

Designed and
Manufactured in the
United Kingdom



ZoneSafe™ Standard System Helping to Safeguard Personnel from Vehicle and Machine Hazards



ZoneSafe™ is supplied as a self installation kit. Each **ZoneSafe™** Standard kit comprises 1 x Control Unit, 2 to 4 x Antennas, 1 x Driver Transponder Tag (Yellow) and 5 x Personnel Transponder Tags (Grey). Additional Transponder Tags are available on request

How is ZoneSafe™ Compact installed and utilised ?

The vehicle has a Control Unit installed in the operator area and between 2 and 4 detection Antennas installed around the vehicle.

Personnel wear safety Transponders which can be integrated into Hi-Vis clothing and other PPE.

Where systems are deployed across multiple sites personnel need only carry one Transponder.

An optional Transponder Tester can be used to test personnel Transponders on a daily basis to ensure correct functionality of the Transponders in the work area



ZoneSafe™ Transponder Test Unit

• What is ZoneSafe™ ?

• **ZoneSafe™** is a proximity warning system which produces a 360° invisible detection zone around fork lift trucks and other compact equipment

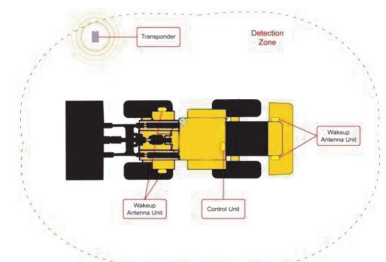
• Hazards related to vehicles such as, obstructed vision, blind spots and unauthorized operation all pose a potential risk to pedestrians. **ZoneSafe™** provides companies with a solution to reduce workplace accidents and help prevent collisions with fork lift trucks and compact equipment

• How does ZoneSafe™ work ?

• **ZoneSafe™** uses electronic safety transponders to detect pedestrian workers and identify vehicle operators. The system produces a 360° proximity detection zone around the vehicle . Entering the detection zone triggers an audible and visual alarm alerting the driver or machine operator to the danger

• System Logging

• **ZoneSafe™** records up to 8000 events including system status and tag detections. The event log can be wirelessly downloaded to a PC or Android device and analysed to help improve training methods and identify possible problems



Why ZoneSafe™

- ◆ Safeguards Personnel
- ◆ Helps prevent collisions
- ◆ Reduces Risk
- ◆ All round 360° detection
- ◆ Front and Rear Options
- ◆ Configurable detection range
- ◆ Hands free operation
- ◆ Easy to operate
- ◆ Event recording
- ◆ Data download and analysis
- ◆ Driver-ID and authentication
- ◆ Self diagnostic
- ◆ Orientation free transponders

ZoneSafe™ advantages

- ◆ Set-Up Safe Zones
- ◆ Detect Pedestrian Workers
- ◆ Identify Drivers
- ◆ Audible and Visual Warnings
- ◆ Hands Free Technology
- ◆ Data Analysis
- ◆ User Friendly Software

ZoneSafe™ Software

- ◆ ZoneSafe™ Manager for PCs
- ◆ ZoneSafe™ Android App
- ◆ ZoneSafe™ ZS Analytics Web
- ◆ ZoneSafe™ PST Manager Web



Technical Specifications

Frequency

The ZoneSafe™ Systems comply to the iDA approved frequency for RFID equipment of 868 MHz

Communications

Communications to the Systems from either a PC or Mobile device is via Bluetooth

Documentation

The ZoneSafe™ Systems are supplied complete with comprehensive and easy to use installation and operation manuals

Technical Support

Demonstration available on request and by appointment

Technical documents available on request

Sales

Contact us via E-mail or Telephone and our technical sales staff will be pleased to provide prices for packaged self install systems and quotations for bespoke systems and accessories

Appointed Distributor for Singapore

Automation Support Services Pte Ltd
60 Kaki Bukit Place,
08-13 Eunos Techpark
Singapore 415979
Tel: +65 6844 6223
E-Mail: info@assmsb.com



ZoneSafe™ Control Unit		
Electrical	Voltage	24V DC nom (18-30V)
	Current Consumption	800mA max
	Memory	7000 Events
Mechanical	Dimensions (inc glands)	235mm x 90mm x 73.5mm
	Connectors	IP68 ABS Glands
	Relays (for additional sounders/beacons)	1 x DPCO Rated Current 2A
Communications	Wireless	Bluetooth
Environment	Ingress Protection	IP65
	Temperature	- 10°C to + 55°C



ZoneSafe™ Wakeup Antenna Unit		
Electrical	Power	18V to 30V DC Input
	Operating Voltage	24V DC
	Current Consumption	250mA
Mechanical	Dimensions (inc glands)	285mm x 150mm x 102mm
	Material	Anodised Aluminium Base. Polystyrene Weather Resistant HIPS Cover
	Weight	1125 grams
	Connectors	IP68 ABS Glands
	Mounting	Integrated M6 Blind Nuts Optional Mounting Kit
Communications	Data	RS485
Environment	Ingress Protection	IP67
	Temperature	- 10°C to + 55°C
Radio	TX Frequency	125kHz
	RX Frequency	960MHz
	Range	TX: adjustable 3-9m approx RX: 50m



ZoneSafe™ Transponder		
Electrical	Power	Lithium Coin Cell
	Operating Voltage	3V
	Life	2.5m Reads or 2 Years*
Mechanical	Dimension	85mm x 54mm x 7mm
	Material	ABS (Grey/Yellow)
	Weight	22.5 grams
Environment	Ingress Protection	IP67
	Temperature	- 10°C to + 55°C



ZoneSafe™ Transponder Test Unit		
Electrical	Power	18V to 30V DC Input
	Operating Voltage	24V DC
	Consumption	300mA
	Memory	7000 Events
Mechanical	Dimensions (inc. glands)	285mm x 150mm x 102 mm
	Material	Anodised Aluminium Base. Polystyrene Weather Resistant HIPS Cover
	Weight	965 grams
	Connectors	IP68 ABS Glands
	LEDs	Blue - Transponder Detected Green - Battery Good Red - Low Battery Warning
	Relays	2 x Guided Contacts DPDT Rated Current 8A
	Mounting	Integrated M8 Blind Nuts Optional Mounting Kit
Communications	Data	TCPIP
Environment	Ingress Protection	IP67
	Temperature	- 10°C to + 55°C

