

CREATING SAFER PLACES TO WORK

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

Waste & Recycling
Construction &
Civil Engineering
Mines & Quarries
Aviation



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.

With its range of proximity warning and alert systems, and use of 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, which is supplied and supported to a global customer base.

Creating safer places to work is one of our core values, and since 1989, Avonwood have specialised in identification and detection systems for people, assets and vehicles in the workplace.

With over 25 years experience and knowledge of product development and manufacturing, Avonwood has upheld and maintained its accreditation with the internationally recognised Quality Management System ISO 9001:2015.



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 set up 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



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, that 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.



*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 to suit the type of vehicle and your specific requirements.

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.



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 Detection

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™ via WiFi
- Two-way feedback using audible visual warning & vibrating tags

Features:

- New robust weatherproof industrial design
- Audible and visual warning alarm
- Detection range can be adjusted via ZoneSafe phone app
- Increase detection area with multiple antennas
- Detection range can be adjusted via ZoneSafe phone app

The ZoneSafe System



The ZoneSafe Vehicle to Person Alert System is made up of the following equipment:

- Antenna(s) - A
- In Cab Control Unit - B
- Driver Tag(s) - C
- Pedestrian Tag(s) - D

Adjusting the detection zone range of the antenna has never been so easy when you use the ZoneSafe app. Download it from the Play Store (android) or Apple App Store (iphone).





ZoneSafe Range of Applications



Vehicle To Vehicle Alert

Much the same as Vehicle To Person Detection, this application detects other vehicles instead of people. However, both systems can be used at the same time, ensuring your work site is the safest it possibly can be. All drivers will be alerted via the in-cab control unit of any approaching vehicles entering the detection zone.



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 collisions 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.



ZoneSafe Range of Applications



Vehicle Access Control

Hands-free automated access for roller doors and barriers, Vehicle Access Control can also be linked with all our ZoneSafe applications. Controlling access to authorised vehicles will reduce the risk of injury to staff and visitors, while supporting security and preventing loss and damage to all vehicles.



Personnel Access Control

Personnel Access Control provides restricted or controlled access through doors, turnstiles or gates for pedestrians. There is no need to present the tag to the reader, leaving the pedestrian hands-free – helpful when carrying equipment or pushing trolleys. The system can be linked with other applications including Insight™ Data Management giving you the ability to manage access to different areas of your site.



Insight Data Management

Take control of ZoneSafe's range of applications using data management software. Manage access control, tag battery status, track personnel and vehicle movement, and identify near-miss occurrences. For more information on managing your site safely with Insight™ Data Management, see page 17.



Tags

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



Tag Types

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 up to two 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.

The unit is network ready allowing it to connect over a network and talk to ZoneSafe Insight. This will provide additional reporting and visibility of tags - simplifying tag management.



Features:

- Robust industrial design
- LED indication panel
- Check tag status
- Integrate with access control
- Network option
- Connect to ZoneSafe Insight



Vehicle Detector Unit

Ensure the safety of your staff by detecting oncoming vehicles with the ZoneSafe Vehicle Detector Unit (VDU).

When vehicles and pedestrians work in close proximity to one another and you are unable to segregate the two, there is a significant risk of injury. ZoneSafe VDU is a Proximity Warning Alert System (PWAS) that detects moving vehicles.

Installing the unit at a pedestrian crossing, along a walkway or near a door, for example, can provide urgent information to pedestrians warning them of an approaching vehicle. The system can also open a barrier so that the vehicle can pass through, or lock a gate ensuring pedestrians cannot gain access when a vehicle approaches. The VDU can also be used as part of a system to limit vehicle speed.



Features:

- Activate external alarm warning of approaching vehicles
- Activate LED warning signs from light projector
- Automatically open and close vehicle barriers or doors
- Automatically slow vehicles down (3rd party integration required)
- Track and locate vehicle movement (using Insight™)



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



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, GPS 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:

- Analyse and compare events
- Track vehicles and GEO-tag near miss occurrences
- Identify trends
- Create custom reports
- Manage tags
- Access data from any web browser





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

If you are interested in being part of our distributor network, please contact us.



📍 - 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



ZoneSafe is a registered trademark of Avonwood Developments Ltd.

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