Important Facts about Industrial Accidents

Important Facts

- **5% of all warehouse workers** will experience an injury on the job each year.

- **The transportation and shipping industry is behind only service members** (firefighters and police) in terms of how many accidents it experiences as an industry.

- According to the National Safety Council, **preventable workplace deaths** have increased nearly **18%** since 2009.

- Serious, non-fatal injuries **cost $84.04 million a week** in the transportation and warehousing industry.

- There **were 2.8 million nonfatal workplace injuries and illnesses** reported by private industry employers in 2017.

- The number of **"days away from work" cases** in warehousing and storage **rose by nearly 3,000 cases to 17,390** total cases in 2017.

- The American Supply Association reports **that 25% of all industrial accidents occur at the loading dock**, many of which are associated with the use of forklift trucks.

- OSHA reports **36% of the nearly 100,000 forklift accidents** at the workplace in 2015 **caused either serious injury or death**.

- Nearly **100 employees are killed and 95,000 are injured every year while operating forklifts** in all industries.

How much these Industrial Accidents Cost?

The Cost of Warehouse Accidents

- According to the National Safety Council, a **worker injury costs companies an average of $38,000 in direct costs**, which includes things like medical bills and rehabilitation.

- It's the **indirect costs**, however, that tend to add up, and the Council estimates that companies pay about **$150,000 per accident**. These indirect costs cover everything from damage to equipment or vehicles to loss of productive time due to lowered worker morale and training costs for a replacement worker.

- **Fines from OSHA** can be costly for businesses. Serious and other-than-serious infractions come in at **$12,600**, while willful or repeat violations will cost you **$126,000**. They are often issued for things like:

  - **Forklifts**
  - **Hazard communication**
  - Guarding floor and wall openings and holes
  - Exits
  - Portable fire extinguishers

Proximity Detection & Collision Warning

Industrial Forklift Safety Hazard Stats

OSHA – **97**k forklift **accidents**, dozens of fatalities,

90k plus injuries in average year

20% Forklift accidents (19000 plus) are preventable & related to pedestrian due to the lack of warning

Proximity Detection System (PDS)

Alert Beep + vibration

A PDS is designed to reduce the risk of collision between pedestrians and moving vehicles in your workplace. The system uses the cutting-edge RF technology to precisely measure the distance between vehicles and pedestrians and provides a highly reliable collision warning.

High Accuracy
UWB technology-based highly accurate distance measurement.

Easy Installation
Out-of-the-box with no-registration and no-calibration.

Bilateral Alarm
Acoustic or vibration alarm for both a driver and a pedestrian.

Easy Operation
Simple and customizable configuration and operation.

OEM-independent
PDS is OEM-independent, so it is ideal for mixed fleets. Can be fitted to new forklift trucks or retrofitted on your existing fleet.

Configurable Warning / Detection Zones
Different alert zones for vehicle to vehicle interaction versus vehicle to pedestrian interaction.

PDS - Vehicle to Pedestrian

Alert Beep + vibration

UWB

Vehicle Tag (VT)   **Vehicle Indicator**

Pedestrian Tag (PT)

Purpose
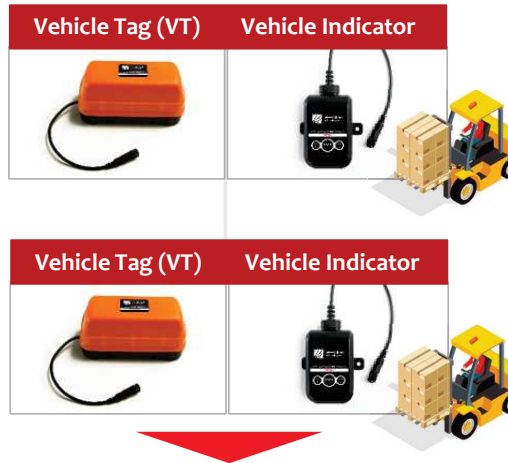To provide a proximity alert to vehicle operators and pedestrians of possible collision.

