

# Proximity Warning & Personnel Detection

Personal protection  
& identification  
to help safeguard  
personnel from vehicle  
& machinery hazards

Protecting your most valuable asset

# Proximity Warning & Personnel Protection

## What is ZoneSafe™?

ZoneSafe™ is a proximity warning system that produces a “virtual” detection zone around a vehicle, machine or even a restricted area.

When the zone is breached by personnel wearing a ZoneSafe™ tag an event is triggered.

The simplest form of event is an audible and visual alarm alerting the driver or machine operator to the danger of somebody having breached the zone. An optional external alarm to alert the person committing the breach is also available.

## Complements existing safety warning measures

Unlike other safety warning measures, ZoneSafe™ provides active rather than passive protection. As soon as the zone perimeter is breached the driver is alerted and can then follow standard operational procedures and use any other installed equipment (mirrors, cameras etc) to identify the intrusion and act accordingly.

360° protection

## Part of your PPE

ZoneSafe™ tags can be detected by any vehicle or equipment on which a ZoneSafe™ system has been deployed. This makes it ideal for companies who have staff movements across multiple sites. The tags can be worn in a number of ways or be integrated into hi vis clothing or other PPE such as hard hats.

ZoneSafe™ is a machine safety solution that uses hands free RFID technology. It provides complementary protection to help safeguard personnel from vehicle and machinery hazards. In deploying ZoneSafe™ companies are showing their commitment to minimising accidents.


ZoneSafe™ offers an effective component to assist in meeting health and safety targets and zero harm strategies.


**Every year about 5500 people are killed in workplace accidents in the EU, of which about a third are related to transport (1). These accidents usually involve people: being struck or run over by moving vehicles (e.g. during reversing); falling from vehicles; being struck by objects falling from vehicles; or vehicles overturning. These accidents can be avoided by effective management and prevention measures.**


(FACTS European Health & Safety at Work 16)





**Key**


 Front & Rear Antenna providing protection to the front, rear or 360°

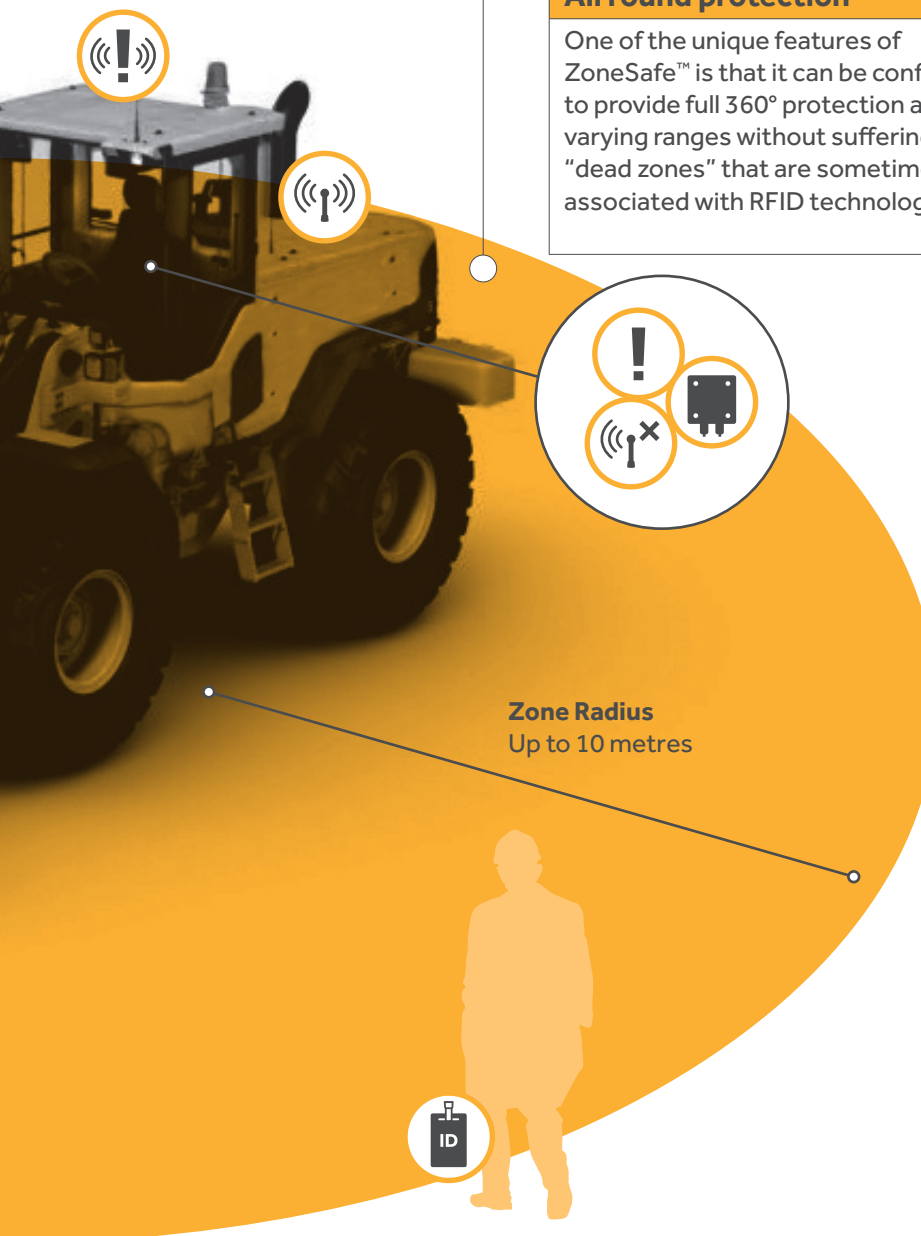
 Alarm box, audible & visual alarm if safe zone is breached

