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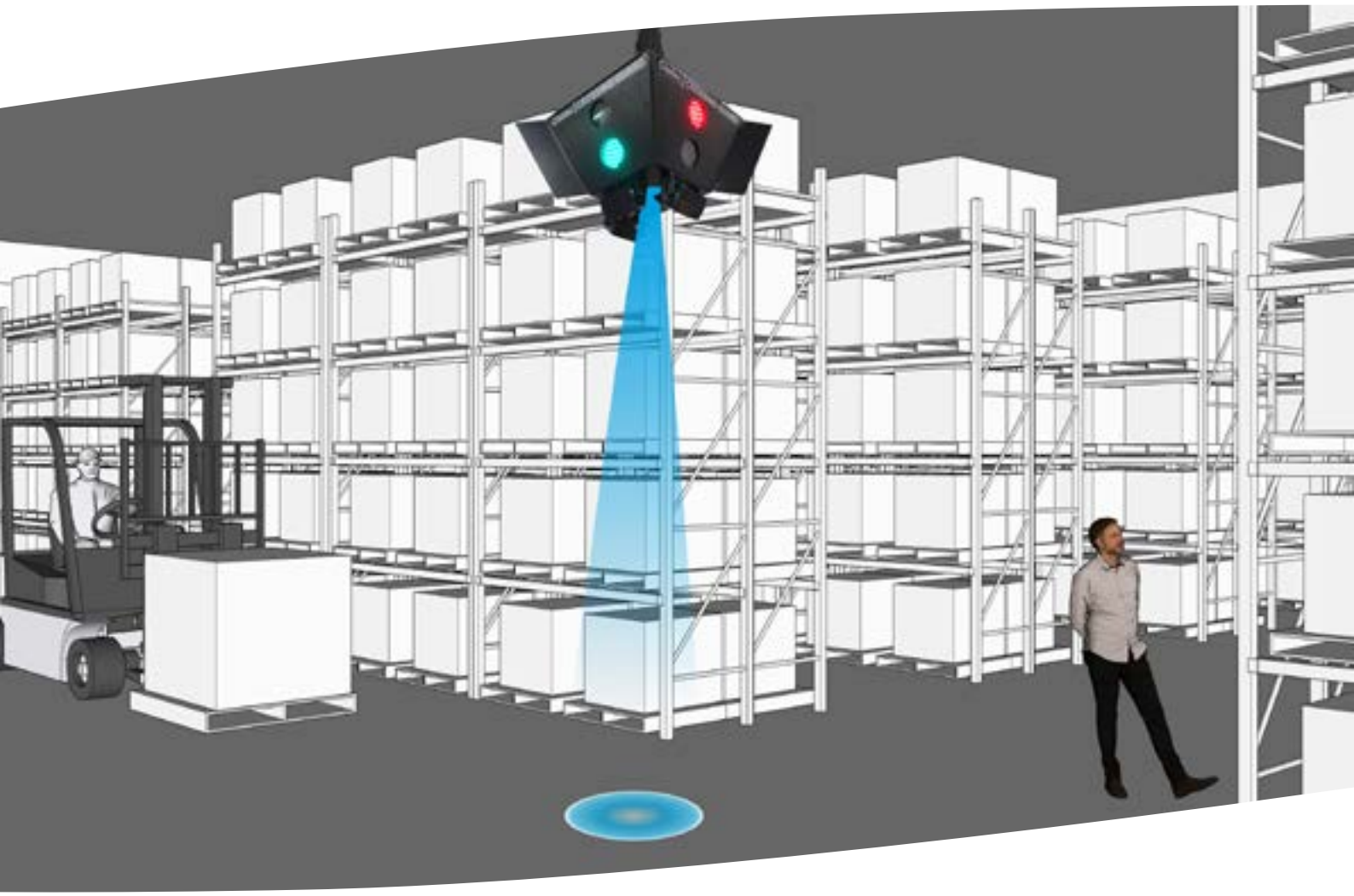
Safety is the new lifestyle!

CROSSING GUARD

WARNING SIGNAL SYSTEM AT INTERSECTIONS



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Solutions to reduce occupational risks at intersections.

