

Proximity Warning & Personnel Detection

Improve workplace safety with proximity warning technology.



SENSORZONE
PROXIMITY WARNING SYSTEM

Invest in the Safety of your Workforce

Protect your workforce and reduce the risk of vehicle-pedestrian collisions with TR Hirecom's SensorZone. With SensorZone, you're not just buying a product, you're investing in the protection of your workforce now and into the future.

- > Leading solution in pedestrian safety
- > An end-to-end solution including consultation, site survey, installation, training, and support
- > Site optimisation to ensure successful deployment of SensorZone
- > A commitment to helping you meet your safety goals





Construction

From building to major civil engineering projects, SensorZone has been deployed across the construction industry to improve the safety of personnel at busy worksites.



Waste & Recycling

SensorZone offers valuable protection in the waste and recycling industry. It can be used to improve safety at waste transfer stations, material recycling facilities, landfill operations, and civic amenity sites.



Quarries & Aggregates

SensorZone has many applications in the quarries and aggregates sector such as reducing the risk of vehicle-personnel collisions at batching plants and depots.



Warehouse, Logistics, & Industrial

As forklifts are responsible for a high proportion of plant – personnel collisions, SensorZone offers safety solutions for customers working in warehouses or large ports.



Rail

SensorZone offers flexible solutions for the wide range of mobile equipment needed in the rail industry, offering safety solutions for workers whether they're constructing new railway lines, working on night-shift, or undertaking maintenance.



Utilities

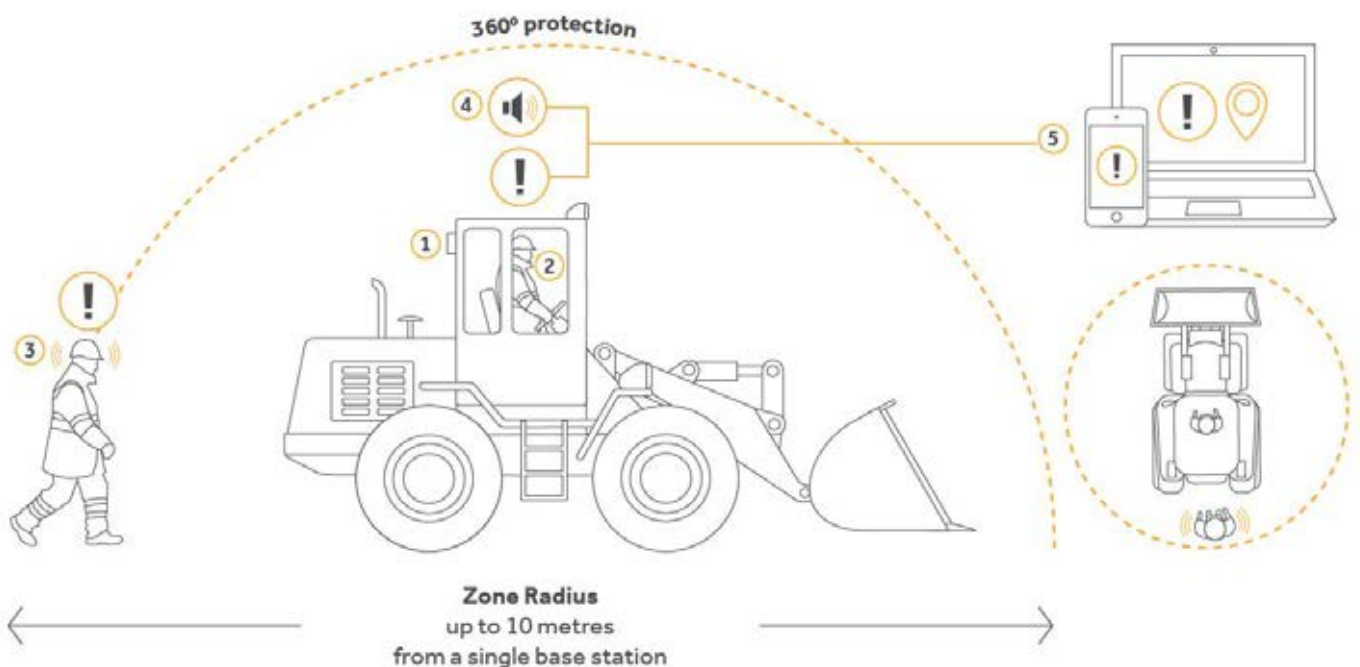
The utilities sector has one of the widest ranges of applications for SensorZone. With so many staff working in close proximity to moving equipment, SensorZone offers unlimited value for the safety of employees in this industry.