How
When a pedestrian wearing a PT enters the Warning or Danger range, the VT-indicator sounds "Watch out" or "Danger" message to the vehicle operator repeatedly and the pedestrian gets a vibrational/ beep alarm at the same time.
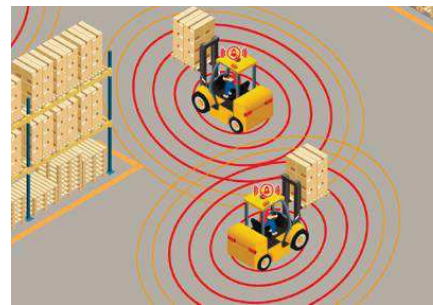
PDS - Vehicle to Vehicle

Vehicle Tag (VT)	Vehicle Indicator

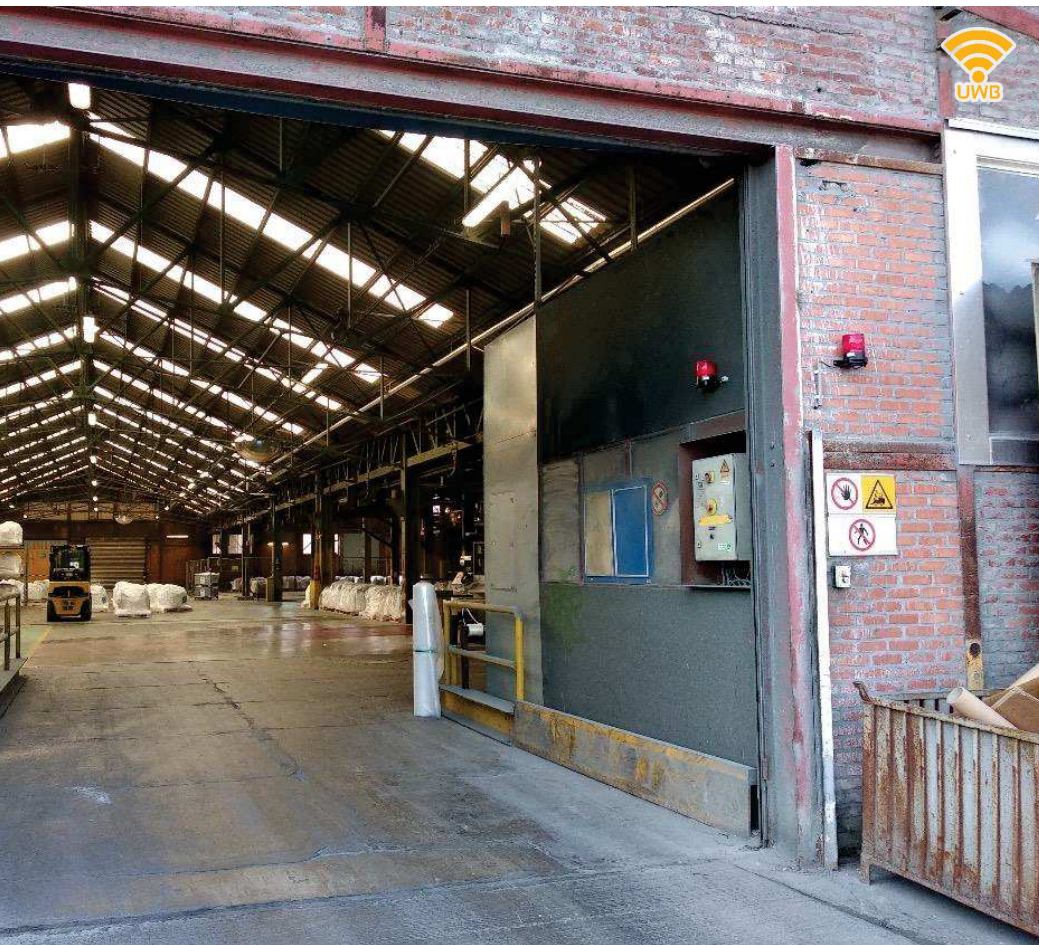| Vehicle Tag (VT)	Vehicle Indicator

Purpose
To provide a proximity alert to vehicle operators and prevent possible collision.

How
When two or more vehicles enter the Warning or Danger range, the VT- indicator in both vehicles sound "Watch out" or "Danger" message repeatedly.
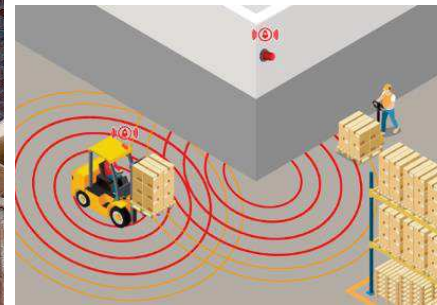
PDS - Blind Spot

Vehicle Tag (VT)   **Vehicle Indicator**

Flashing Zone Tag

Purpose
To detect vehicle in blind areas and provide a visual alert to pedestrians.

