Detect **Protect** Manage

Ports & Terminals
Warehouse, Logistics
& Distribution
Paper & Packaging
Manufacturing

Waste & Recycling
Construction &
Civil Engineering
Mines & Quarries
Aviation

ZoneSafe®
Proximity Warning System

ZoneSafe®
Proximity Warning & Alert Systems

> "We've been using Zonesafe for nearly 4 years now and the system has contributed to us having no LTI's (lost time incidents) or MTI's (medical treatment incidents) across two very busy sites. I highly recommend this technology."

Scott Van Loon - National Manager For Oil & Gas
Qube Energy – Australia

> "We consider this a valuable and reliable tool which will significantly increase safety in our daily operations."

Laurids Uglvig - Chief Operating Officer
APM Terminals – Callao, Peru

> "It has clearly improved the awareness and confidence of both truck operators and pedestrians."

Dave Ward - Logistics Manager
DS Smith Packaging - Featherstone, UK

People & Asset Protection Specialists

Accidents occur on work sites throughout the world where pedestrians work in close proximity to vehicles.

Reducing collision risks and preventing accidents to people and assets on work sites is an essential health and safety requirement. However, reducing the risk of collision is not always straight forward, especially when industrial vehicles carry obstructing loads, approach from around corners of buildings and structures, or have blind spots.

ZoneSafe offers people and asset protection with its range of proximity warning and alert systems. Using innovative identification and detection technologies, ZoneSafe significantly reduces the risk of accidents, injury and damage to people and assets on work sites.

Who Are We?

Designed and manufactured in the UK by Avonwood Developments Ltd, ZoneSafe is a leading Proximity Warning and Alert System supplied globally.

Safety is one of our core values and since 1989 Avonwood have specialised in identification and protection systems for people and assets.

With over 25 years experience and knowledge of developing and delivering innovative electronics and RFID technology, our products are backed by a dedicated in-house customer support and production engineering team.

Choose ZoneSafe For:

◎ People & Asset Protection

◎ Reducing Risks of Accidents, Injury & Damage

◎ A Complete Identification & Management Solution

◎ Proven & Reliable Technology

◎ Worldwide Distributors & Globally Supported

◎ Standard & Customised Solutions

How Does It Work?

Zonesafe uses radio frequency identification (RFID) technology to create detection zones around vehicles, assets, crossing points and walkways.

Active tags can be worn by personnel, fitted to assets or setup around hazards. Tags are identified by the system when they enter the detection zone. This triggers an audible visual alert, warning vehicle operators of the tags close proximity to the vehicle.

ZoneSafe tags do not require line of sight and will be detected regardless of obstructions, blind spots or poor visibility.

Our technology also offers event data and near miss reporting via onboard data logging and our Software as a Service (SaaS) platform.

- 360 Degree Detection
- Single or Multiple Detection Zones
- 3-9 Metre Detection Range
- Detection Regardless of Obstruction
- Event Data and Logging
- SaaS

360°
Detection

A ZoneSafe in-cab control unit is fitted within reach of the vehicle's operator. An audible visual alarm alerts the operator every time a tagged person or object is detected entering the antenna's detection zone.

ZoneSafe detection antenna(s) are fitted to the forklift truck*. This creates a 3-9 metre 360° continuous detection zone around the vehicle, which detects personnel or objects with a ZoneSafe tag.

ZoneSafe active RFID tags are worn by all personnel or fitted to assets. The tag can be placed in our ZoneSafe hi viz jacket, clipped to a lanyard, fitted to a hard hat, worn on your belt or simply placed in your pocket.

3-9 metre detection zone emitted from the antenna

*ZoneSafe can fit to any size or type of vehicle. Additional antennas can be added to increase the detection area as required.

Detection Zones

ZoneSafe Proximity Warning & Alerts Systems feature a range of different detection zones suited to either the type of vehicle or your specific requirement.