Image of the Technology Park of the University of Girona.

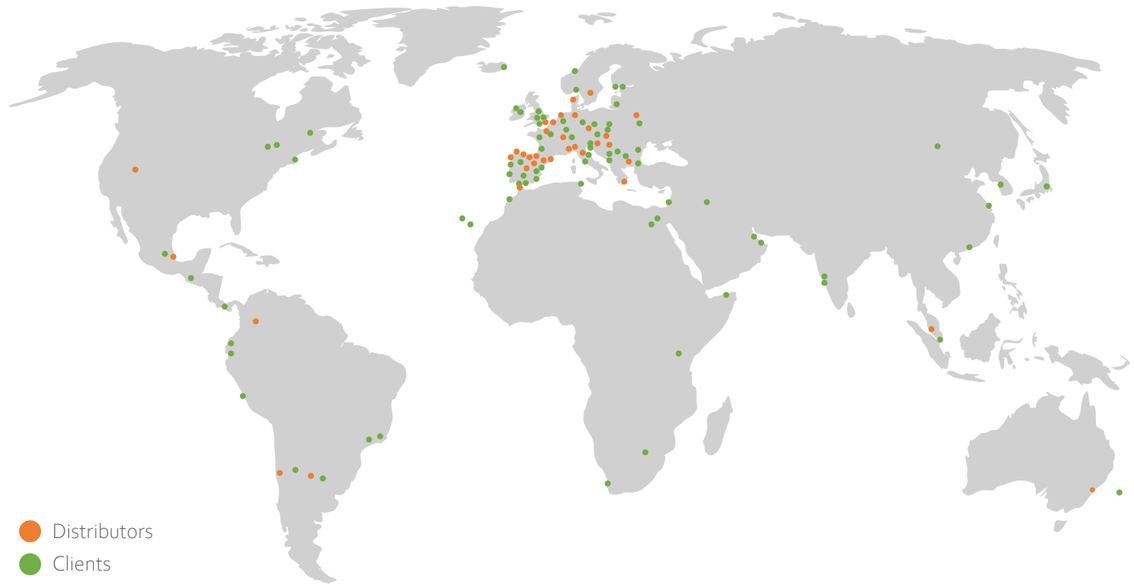
CLAITEC

We are a technology company specialised in the development and integration of **industrial safety and occupational accident prevention solutions**.

Founded in 2013 by a team of engineers with **more than 25 years of experience** in product engineering, the company has grown and consolidated thanks to the effort and dedication of its radio frequency, electronics, and mechanics specialists. Claitec is now part of Troax group.

Thanks to the technological advancements of the last decade and our accumulated experience, Claitec is now able to detect opportunities for improvement that solve occupational risk situations that until today had not been properly resolved, or that still showed high incidence levels.

Claitec also offers **innovative and current products designed to reduce risks and protect the lives of workers** by applying the principles of technological innovation and offering quality products and services tailored to the needs of our customers.



Claitec is currently present in **more than 30 countries**. Thanks to the **more than 7,000 machines** that have had our solutions installed, we have been able to protect **more than 30,000 people**.

WHAT IS THE CROSSING GUARD?

Any industrial space with a high volume of traffic of vehicles and pedestrians is prone to dangerous accidents and risky situations.

The Crossing Guard system has been developed to minimise the danger of collision at intersections in warehouses or other industrial spaces, and to create safer and more efficient work environments.

The Crossing Guard protects operators and forklift drivers by means of visual alerts. It uses radar technology to differentiate between persons and vehicles, and to detect if forklifts are approaching or leaving an intersection.

It can be easily complemented with other safety systems.

ADVANTAGES

- Capable of differentiating between vehicles and people.
- Mounting height from 3 to 7 meters.
- Maximum detection speed of 25km/h for vehicles.
- It is not necessary to carry a device to be detected.
- Easily complements other safety systems.
- Easy handling at height.
- Robust aluminium structure.
- Configuration with remote control.

HOW DOES IT WORK?

The Crossing Guard hangs at a height of between 3 to 7 metres over warehouse intersections, warning of a risk with its traffic light and visual warning projections on the ground.