How
When a Flashing Zone Beacon is installed at a blind spot, it detects a vehicle outfitted with a VT and signals an alarm to alert pedestrians of approaching hazards.
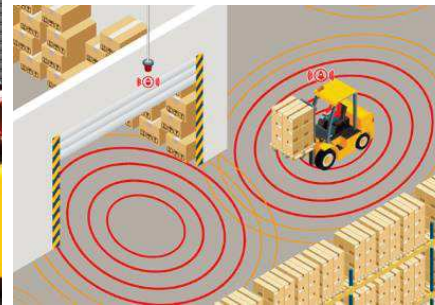
PDS – Intersection Management

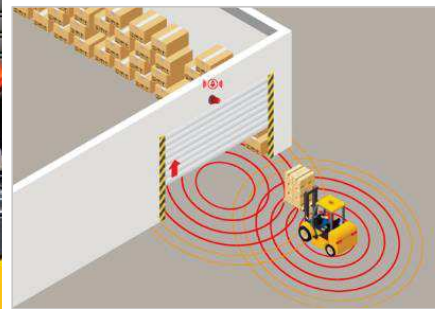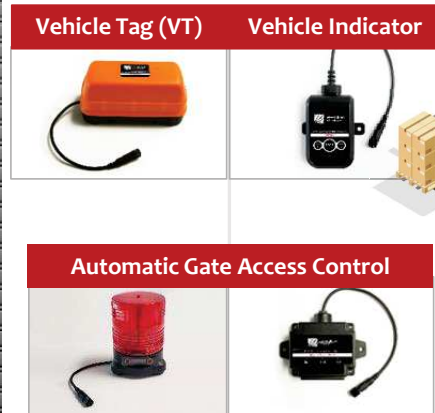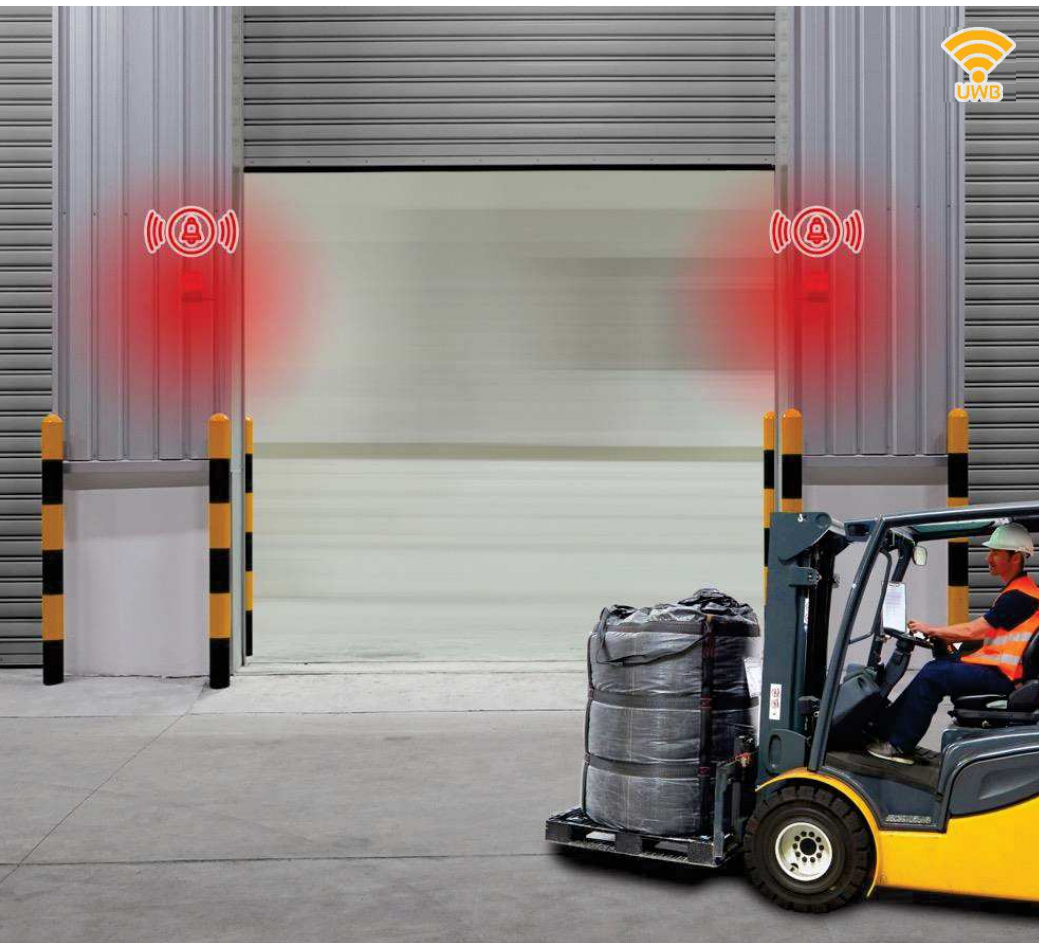**Vehicle Tag (VT)**   **Vehicle Indicator**

Flashing Zone Tag

Purpose
To detect vehicles at intersections and provide a visual alert to pedestrians.

