



ZoneSafe Quick Start Guide

Masking Zone Antenna
ZS-1000-MZ/ZS-1001-MZ(US)

Introduction

During normal working practice, ZoneSafe RFID Detection System will detect ZoneSafe tags worn by pedestrian workers operating in close proximity to vehicles.

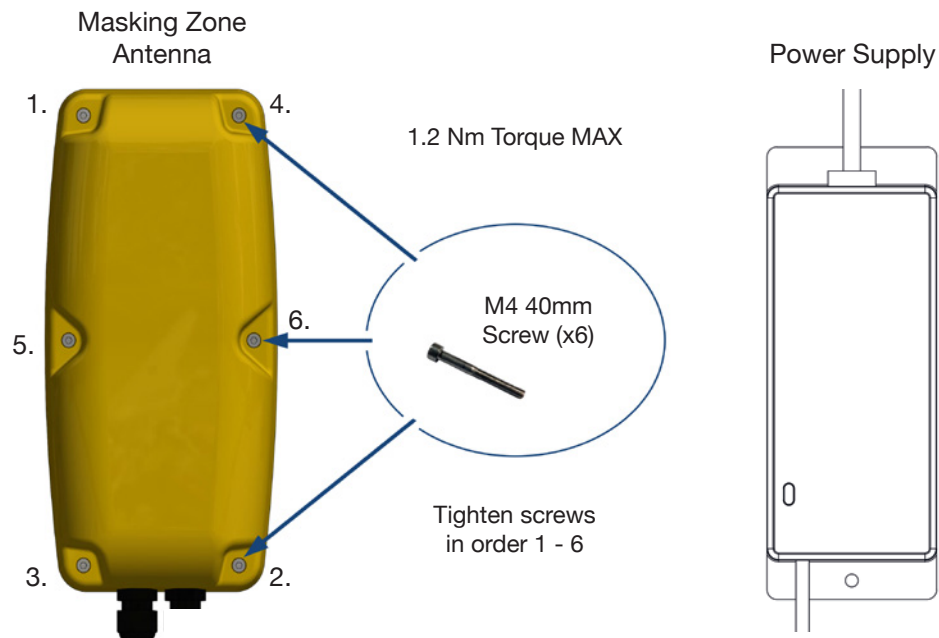
When workers need to carry out duties adjacent to vehicle movements, the Masking Zone Antenna provides a zone within the working area that prevents worker's tags from triggering the vehicle alarm called the or quiet zone.

Once the worker leaves the quiet zone, tags will trigger the vehicle alarm as part of the RFID Tag Detection System.

What's In The Box

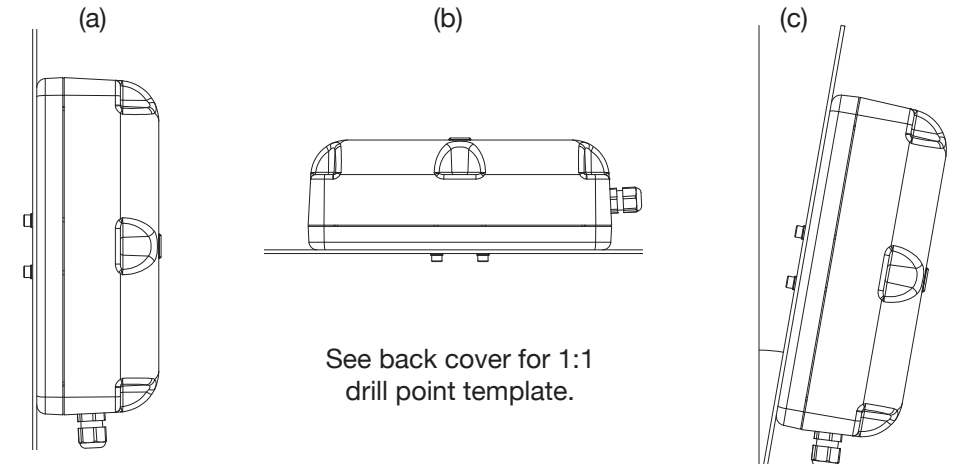
The Masking Zone Antenna comes supplied with the relevant screws (x6) power supply and plug adaptors.

Removing the enclosure's 6 fixings will provide access to enable power connection and also the ability to adjust the size of the quiet zone (see page 7).