Proximity Warning & Personnel Protection

What is SensorZone

SensorZone is an audible and visual warning system designed to reduce the risk of vehicle-personnel collisions. It can be used in any environment where the proximity of people and vehicles is of concern.

- > Total warning solution
- > Fully configurable to meet application requirements
- > Full data logging capabilities including cloud based analytics



Vehicle - Pedestrian Safety Tool Box

Safe Site

- > Segregation of people, vehicles, and mobile plant wherever possible
- > Enforced speed limits and traffic management plans
- > Appropriate warning signs

Safe Vehicles

- > Good all round vision and visibility aids
- > Regularly examined and maintained
- > Proximity Warning Systems

Safe Pedestrians

- > Appropriate PPE including high visibility clothing
- > Individually identified proximity warning tags
- > Training instruction and supervision
- > Enforcement of procedures and site rules

Proximity Warning & Personnel Protection



How does SensorZone work?

SensorZone produces a detection zone around a vehicle, machine or even a restricted area. When the detection zone is breached by personnel wearing a SensorZone transponder, the machine operator is alerted to their presence and can take the appropriate action. The main function of SensorZone is to warn the machine operator of the presence of tag-wearing personnel, as they are the only person that can stop the machine. To provide an additional tier of protection there are optional warnings for pedestrians.



1. SensorZone Base Station

Our base station generates an RF zone or bubble around the vehicle. The size of this bubble can be varied to meet site requirements.



2. Operator Display Unit (ODU)

The ODU performs a range of functions including alerting the machine operator to zone breaches and controlling authorised approaches.



3. Personal Transponders

SensorZone Transponders are designed to be an integral part of personnel's PPE. SensorZone transponders are available in a range of options including a helmet mount vibrating version.



4. External Alarm

The external alarm alerts any tag wearing personnel breaching a safety zone that they have done so, allowing them to retreat to a safer location. It also alerts others to the fact there has been an exclusion zone breach.



5. OverSite Telematics

The Oversight system takes the SensorZone proximity warning system from a site based safety aide to a proactive safety management tool.

Simple and Cost Effective Protection



Install SensorZone



Protect Personnel



Reduce the risk

What is OverSite Telematics?

The SensorZone proximity warning system has proven to be an effective tool in helping reduce the risk of vehicle and personnel collisions. OverSite telematics solutions enhance SensorZone by allowing customers to monitor the interaction between personnel and mobile plant.

While SensorZone already has a data logging function, the OverSite telematics package offers easy access to this data via a range of reporting options or live data feed if required.



SensorZone can be used across multiple devices.

Key Features of OverSite

- > Live Track Snail Trail allows the user to review plant activity live (and historically) on Google maps overlay, includes location, tag id with time and date stamp, also maps vehicle journey for selected time period
- > Multiple report options
- > Automatic alerts if via email or SMS required
- > Geo Fencing and Point-of-Interest options
- > Can be used for vehicle tracking
- > Installed or retrofitted to existing SensorZone system in minutes



Identify particularly hazardous areas within your site.