Single or multiple detection zones can be configured to cover the whole vehicle or set up to cover specific areas such as:

- Swing Areas
- Arms, Attachments & Buckets
- Blind Spots

Unlike other systems and technologies such as passive RFID, cameras and blue lights, ZoneSafe offers a fully 360° detection system that will detect tags through obstructions and around corners.

360° Detection

An excavator can be fitted with multiple detection zones to cover key areas of the machine including rear slewing area, operator blind zones and arm or bucket.

Single Zone Detection - Most commonly used on forklift trucks and small plant.

Large vehicles such as reach stackers can be fitted with multiple detection zones to cover key areas of the machine including the rear turning area, blind zones and spreaders.

Vehicle To Person Alert

ZoneSafe Vehicle to Person Alert is our standard application - helping to prevent collisions between industrial vehicles and pedestrian workers when they work in close proximity to each other.

Whether it's a forklift truck or an excavator, the system is designed to fit any type of vehicle large or small. Additional antennas can also be fitted to create larger detection zones when required.

Every time a pedestrian worker enters the detection zone around a vehicle, the audible visual alarm on the in-cab control unit alerts the driver of pedestrian worker's close proximity. Optional vibrating tags will also warn the pedestrian about approaching vehicles.

The system logs events and can provide reports on any near-miss occurrences using ZoneSafe Insight™, our software as a service (SaaS) platform for identifying, analysing and reviewing events.

Features:

- Adjustable detection zone range 3 - 9 metres
- Detect pedestrians in close proximity to moving vehicles
- Link with ZoneSafe Insight™
- Two-way feedback using audible visual warning & vibrating tags

Other ZoneSafe Applications

Walkway / Crossing Alert
Using audible visual warnings, activation of control signals, barriers and gates, ZoneSafe Walkway and Crossing Alert Systems offer the ability to provide right of way or segregation to prevent collision between approaching vehicles and pedestrians at crossing points and walkways.
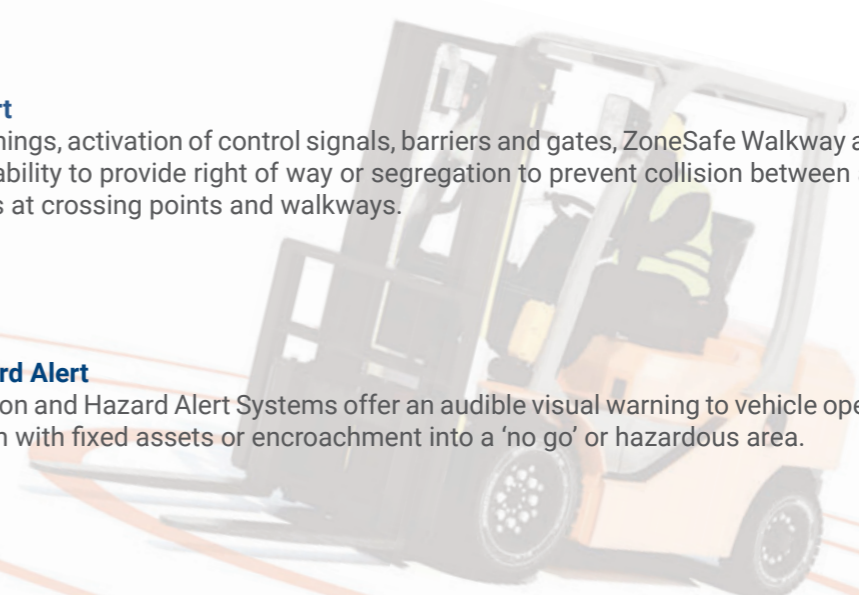
Asset Protection / Hazard Alert
ZoneSafe Asset Protection and Hazard Alert Systems offer an audible visual warning to vehicle operators when there is a risk of collision with fixed assets or encroachment into a 'no go' or hazardous area.