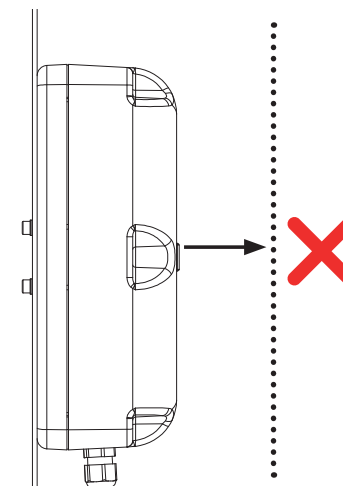


Fixing

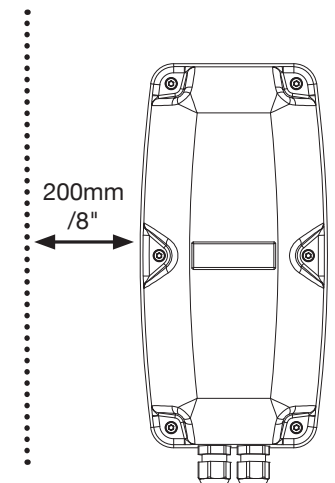
Mount antenna vertically (a - best position) or horizontally (b). For vertically mounted antennas in high positions, angle unit downwards (c).



Do not place antenna behind metal.

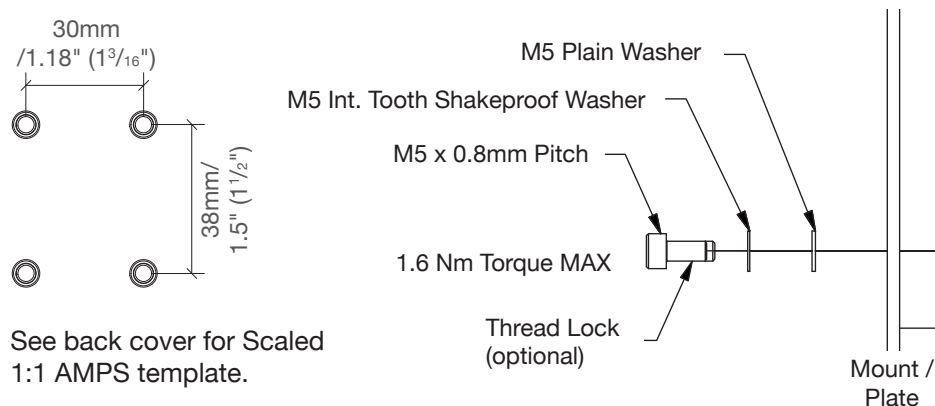


Do not surround antenna with metal.



Fixing

4 x M5 screw inserts are located on the rear of the Masking Zone Antenna. Centres at 30mm by 38mm conform to the industry standard AMPS hole pattern. Maximum thread engagement into enclosure 8mm.



See back cover for Scaled 1:1 AMPS template.

You can use the hole configuration above to attach a 1.5" Ball RAM Mount base and any configuration of RAM mount fixtures. Holes can be made directly on the vehicle and fixing can be done from the back through the vehicle body and into the fixings. Thread lock and shake-proof washers are recommended - always fasten securely but do not over-tighten.

Mounting Plates & Fitting Kits (supplied separately)

A mounting plate is available for the Masking Zone Antenna which fixes to each unit via four nylon patched countersunk M5 screws (no thread lock required).