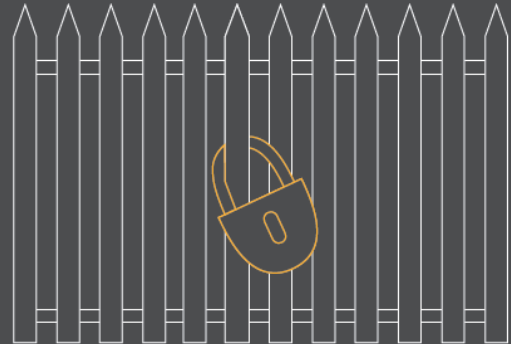
Key Benefits of Using OverSite

- > Monitor interactions between mobile plant and personnel
- > Identify those at greater risk and make positive interventions
- > Monitor behavioural change and effectiveness of safe systems of work
- > Identify personnel training needs
- > Identify "problem" areas on site
- > Track assets

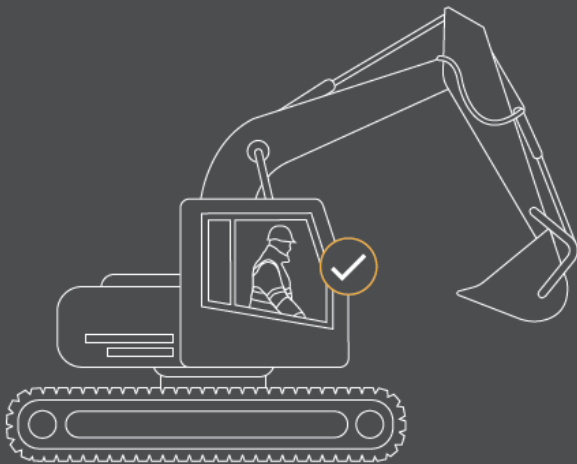
Application Areas



Proximity Warning



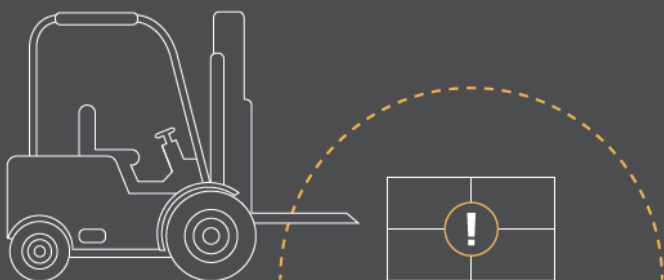
Access Control



Authorised Driver



Exclusion Zone



Critical Asset Detection



Safety Management

What is SensorZone iNstant?

SensorZone iNstant is a wireless proximity warning solution for easy, instant fit. There's no installation downtime, and it's ideal for site-transient vehicles or those on short-term hire and vehicles such as MEWPs.

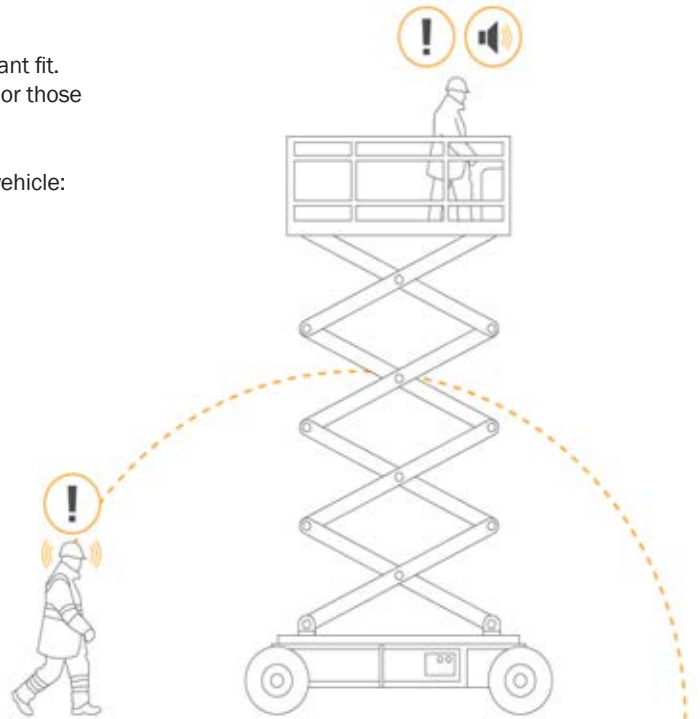
Create an instant exclusion zone around the "difficult to see" areas of a vehicle:



SensorZone iNstant battery base station



iNstant remote display (iRD)



