

SafeEdge

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



Safety by any means



SAFETY IMPROVEMENT SYSTEMS



SAFETY BY ANY MEANS



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**.

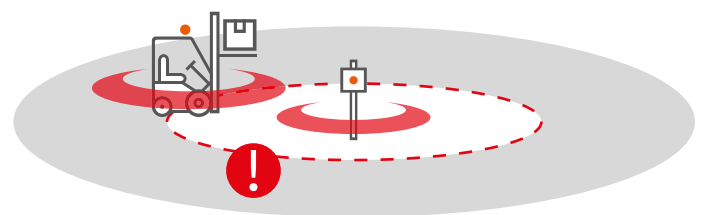


ENTERING THE ALARM AREA

SafeEdge, thanks to its integration system with the forklift, allows intelligent actions such as **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

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

WIDE RANGE DETECTION

Up to **25 meters**.

COMPATIBILITY

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

2 OPERATING MODES

Active* or passive.

DEDICATED ASSISTANCE

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



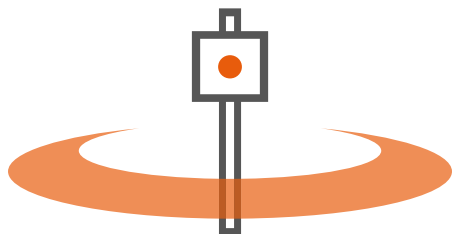
WEARABLE TAG

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.

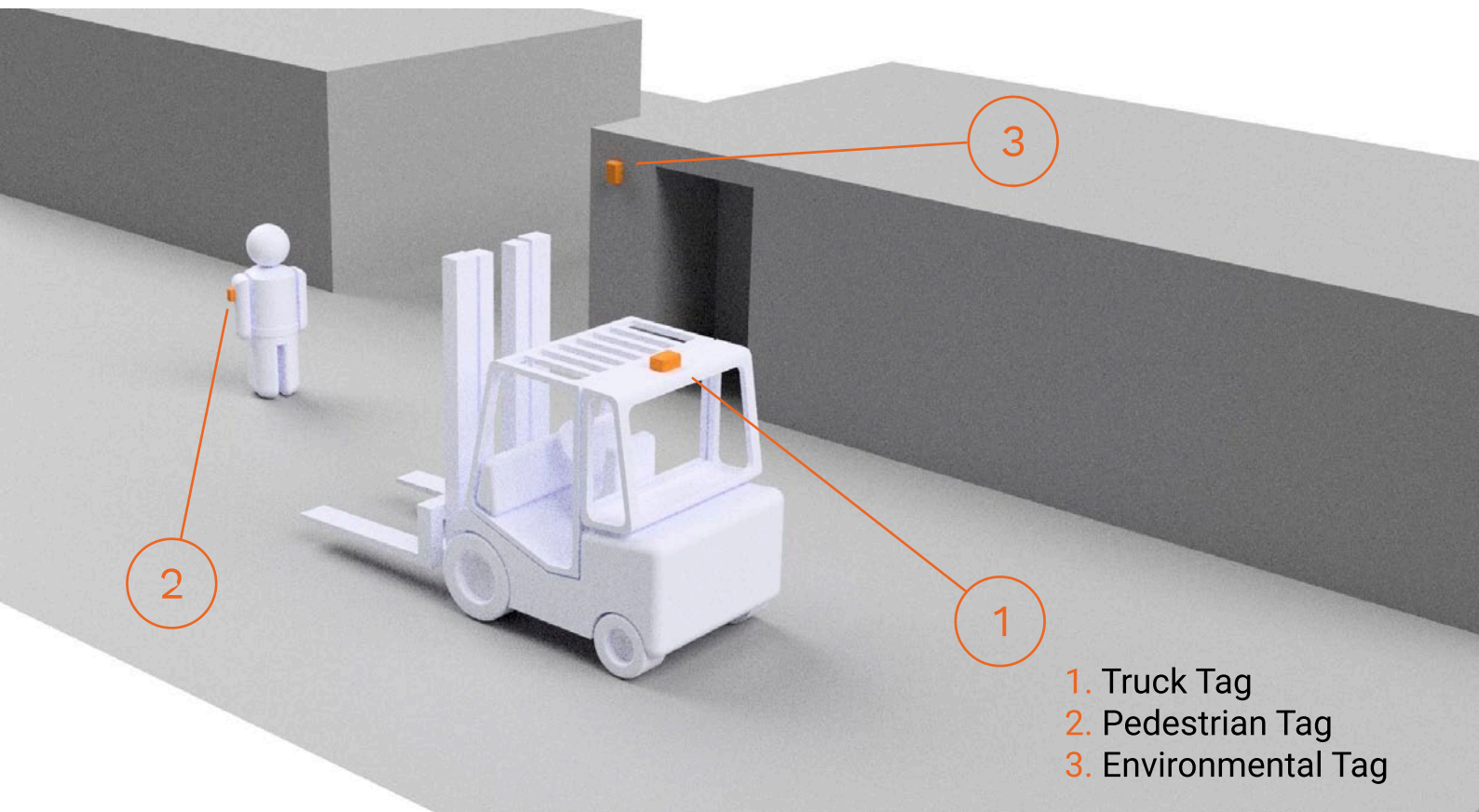
Based on the setup, it is also possible to actively intervene on the truck speed*.



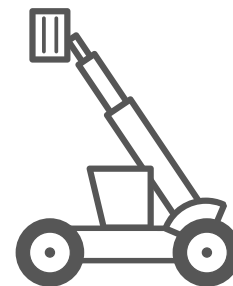
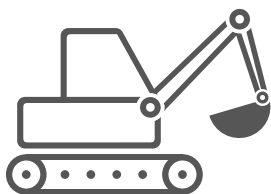
INSTALLATION AND CONFIGURATION

| 8 |

ELEMENTS



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



Notes



A series of horizontal dotted lines for writing, spaced evenly down the page.



SAFETY IMPROVEMENT SYSTEMS

Safety by any means

REV Engineering S.r.l.

Via del Commercio, 13 - Morbegno (SO) - Italy
Phone (+39) 0342 605011 - Fax (+39) 0342 614971

email: info@sis-safety.com
web: www.sis-safety.com