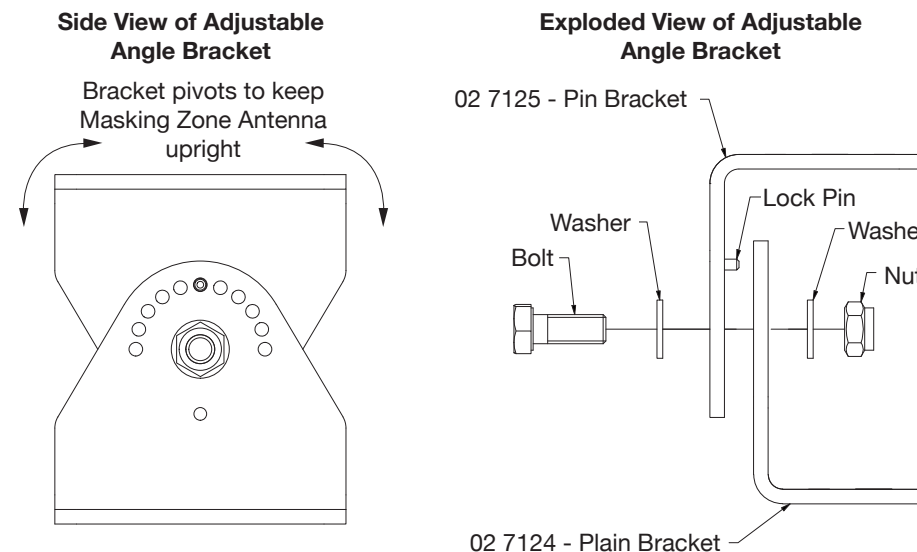
An adapter plate is available for the Masking Antenna which fixes to each unit via four nylon patched countersunk M5 screws (no thread lock required). The adapter plate provide slots top and bottom which are large enough for M8 fixings and some U bolts. Max torque 2Nm (nylon patched screws).



Adjustable Angle Bracket (supplied separately)

The Adjustable Angle Bracket is also available for the Masking Zone Antenna enabling the unit to be installed vertically even when attached to a sloping frame.

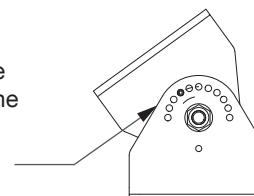
Ensuring the Masking Zone Antenna is installed vertically (see page 3) means the unit will perform at it's optimum level.



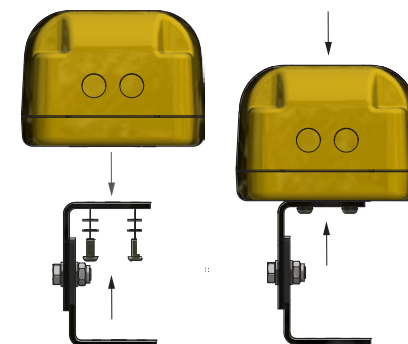
How to Rotate Adjustable Angle Bracket

The Adjustable Angle Bracket should be unscrewed first. Then it can be adjusted using one of the preset holes and locked into position by screwing the bracket together again.

Adjust angle of Adjustable Angle Bracket using one of the 11 preset holes and lock into position

