

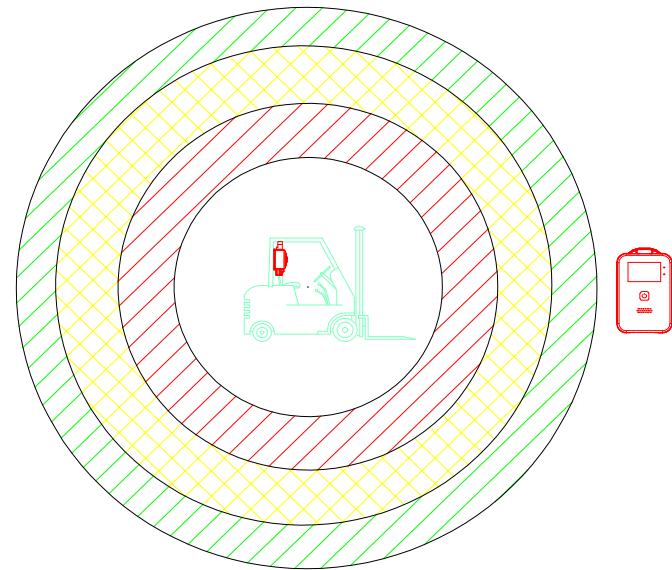
Owner's Guide

WARNING

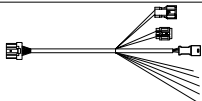
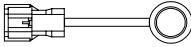
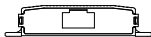
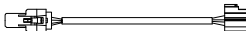
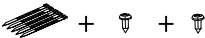
To help preventing injuries, never use the Proximity Warning Alert System as a replacement for checking the surrounding pedestrians, cyclists and vehicles. The Proximity Warning Alert System is not a replacement for careful driving.

1. System overview

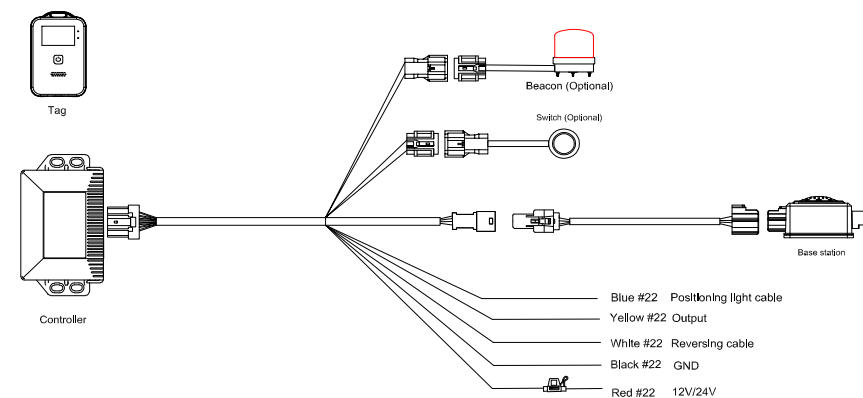
Proximity Warning Alert System means a system to detect and inform the driver of the presence of tags in the close-proximity of the vehicle, if deemed necessary based on manufacturer strategy, warn the driver of a potential collision.



2.Kit Contents

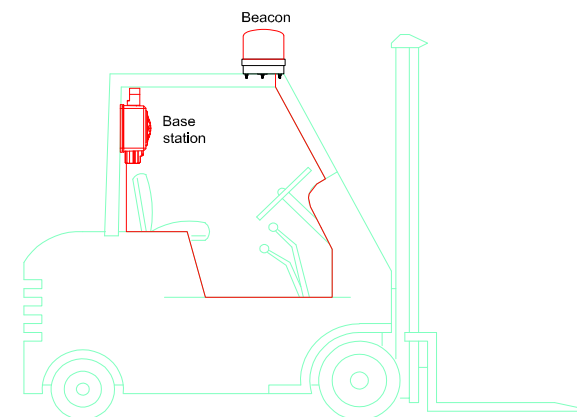
No.	Item	QTY.	Image
1	Base station	1	
2	Tag	Any	
3	Main Harness	1	
4	Beacon	Optional	
5	Switch	Optional	
6	Controller	1	
7	Extension cable for base station	1	
8	Accessories bag (#6 zip lock bag: cable tie*10pcs+ M4*8 self-tapping screws 3pcs+M4.8*16 self-tapping screws 2pcs)	1	

3. Harness Layout



Note: If the output cable won't be used, please wrap the cable to avoid short circuit.

4. System Layout



5.Function description

5.1 Self-diagnosis

5.1.1 Base station self-diagnosis function

After the vehicle is started and the system is powered on, the base station performs self-test:

If the base station self-test successfully broadcasts "Engine starting, pay attention to the safety", the base station enters normal operation; If the base station self-test is abnormal, it will not broadcast the voice and stop working.

5.1.2 Tag self-diagnosis function

Press the button for 1 second, the tag will perform self-diagnosis: If the tag self-diagnosis passed, the buzzer built inside "beep" once and starts working normally, and the indicator light blinkers every 15 seconds; If the Tag self-diagnosis failed and the buzzer no beep, the tag won't work and indicator light won't blinker.

5.2 System working logic

5.2.1 Night working mode

When the position light detects a high level or pulse signal feed within 100Hz, the base station will work in night working mode and warning volume will be reduced to a lower level.

5.2.2 Beacon light and output function

When TAG enters the warning distance, the beacon will flash and the output cable outputs 12/24V; Default Max. detection distance is 15m. Note: Support warning distance setup

5.3 Reverse working mode

When the reverse wire detects a high level or pulse signal input within 100Hz, the base station will work in reverse mode and continue to output the reverse voice (CAUTION, I'm backing up) until exit the reverse mode.