Key Features of SensorZone iNstant:

- > Portable solution for providing an instant exclusion zone solution to any vehicle
- > Battery powered
- > Battery Base Station – 24hrs¹
- > Remote Display 24hrs¹
- > Compatible with all SensorZone Standard, Easy Fit, and Transponder products
- > Zone range² adjustable from 2 m – 10 m
- > Independent audible and visual warning of zone breaches from battery base unit and iNstant Remote Display (iRD)

Suitable for:

- > Short-term installations
- > Delivery vehicles
- > MEWPs
- > Static exclusion zones

Key Benefits of Using OverSite:

- > Zero installation downtime
- > No cabling
- > Optional remote display (iRD)

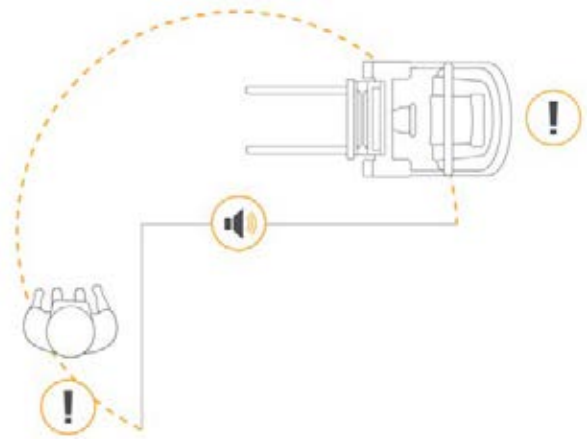
¹Correct at time of publication

²Requires SensorZone interface and software

What is Crossing Zone?

Although most applications involve SensorZone being fitted to vehicles and pedestrians wearing tags, there may be some situations where other solutions are preferable. This may be the case in environments where vehicle – personnel segregation is already in place, and where clients are mainly concerned about site crossing points, or areas where pedestrians and vehicles occasionally interact.

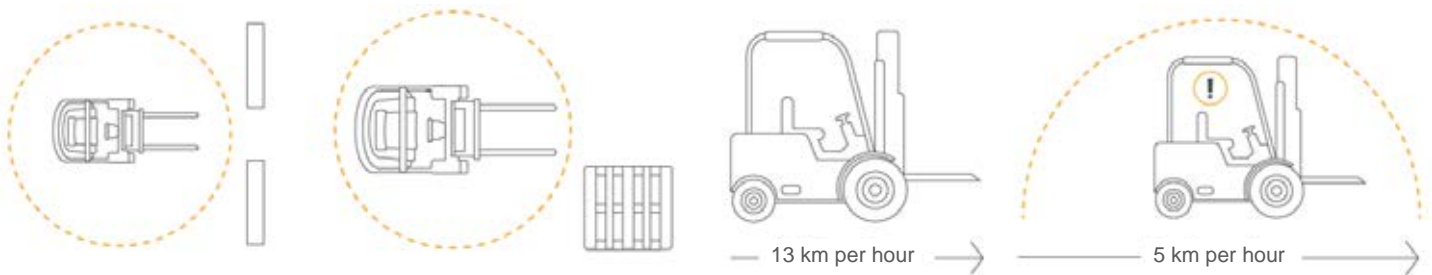
In using SensorZone iNstant, individual points of detection can be set up. This provides a local audible and visual warning should a truck be present at a point of concern. Trucks are fitted with specially adapted tags and the base stations are mounted in appropriate static locations. When the truck nears the location, an alarm will activate and warn pedestrians in the vicinity that a truck is nearby.



Additional FLT Functions

Integration into Machine Functions:

SensorZone has always had the capability of being integrated into machine functions such as deadman’s handles or the handbrake. Although it is not commonplace in most applications, it can be very important in the Warehouse and Logistics market.