Access Control
Personnel Access Control provides restricted or controlled access through doors, turnstiles or gates. Vehicle access control provides hands-free automated access for roller doors and barriers. Both systems can be linked with all our ZoneSafe applications.

In-Cab Control Unit

The ZoneSafe In-Cab Control Unit is an integral part of the ZoneSafe system, providing an audible visual alert to the machine operators when tags are detected.

A number of features are supplied as standard, including an internal alarm, data logging, alarm mute, illuminated indicator button and WiFi communication.

The unit is positioned near to the driver or machine operator and installed without restricting operational views or machine controls.

Installation of the unit is straightforward with minimal installation time. A number of mounting options are available to fit units safely, securely and to any vehicle type - including mounting plates, mounting brackets and window suckers.

Features:

- Robust unit with new improved design
- Audible and visual warning alarm
- Integrated mute button
- Multiple alarm tones available
- Data logging
- Direct connection to ZoneSafe Insight™ via WiFi

Detection Antenna

The ZoneSafe antenna is fitted to the exterior of the vehicle, which creates the detection zones. Depending on the shape and size of the vehicle, single or multiple antennas can be fitted.

The detection zone can be adjusted to detect tags within a range of between 3 – 9 metres from the antenna.

Installation of antennas is straightforward with minimal installation time. A number of mounting options are available to fit units safely, securely and to any vehicle type including mounting plates, mounting brackets and magnets.

Features:

- New weatherproof industrial design
- 3 - 9 metre adjustable detection range
- Detection range can be adjusted via ZoneSafe phone app
- Increase detection area with multiple antennas
- Different mounting options available

ZoneSafe systems use Active RFID tagging technology that offers a number of benefits and advantages over other proximity warning systems.

Our ZoneSafe technology provides fast, reliable and accurate data exchange between tags and readers without any limitation on the number of tags in operation - essential for a safety warning system.

The detection of the tag is automatic and does not require line of sight or intervention from the user. Enabling complete hands free operation, ZoneSafe tags are not affected by obstructions such as somebody standing in front of them, or environmental factors like adverse weather.

ZoneSafe tags can be used to detect people, protect assets and to create exclusion zones around hazards.

Features:

- Rugged tamperproof sealed tag units
- Tags are not affected by obstructions such as people, racking or boxes
- Automatic and multiple tag detection
- Each tag can be uniquely identified and linked to individual people

1. Standard Tag (Driver & Pedestrian)
A popular choice for many applications, the ZoneSafe standard tag offers a robust and tamperproof design. The sealed unit with integral battery gives between 2 - 3 years operational life under normal use. An optional belt clip can also be supplied for pedestrian tags.

2. Rechargeable Tag (Driver & Pedestrian)
The rechargeable tag uses the same form factor as the standard tag, with the ability to be charged using a wireless charger. The battery can be completely recharged within two hours and lasts up to 3 months between charges. An optional belt clip can also be supplied for pedestrian tags.

3. VibraTag (Driver & Pedestrian)
VibraTags provide short bursts of vibration to alert the wearer when a vehicle is approaching, or if they are too close to a vehicle. VibraTags can also be charged using a wireless charger. The battery can be completely recharged within two hours and lasts up to 3 months between charges. An optional belt clip can also be supplied for pedestrian tags.

4. TufTag (Cone Tag)
TufTags fit into safety cones or attach to metal surfaces using a magnet. Offering a simple and fast deployment solution to set up detection zones or 'no go' areas around an asset or hazard, TufTags protect during close vehicle movement.

Grey Tags are for Pedestrians, Yellow Tags are for Drivers.

Helmet not included

Tag Tester

The ZoneSafe Tag Check Point, or Tag Tester, enables users to quickly and easily check the status of their tags. A simple LED indication panel on the unit indicates to the user the status of their tag and confirms if it is working correctly.

Additionally, the tag checker can be used to provide restricted or controlled access through doors, turnstiles and gates, ensuring only authorised and operational tags are in the work area.