5.4 Forward working mode

When the vehicle gear is not in R gear, the base station enters the forward working mode.

5.4.1 Warning outside the safety area:

When the safety area between the base station and the tag is 1.0m, if the tag and the vehicle distance less than 1.0m, neither the base station nor the tag will alarm; if the tag leaves the safety area, the base station and the tag will provide warning beep.

5.4.2 Vehicle-to-vehicle collision avoidance warning:

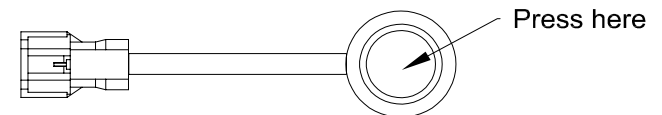
The base station is installed on the vehicle. If the distance between the vehicles is within the alarm area, the base station will alarm according to the alarm voice setting. After exit the alarm area, the alarm will stop automatically.

5.4.3 Pedestrian-to-vehicle collision avoidance warning:

Pedestrian who carrying tag and move around the base station freely.If the distance between vehicle and pedestrian is within the set warning range, the base station and tags will provide warning. After exit the alarm area, the alarm will stop automatically.

5.5 Switch function

When the button is pressed, the beacon and base station alarm will be turned off, and if the button is pressed again, the beacon alarm will be on again.



5.6 Alarm zone

5.6.1 Base station default warning zone (warning zone and broadcast human voice could be set by handheld setup tool):

Green zone (pre-alert area) is from 30 to 50 meters away and broadcasts a normal-speed "beep-beep" sound;

Yellow zone (alarm area) is from 15~30 meters, broadcast human voice: "Caution! We're quite close";

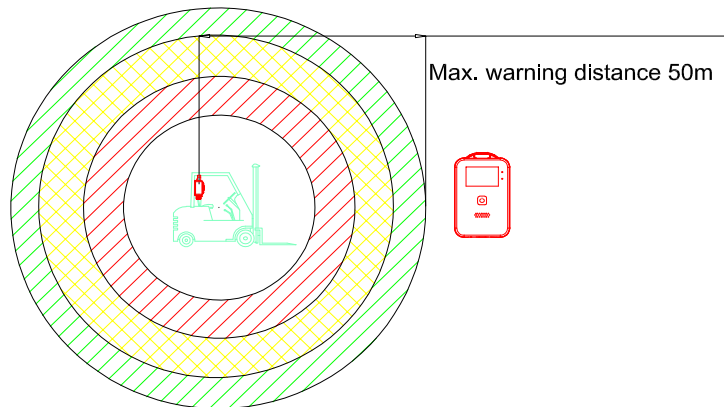
Red zone (danger zone) is from 1.0~15 meters, broadcasts a high frequency "beep-beep" sound;

5.6.2 Tag alarm zone (the tag alarm zone cannot be set independently, it's same as the base station alarm zone):

Green zone (Pre-alert area): a low frequency "Beep-beep" sound;

Yellow zone (alarm area): a middle frequency "Beep-beep" sound and slow vibration;

Red zone (danger zone): a high frequency "Beep-beep" sound and fast vibration.



5.7 Tag button and indicator

5.7.1 Button function and indicator 1

Press 1 second, the device turns on, if Tag self-diagnosis pass, the buzzer beep once, and then it starts to work, and the indicator light 1 flashes once every 15s; if the tag self-diagnosis fail, the buzzer won't beep, the tag won't work, and the indicator 1 won't flash; Press and hold the button for 3 seconds, the device will enter standby mode, the buzzer will beep 2 twice, and indicator 1 will be OFF completely;

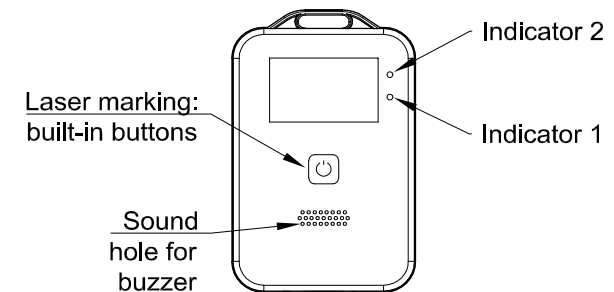
5.8 Indicator 2 (RGB light) function:

During charging or not charging, if the battery level is less than 20%, indicator light 2 will light up red;

During the charging process, if the battery level is 20%~90%, indicator light 2 will light up blue;

During the charging process, if the battery level is more than 90%, indicator light 2 will light up green;

The indicator light will turn off, if it was fully charged.



6. System setup function:

System parameters can be set through the handheld setup tool:

6.1 Base station and tag safety zone settings: setting range 0~10m, default 1.0m;

6.2 Red zone (Pre-alert area) setting: setting range 0~50m, default 15m;

6.3 Yellow zone (Alarm area) setting: setting range 0~50m, default 30m;

6.4 Green zone (Danger area) setting: setting range 0~50m, default 50m;

6.5 Output and warning light distance setting: setting range 0~50m, default 15m;

6.6 Base station to base station alarm function settings: ON/OFF, the default is on;

6.7 Base station speaker alarm setting: ON/OFF, the default is on;

6.8 Base station speaker alarm volume settings: 1st gear, 2nd gear, 3rd gear, default 2nd gear;

6.9 Base station alarm voice language setting: English, Italian, Spanish, French, Portuguese, Arabic or Chinese, the default is English;

6.10 Tag alarm setting: ON/OFF, the default is on.