



Detect

Protect

Manage

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

Waste & Recycling
Construction &
Civil Engineering
Mines & Quarries
Aviation





“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**



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



Detection antennas are installed onto a vehicle creating detection zones which are configurable between 3-9 metres around the vehicle. Additional antennas can be installed depending vehicle size. Anyone wearing an active RFID tag will be identified when they enter the detection zone.





An active RFID tag is worn by all personnel. The tag can be placed in a hi viz jacket, clipped to a lanyard or simply placed in your pocket.



The in-cab control unit is installed into a vehicle's cab. An audible visual warning alerts the driver when an active RFID tag is detected and can also store and send event data

Detection Zones



Detection Zones

ZoneSafe systems allow single or multiple antennas to be installed onto a vehicle. This means single and multiple detection zones can be setup and configured around a vehicle to suit different applications and requirements.

High risk areas can easily be covered such as:

- ① Slewing Areas
- ① Moving Arms, Attachments & Buckets
- ① Spreaders
- ① Blind Spots

The illustration opposite shows a typical three antenna installation for a reachstacker, with two detection zones at the rear of the vehicle and a single antenna at the front. Each detection zone is overlapping to provide full 360 degree detection around the vehicle.

Example detection zone configurations include:

- ① All detection zones set the same
- ① Front and rear detection zones set different
- ① Only front detection when moving forwards
- ① Only rear detection when moving backwards
- ① All detection zones off when stationary

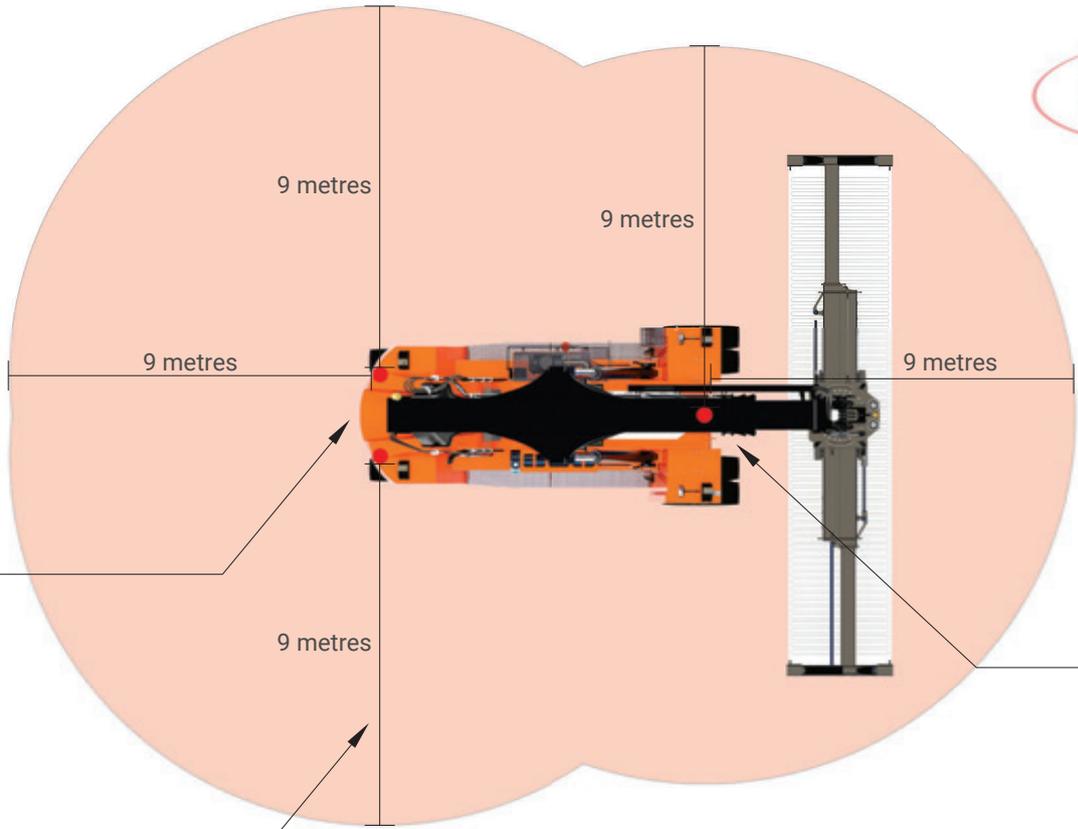


An antenna can be installed to the reachstackers spreaders or other attachments to create a moving detection zone.



Two antennas have been installed at the back covering steer area of the reachstacker.

● Detection Antenna Location



Antenna Positioned at the Front of the Reachstacker





Customer Applications



QUBE

QUBE installed ZoneSafe onto their fleet at Hamilton Port in Brisbane, Australia.

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Lifting Global Trade.
APM
TERMINALS

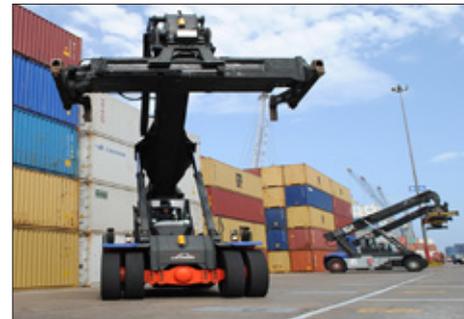
APM terminals in Callao, Peru, installed ZoneSafe onto its range of Reachstackers following a number of serious accidents.

After a successful trial, the system was rolled out with additional options and features including touchscreen display and the switching on/off of detection zones linked to forward and reverse movement.



saam

After carrying out an evaluation and comparison of products on the market, SAAM's analysis concluded that ZoneSafe exceeded their aims and objectives. Following successful trials, they installed ZoneSafe systems across their operational machinery as well as issuing over 250 personnel tags to staff at their Iquique Port in Chile.





Wanting to create a safer working environment after a number of near misses, Port of Tyne installed ZoneSafe on their range of reachstackers and forklift trucks.

ZoneSafe is now an integral part of site operations and has been widely accepted as a positive health and safety improvement across the site.



Following a site visit to the Port of Tyne and seeing ZoneSafe in action, PD Ports took the decision to install systems on to their own reachstackers to improve safety with their own site operations.



Following a referral from APM terminals, Manzanillo International Terminal in Panama trialed the system and subsequently installed ZoneSafe on to 72 reachstackers. The complete system package also included masking boxes, on-site access control and Insight data management to improve safety across their site.



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



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