The Crossing Guard detects a person approaching an intersection and immediately projects a blue light signal - called a Bluespot - to warn of the pedestrian's presence. It can also be configured so that instead of the Bluespot signal, it projects another visual warning signal - for example, a pedestrian warning triangle, using the VAS system.

On the other hand, if a forklift approaches the intersection, it will be detected by the Crossing Guard and turn the green or red light of the traffic light on to indicate the driver whether it has permission to cross or not, thus preventing a collision and contributing to a creating a safer workplace.

OTHER FUNCTIONALITIES

On request, the Crossing Guard can also be purchased with external outputs that activate a pedestrian gate, or with external signalling accessories.

The Crossing Guard device can be configured to give priority to one direction.

AREAS OF APPLICATION

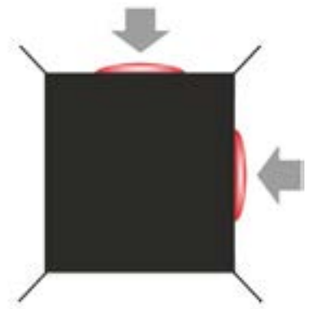
The Crossing Guard system can be used in the following situations:

- In spaces with high traffic volume of forklifts and pedestrians.
- At intersections with traffic of both pedestrians and forklifts.
- In poor visibility areas.
- At loading docks.
- In industrial spaces with unsafe intersections.

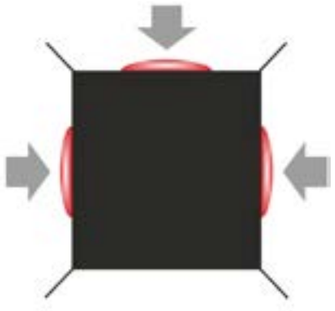
SYSTEM'S COMPONENTS

The **Crossing Guard** uses radar technology which allows it to clearly differentiate persons from forklifts, and to determine whether a forklift is approaching the intersection or moving away from it.

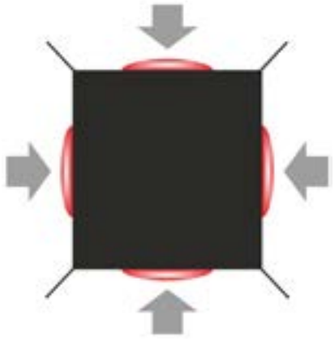
With the Crossing Guard neither operators nor vehicles need to carry a device to be detected. Instead, the system can locate them on its own. In addition, the Crossing Guard also features a **finned separation design** so that no more than one traffic light is visible from each angle, thus creating no confusion.



Two sides with traffic lights



Three sides with traffic lights



Four sides with traffic lights

PNC00603

The **radar** motion detector has been specially designed to be used at intersections.
It ensures optimal traffic flow thanks to the reliable and intelligent activation of the Crossing Guard.

* This item may be sold separately.

Traffic light

Crossing Guard

Radar Crossing Guard

ACCESSORIES

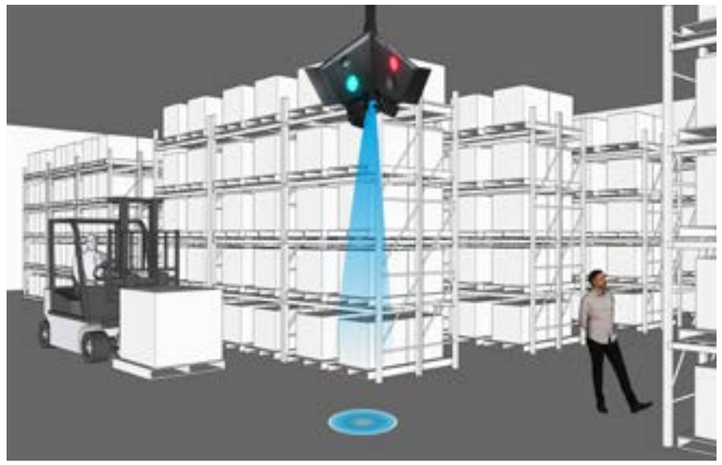
PNC00780

The Crossing Guard, ready to be hung by **tensioners** or by means of a support with **VESA standard holes**.

