

# SafeEdge

The 360° anti-collision system based on **high-precision real-time** localization technologies.



*Safety by any means*



**SAFETY IMPROVEMENT SYSTEMS**





## Our commitment

**Forklifts are the most dangerous vehicle in industrial environment:** recent studies\* confirm that 57% of accidents involving them caused fatalities or serious injuries, mainly to the detriment of people not driving the vehicle.

**2/3** of forklift accidents cause the **death or injury** of people who are **not** driving the vehicle.

For over 10 years **SIS safety** has been committed to the prevention of workplace accidents with forklifts, with **over 6,000 active installations**, several saved lives and a commitment which continues and wants to grow in the future.

**SIS** safety devices product range is the result of one of the areas of specialization of **Cy.Pag.**, **one of the most important companies in the industrial automation sector.**

Solid foundations in the development of sensors and electronic design, a close-knit team of highly skilled engineers and the appeal to the most advanced technology have allowed rapid growth of the company, which **has established itself as a reliable partner for companies and brands of international level** bringing a significant contribution of innovation in the approach to Safety.

## Track record

**6,000+** devices installed worldwide.

\* INAIL data



# SafeEdge

✓ 360° PROTECTION

✓ PLUG&PLAY

✓ ADVANCED



Based on High frequency **ultra wide band technology**, the most innovative **real-time** localization technologies.

It **protects** against the risk of collisions between vehicles and between vehicle and pedestrian.

A 360° detection makes the maneuvering area and the entire operating space **safer**.

Exploiting the power of UWB technology (Ultra Wide Band), **SafeEdge** can measure either the distance between forklifts or, depending on the end user's specific needs, between trucks and pedestrians, with a frequency up to **100 times per second**. Distance measurement, which is performed via on-board **radar tags** and/or **wearable tags**, reduces the risk of collision in the work area.



## ENTERING THE ALERT AREA

An electric signal is automatically activated on the forklift providing a **warning** (e.g. visual/acoustic activation of alarm devices). The tags worn by pedestrians also warn users about imminent risk through **sounds, lights and vibrations**.

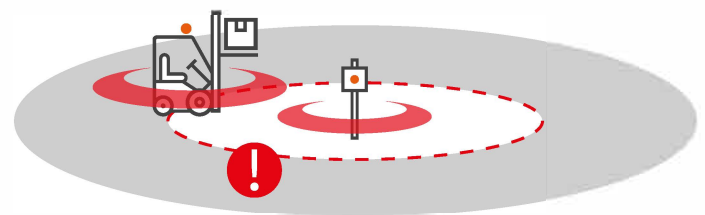


## ENTERING THE ALARM AREA

**SafeEdge**, thanks to its integration system with the forklift, allows intelligent actions such as **as slowing it down\* or activating acoustic/visual warnings**. Truck drivers in the work area are alerted by sounds or vibrations.

## ENTERING THE DESIGNATED AREA (ZONING)

The forklift can be automatically slowed down\* within specific critical areas. **SafeEdge**, installed as fixed element, extends the alarm functions to **pre-defined areas**.





**SafeEdge** is an advanced anti-collision system joining the experience in logistics with that of real-time location technologies and in the goods handling sector.

## 360° PROTECTION

Drastically reduce risk preventing accidents, damages and injuries to people.

## SAFEGUARDING WORK AREAS

Increase safety levels and standards in production both in plants and warehouses.

## SAFE HANDLING

No focus loss for effective logistics.

## ULTRA WIDE BAND TECHNOLOGY

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**SafeEdge** uses **UWB** technology, currently used in high-precision location applications.

## WIDE RANGE DETECTION

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Up to **25 meters**.

## COMPATIBILITY

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Can be used on **different kinds of vehicles, architectural elements** and wearable by **people**.

## 2 OPERATING MODES

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Active\* or passive.

## DEDICATED ASSISTANCE

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Our technical team is always ready to **support** you for installation and configuration.



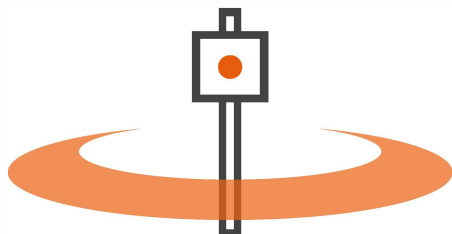
## WEARABLE TAG

to be worn  
by pedestrians



## TRUCK TAG

to be installed  
on vehicles



## ENVIRONMENTAL TAG

to be installed on field  
as fixed element

## OPTIONAL DEVICES

### Visual/Acoustic alert unit

To be installed into the cabin, alerts the driver about distance thresholds overcoming.

### Mounting kit

Brackets kits to fit devices on the truck.



## 1. Truck – Pedestrian

The interaction between truck tags and wearable tags simultaneously being present in the designated areas produces **alert signals to both of them**, increasing the perception of **collision risk**.

Based on the setup, it is also possible to actively intervene on the truck speed\*.



## 2. Truck – Truck

Mutual detection within the designated areas allows the activation of alert signals addressed to operators, that will be aware of the presence of **other vehicles out of sight** or of their approaching from **hidden points**.