Zone Control:

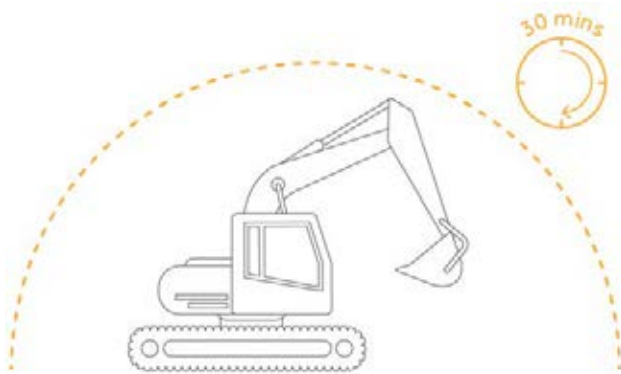
- > Change the size of the detection zone. This can be useful when a vehicle goes from an outdoors environment where a larger zone is required to an indoors environment where a smaller zone may be necessary. The speed of the truck can also be limited depending on environment.

Speed Control:

- > Slow the vehicle down on detection of a tag

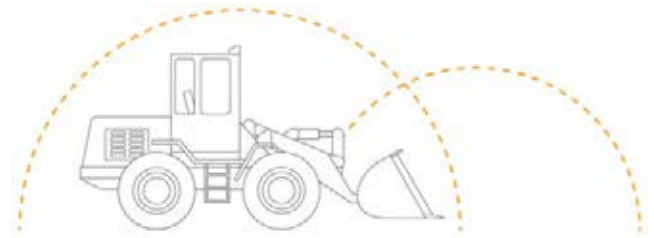
How can I enhance SensorZone?

SensorZone is used across a wide range of industries and applications. To ensure it meets necessary requirements, a range of additional options are available.



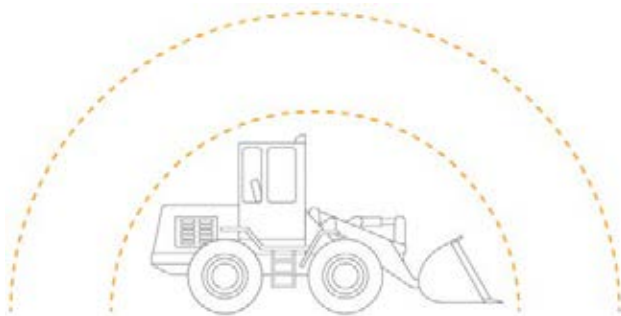
SensorZone Easy Fit

SensorZone EasyFit allows for easy installation of the proximity warning alarm system on the plant. It's fast and efficient, taking less than 30 minutes to install.



BucketZone

BucketZone allows for the creation of a separate detection zone around the working equipment of the machine. This can make the system more practical in certain applications. Useful for plant such as material handlers and loading shovels.



Zone Selector

Allows two preset ranges to be set on installation. The zone selection is via a supervisor key switch, allowing management controlled zone selection.



SensorZone Limiter

The SensorZone Limiter produces a "null zone" which "hides" SensorZone tag wearers from detection by SensorZone systems. This is useful when personnel are less vulnerable such as when they are travelling in vehicles or in areas segregated from moving plant.