The **remote control** allows the Radar Crossing Guard to be programmed easily and conveniently from the ground.

The data transfer between the remote control and the Crossing Guard radar occurs in both directions - i.e., to and from the sensor -, via an infrared interface.

PNC00758

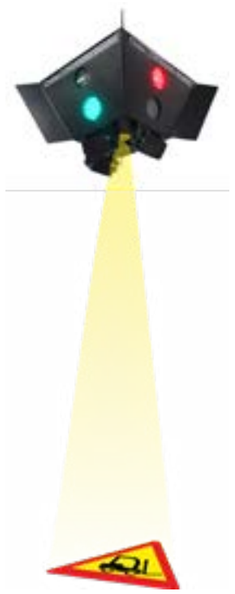


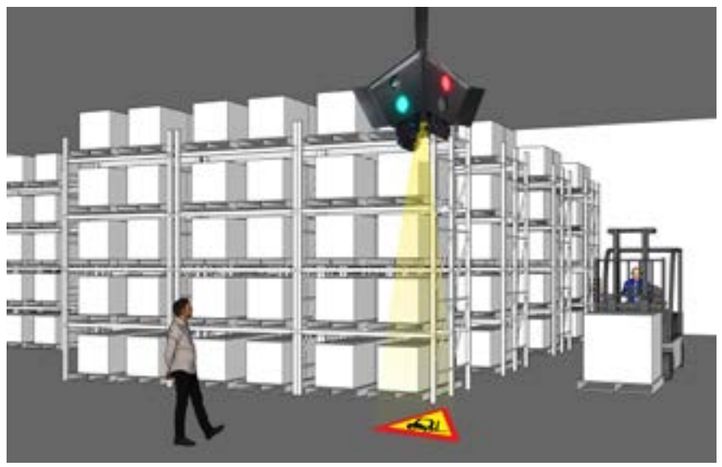
Model with Bluespot

PNC00580 Crossing Guard 2S (2 sides with traffic lights)

PNC00579 Crossing Guard 3S (3 sides with traffic lights)

PNC00578 Crossing Guard 4S (4 sides with traffic lights)





Model with VAS System

PNC00583 Crossing Guard V2S (2 sides with traffic lights)

PNC00582 Crossing Guard V3S (3 sides with traffic lights)

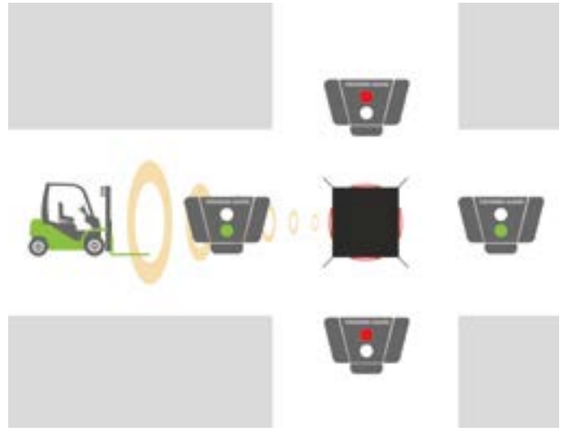
PNC00581 Crossing Guard V4S (4 sides with traffic lights)

OPERATING EXAMPLES

In the first case, a worker is approaching the intersection. The Crossing Guard system detects him, and it projects the Bluespot signal to warn those around him of the presence of a pedestrian.

The traffic light is off because the Crossing Guard does not detect any vehicle at this time.

In the second case, the Crossing Guard detects a forklift approaching the intersection. This turns the traffic lights green, giving priority to the approaching forklift and notifying the other aisles of the intersection with a red light that they are not allowed to circulate. This way, the Crossing Guard guarantees the safety of everyone involved and prevents possible collisions.



In the third case, the Crossing Guard has been configured to project a forklift alert signal using the VAS system. This way, when the Crossing Guard detects a person, it warns them of the presence of a forklift in his or her proximity.

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