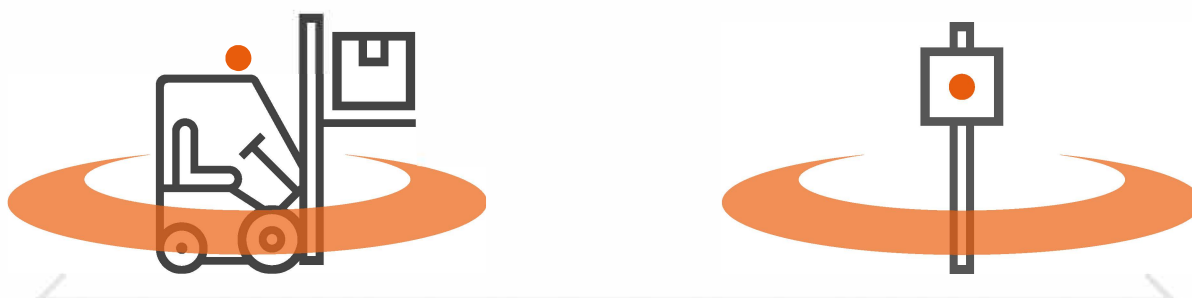
Based on the setup, it is also possible to actively intervene on the truck speed\*.



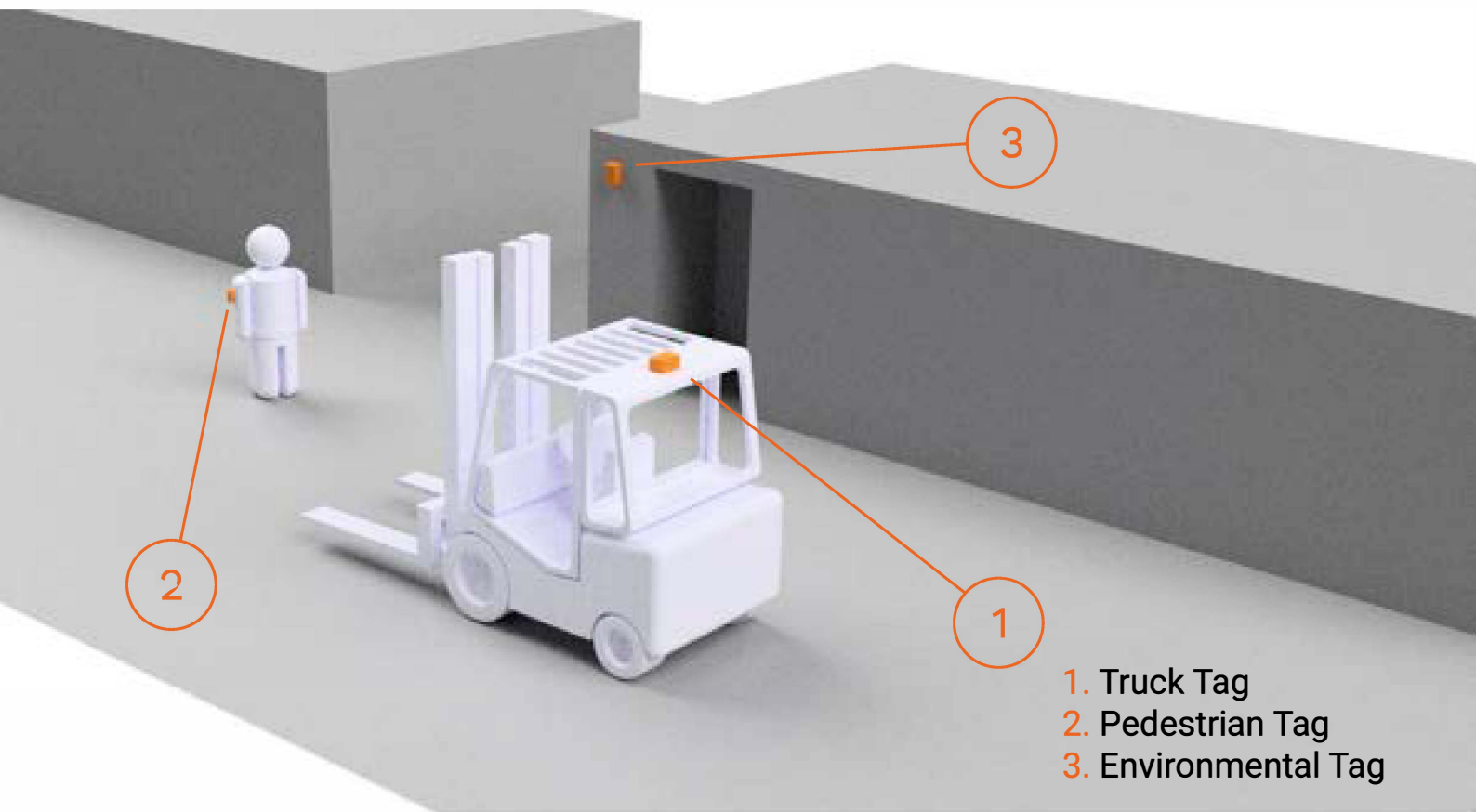
## 3. Truck – Fixed element

The interaction between truck tags and environmental tags enables the possibility to alert operators they are driving within **critical areas** or, at the same way, to alert pedestrians of the presence of a vehicle.

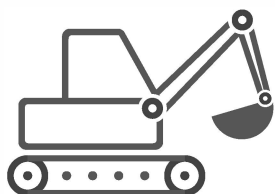
Based on the setup, it is also possible to actively intervene on the truck speed\*.



## ELEMENTS



**SafeEdge** can also be used on excavators, dumpers, wheel loaders and telehandlers.



# Notes



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Kontakt oss:

E-post: [post@utstyrspesialisten.no](mailto:post@utstyrspesialisten.no)

Tlf: +47 919 92 837