SensorZone Product Family



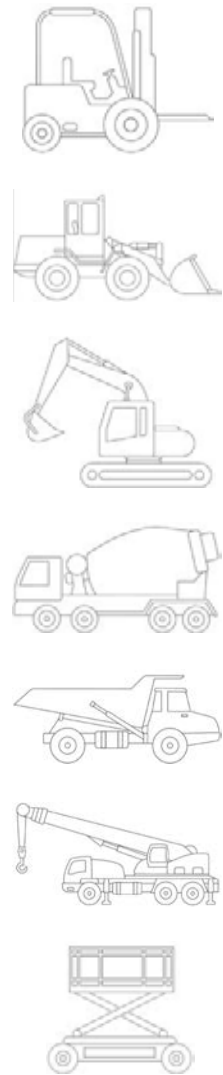
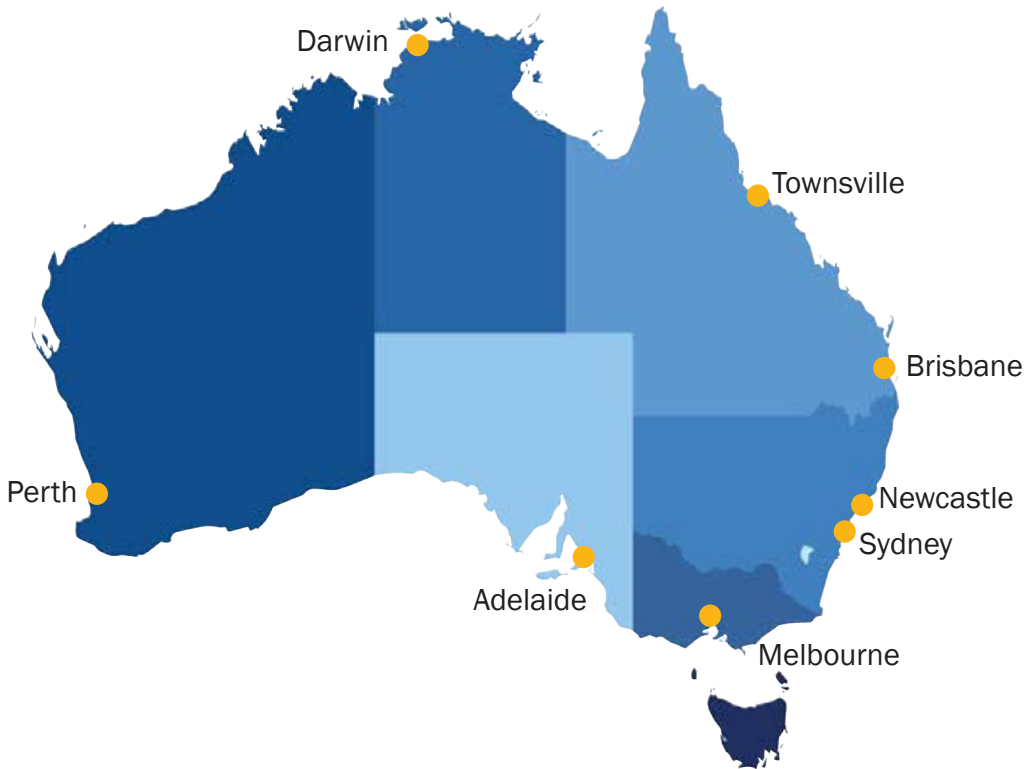
Product	Typical Use	Machine Types	Available Options
Single Antenna	Fixed Installation, widely used in waste management, construction, ports, and logistics	Machines with cabs up to 50 tonnes	BucketZone, Zone Selector, Machine Function Integration, Banksman Alert, OverSite Telematics
Single Antenna EasyFit	Temporary installations and hire machines, widely used in construction	Machines with cabs up to 50 tonnes	BucketZone, Zone Selector, Banksman Alert, OverSite Telematics, Powerpack
SensorZone Dual Antenna	Waste Management and Construction	Large machines and longer plant such as articulated dump trucks	Zone Selector, Machine Function Integration, OverSite Telematics
SensorZone Mini	Widely used in construction	Smaller machines without cabs such as rollers and mini excavators	OverSite Telematics
SensorZone Dumper Advance	Construction	Specifically designed for forward tipping dumpers	OverSite Telematics
SensorZone FLT	Warehouse and Logistics, Waste Management	Designed for use on forklift trucks and similar vehicles such as reach stackers	OverSite Telematics
SensorZone BucketGuard	Utilities	Mini excavators for monitoring of working equipment only	OverSite Telematics
SensorZone iNstant	When immediate deployment is required, where cabling is not possible or short term use. Creation of static zones (off machine) and crossing points	Most site vehicles on short term basis, delivery vehicles, MEWPs	Available with or without remote display

TR Hirecom Service & Support

SensorZone fits any vehicle

Would you like to learn more about how you can improve safety and efficiency in your workplace? TR Hirecom offers a huge range of customised solutions for digital radio systems, site emergency systems, wide area radios, remote area communications, and dispatch management.

We have branches conveniently located throughout Australia and our team is available to assist you with any queries.



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