An optional ethernet port is available allowing the unit to connect over a network and talk to ZoneSafe Insight. This will provide additional reporting and visibility of tags - simplifying tag management.

Insight™ Data Management

Increasing awareness and improving site safety should be at the forefront of every worksite. Identifying, monitoring and improving areas of risk can often prove difficult - especially when incidents such as near miss occurrences go unreported.

Using identification technology, data logging and management information, ZoneSafe improves awareness of collision risks and helps keep workers and assets safe in the work place.

Zonesafe Insight™ is our cloud-based software as a service platform (SaaS) for work site managers and supervisors. Using recorded event data from ZoneSafe devices Insight™ lets you identify near miss occurrences, analyse trends, create reports and manage pedestrian vehicle incidents.

Tag management is also made easy with the ability to check battery levels, track personnel or vehicle movement, restrict access and more.

Features:

- Robust industrial design
- LED indication panel
- Check tag status

- Integrate with access control
- Network option
- Connect to ZoneSafe Insight

Features:

- Analyse and compare events
- Identify trends
- Create custom reports

- Manage tags
- Access data from any web browser
- No software installation required

Qu-Box

During normal working practice, ZoneSafe will detect pedestrian workers in close proximity to the vehicle.

When workers need to carry out duties adjacent to vehicle movements, the Qu-Box provides a zone within the working area that prevents workers tags from triggering the vehicle alarm.

Once the worker leaves the Qu-Box zone, tags will once again be detected by any vehicles in close proximity and trigger the alarm.
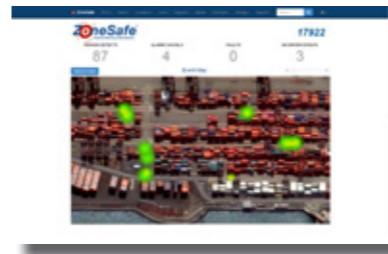
Features:

- Eliminates unnecessary false alarms
- 3 - 9 metre safe working zone
- Easy to set up

GPS Location

NEW!

Track your vehicles and Geo-tag any near miss occurrence. Identify potential danger or high risk areas on your worksite.

Make your work site a safer place by analysing high-risk events and identifying areas in need of improvement such as traffic flow and other high risk activities.

Features:

- Geo-tagging near miss occurrences
- Identify high risk areas
- Track and locate vehicles

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Distributor Network

Avonwood and its range of ZoneSafe proximity warning and alert systems are committed to building strong relationships with both customers and partners alike in order to encourage mutual success.

Avonwood believe in working with global partners and distributors who are able to work with and support customers locally.

📍 - ZoneSafe Distributors Around the World

Why Choose ZoneSafe?

Product Advice
We work closely with our customers to assess and understand their applications and requirements. Using our range of proximity warning and alert systems and engineering experience, we are able to offer and tailor the right solutions.

Flexible Purchase Options
Whether it is outright purchase or lease hire, we can work with you to offer flexible purchasing options to suit your budget.

Support
We provide ongoing after sales support to our customers including technical assistance by phone and email, on-site assistance from service technicians, and a warranty inspection and repair service.

Training
To ensure you get the best out of your system we offer tailored training sessions aimed at different users and groups. Training courses can be held on-site and include, general system how to's, specific product training, installation know how and train the trainer.

Innovation
With over 25 years experience and knowledge of developing innovative identification and detection technologies for people and asset protection, we actively invest in future solutions and welcome ideas from our customers.

ZoneSafe systems are helping to keep work sites safe in over 25 countries worldwide within various industrial sectors including:

- Ports & Terminals
- Warehouse, Logistics & Distribution
- Paper Manufacturing & Packaging
- Construction & Civil Engineering
- Waste & Recycling
- Aviation
- Mines & Quarries

For more information contact us now:

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ZoneSafe is a registered trademark of Avonwood Developments Ltd.

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