How
When a Flashing Zone Tag is installed at an intersection, it can detect vehicles installed with VTs. It flashes and alerts workers in the vicinity of an approaching hazard.
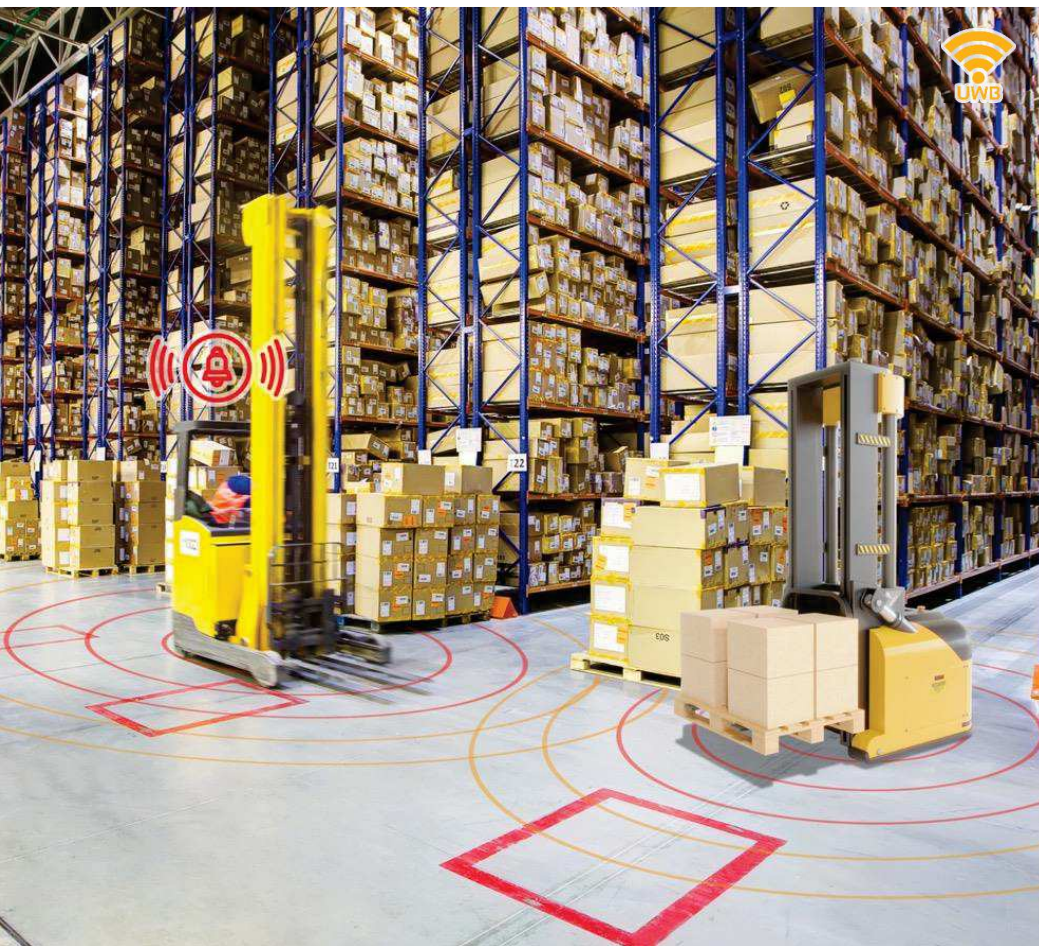
PDS – Automatic Gate Access Control

Vehicle Tag (VT)   **Vehicle Indicator**

Automatic Gate Access Control

Purpose
To control access of only authorized vehicles in access control area.

How
When a Flashing Zone Tag is connected to an External Output Device (EOD) detects a vehicle outfitted with a VT, it signals the Gate Access Controller to open the gate.
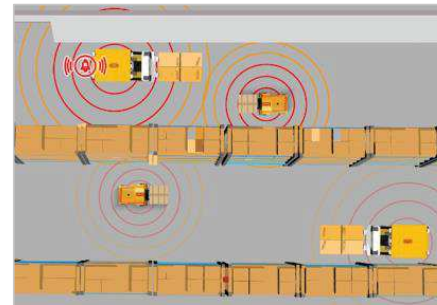
PDS – AGV Anti-Collision

Vehicle Tag (VT)   **Vehicle Indicator**

Vehicle Tag (VT)

Purpose
To prevent collision accidents between AGV (Automated Guided Vehicles) and Forklifts.

How
When an AGV is installed with a VT, forklifts that are also equipped with VTs are able to easily detect the AGV and alert forklift operators of their proximity.

For more information visit us on the web:
safeworker.systems
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