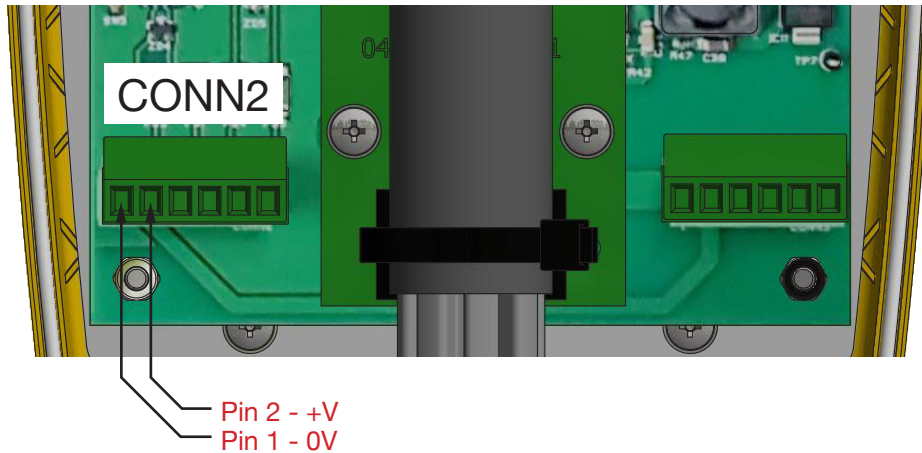


Attaching Adjustable Angle Bracket To Masking Zone Antenna



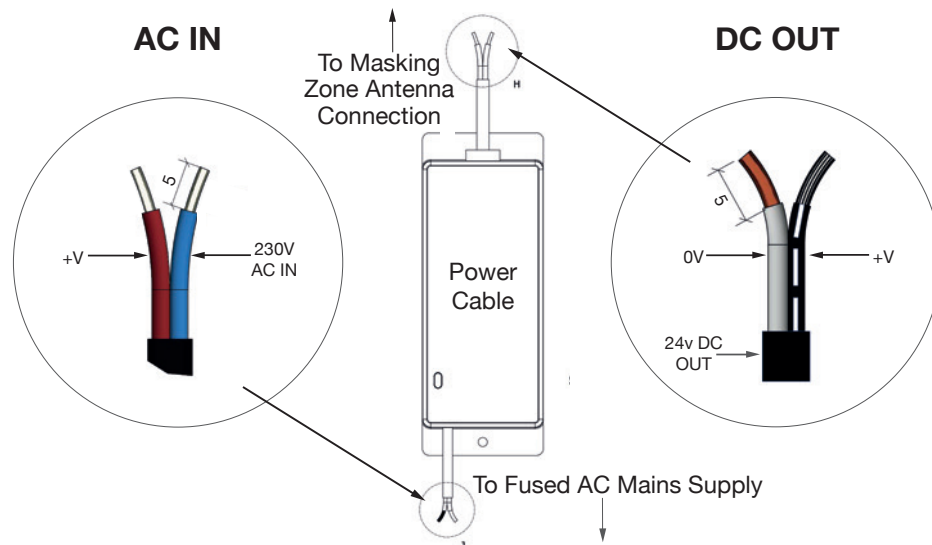
Wiring

The Masking Zone Antenna is wired in via CONN2 which is located inside the unit as shown below. To gain access to the inside of the Masking Zone Antenna, unscrew the six M4 40mm screws (located on the front of the box) with a hex drive).



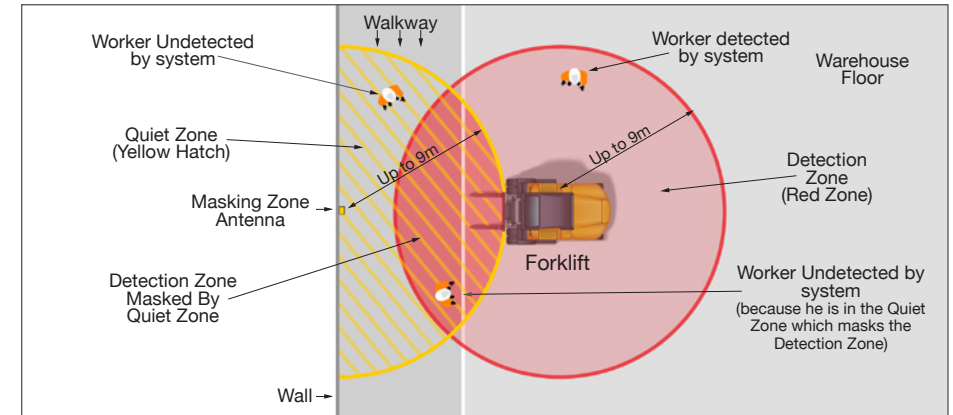
The DC OUT supply is wired into Pin 1 (OU) and Pin 2 (+V).

The +V wire can be distinguished by the white line dotted along the outside of the wire as shown below.



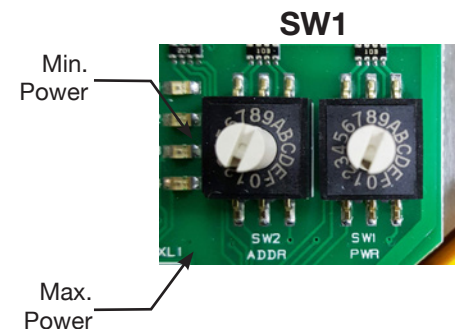
Setting Up The Masking Zone Antenna

Typical Example of a Working Masking Zone Antenna system



1. Mount Masking Zone Antenna as close as possible to the location where you require the quiet zone.
2. Set up Detection Zone with Detection range as required (see ZoneSafe QSG for further instructions if needed).
3. Place a tag in the closest position within vehicle detection area inside the quiet zone. The system will start alarming and the tag will vibrate.
4. Position the Detection Zone in the closest proximity to the quiet zone
5. Slowly adjust the quiet zone range using SW1 on the masking Antenna until tag stops sounding the alarm as per below. Your quiet zone range is now set.

Adjusting The Masking Zone Antenna Range



Find the SW1 Dial located inside the Masking Zone Antenna.

The SW1 dial has a number and letter range adjusting between 1 (min) and F (max). You can adjust the dial between these figures to adjust the power of the quiet zone.

SW1 = Antenna Power - Set power manually select 1 = Min to F = Max