 Control box including data logging of up to 8,000 events

 Driver antenna prevents driver from giving false alarms when in vehicle

 Personnel Tags, individually identified

 Optional external alarm



**All round protection**

One of the unique features of ZoneSafe™ is that it can be configured to provide full 360° protection at varying ranges without suffering the “dead zones” that are sometimes associated with RFID technology.

**Event Recording**

The ZoneSafe™ system records all tag detection events. Each tag is individually identified and the time/date stamped logged data can be downloaded for data management purposes.

This also makes ZoneSafe™ a useful tool for training purposes or even to improve operational practices.

**Zone Radius**  
Up to 10 metres

**A solution that meets your needs**

ZoneSafe™ can be deployed onto a wide range of vehicles across multiple applications and disciplines. Typical applications where the system can be deployed include construction sites, quarries, material handling sites, ports, and warehouses. In fact anywhere there is a need to reduce the risk caused to personnel by moving vehicle and machine hazards.

ZoneSafe™ can be customised to meet your needs: variable protection range, full 360° detection or front/rear only, type of event triggered, tag identification and data logging.

**ZoneSafe™**  
Simple cost effective protection

Install ZoneSafe™



Protect Personnel



Reduce the risk



## What can ZoneSafe™ do for you?

- Reduce the risk of accidents by warning the machine operator of the presence of tag wearing personnel if the virtual perimeter zone is breached
- Provide an active warning system that complements existing safety measures
- Data logging provides a record of any zone breaches, this information can be used to identify additional training requirements and where required improvements in operational practice
- Become an effective component to your health and safety strategies and zero harm policies

## ZoneSafe™ features

- Customisable detection range and detection zones:
  - Range up to 10 metres
  - Protection including front or rear only or full 360° with no dead zones
- Event logging:
  - Enhance safety management practices
  - Data can be used for training
- Suitable for most types of off highway and on road vehicles
- Tag anything – vehicles, people, objects
- Active technology – doesn't rely on operator action to detect personnel
- Optional:
  - External alarm and beacon
  - Software upgrades
  - Tag Tester

## Where can ZoneSafe™ be used?

Anywhere where the proximity of people and moving vehicles or machinery is a concern including:

- Construction sites
- Quarries
- Material handling sites and transfer stations
- Depots
- Ports
- Warehouses

## ZoneSafe™ can be deployed on a number of vehicle types



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