



## RFID Detection System

ZoneSafe RFID Detection System is designed for industrial vehicles and plant machinery. Quick and easy to install, the system consists of a Control Unit (which is positioned next to the driver) and an Antenna Unit fitted to the exterior of the vehicle. ZoneSafe Tags are required in order to make the system work but are sold separately.

The Antenna Unit creates a 360° detection zone around the vehicle with the ability to detect ZoneSafe Tags from a distance of 3-10 metres. Depending on the size and shape of the vehicle, more than one Antenna Unit may be required.

When a ZoneSafe Tag is detected on entering the detection zone, the system will emit an audible visual alert to the driver of the vehicle from the Control Unit. A pedestrian wearing a Tag will also be alerted by a vibrating pulse.

The system will record and save events including Tag detections and near miss occurrences - uploaded to The Cloud via Wi-Fi.

The system provides a solution to help reduce the risk of collisions between industrial vehicles and pedestrian workers. It can also be used to help protect assets by creating cordoned off areas or 'no go zones' using AssetTag.

ZoneSafe Tags are fully compatible with other ZoneSafe products - with the ability to provide personnel access, vehicle access, and also set up walkway and crossing alerts.



Antenna Unit (EU)

Control Unit (EU)

# RFID Detection System

## Features

**Multi-Colour Status Indicator**  
**Mute Button**

**Audible Visual Alarm**

**Antenna**

**Event Logging**

**Communication**

**Tag Alarm**

## Benefits

Indicates to the vehicle driver the unit is functioning correctly.

Enables the vehicle driver to silence the alarm and allow a single pedestrian worker to approach the vehicle.

Provides an alert to the driver when a tag enters the 3-10 metre detection zone around the vehicle.

A single antenna generates an adjustable detection zone between 3-10 metres.

Records and saves tag detections, system events and identifies and logs driver ID - all information that can be downloaded.

Using Wi-Fi connect to a control unit using a mobile device to access event logs and to adjust configuration settings such as detection zone range.

Alarm reminds driver has left tag in vehicle.

## ZoneSafe Antenna

### Electrical

Voltage 12V - 24V DC  
nom (11-32V max)

Current Consumption 1A Max

### Mechanical

Dimensions 250mm x 122mm x 90mm

(incl. glands)  
Material ABS / PC

Weight 1.4kg

Connectors Nylon Glands

Mounting AMPS Configuration

### Communications

Wired RS485

### Environment

Ingress Protection IP67

Temperature -40°C to +85°C

### Radio

TX Frequency 125kHz

RX Frequency Various MHz

Range TX: adjustable 3-10m approx  
RX: 50m typ

### Antenna Unit (EU)

**Part Number 5882**

**Model Number ZS-1000-AP**

## ZoneSafe Control Unit

### Electrical

Voltage 12V - 24V DC nom  
(11-32V max)

Current Consumption 1A Max  
Memory 4000 Events

### Mechanical

Dimensions 180mm x 102mm x 58mm

(incl. glands)  
Material ABS

Weight 0.5kg

Connectors IP D-type

Relay N/O N/C

(for additional  
sounders /  
beacons)

Digital Input 3 x Opto-Isolated inputs

### Communications

Wi-Fi IEEE 802.11b/g/n (2.4GHz)

### Environment

Ingress Protection IP65

Temperature -40°C to +85°C

### Control Unit (EU)

**Part Number 5881**

**Model Number ZS-1000-ECU**