

ERGOMAT.COM



2025

Safety Sensors & Warning Systems

Signal Potential Danger
Avoid Costly Accidents
Protect Personnel & Products

Pedestrian Detection

Avoid dangerous collisions between pedestrians and vehicles.

Wireless Pedestrian Sensor **extended battery life & magnetic base.**



The Ergomat Wireless Pedestrian Sensor tailored for warehouses and manufacturing facilities, optimizes safety and efficiency. Engineered with state-of-the-art technology, these sensors eliminate the necessity for expensive power drops, ensuring a cost-effective solution for installation and maintenance. With a magnetic mounting chassis, the sensor adapts to various environments, delivering a flexible installation and a precise safety solution for any warehouse or manufacturing facility.



Pros:

- **No Power Drop for the PIR Sensor**
- Longer lasting battery life (3 years)
- Sensor can rotate for different applications
- Sensor can be installed above doors, end of racking aisles, hallways, etc.

Wireless Pedestrian Sensor Combo

Includes:

- Wireless Pedestrian Sensor
- 24"x 24" Double-sided LED Safety Sign
- 1 Two Output Wireless receiver*
- 6 amp power supply & 10' (3M) Extension Cord

* 2nd output can be used for another device such as an audible alarm.



Pedestrian Detection

Avoid dangerous collisions between pedestrians and vehicles.

IQSENSOR & Signaling Safety Light

▶ Watch Product Video



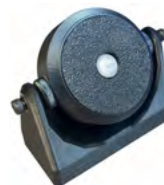
Blind Intersection Protection: IQSensor is designed to warn of possible collisions at blind intersections and narrow corridor intersections. IQSensor & Signaling Safety Light installs via magnet to any flat surface.

1. Pedestrian crosses path of IQSensor Triggering Signaling Light

2. Signaling Light Warns of Incoming Traffic

Includes:

- IQSensor
- Powered Signaling Safety Light w/ Audible Alarm
- 15m Connection Cable (from sensor to safety light)



Also Available as a directional sensor

Directional Sensor **does not** activate signaling light when pedestrian is entering aisle. Eliminates false positive intersection alerts.

Pedestrian Detection

Avoid dangerous collisions between pedestrians and vehicles.

IQSensor & Safety Sign



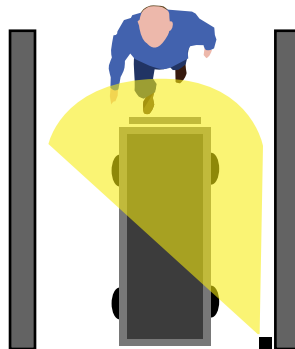
Blind Intersection Protection: IQSensor is designed to warn of possible collisions at blind intersections and narrow corridor intersections. IQSensor & Safety Sign installs via magnet to any flat surface or can be hung by provided holes

1. Pedestrian crosses path of IQSensor Triggering Signaling Light

2. Safety Sign Warns of Incoming Traffic

Includes:

- IQSensor
- 12inch Powered Signaling Safety Sign w/ Audible Alarm
- 15m Connection Cable (from sensor to safety sign)



IQSensor

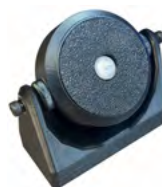


Signaling Safety Sign w/ audible alarm



Also Available as a directional sensor

Directional Sensor **does not** activate safety sign when pedestrian is entering aisle. Eliminates false positive intersection alerts.



Pedestrian Detection

Avoid dangerous collisions between pedestrians and vehicles.

IQMat & LED Safety Sign

This Pressure Sensitive Mat is the next evolution of safety matting. Paired with our innovative LED Safety Signs, pressure on IQ Mat will activate our safety system using Ergomat's proprietary technology. The mat can be customized with safety messaging and full color graphics.

The **IQMat** comes in one profile; Infinity Deluxe 2'x 3' (60 x 90cm).

Extended Battery Life:

- Using kinetic energy allows the unit to remain in sleep mode using little to no power until energized. Transmitter has a battery life which will last for years without replacement, due to remaining mostly in sleep-mode.
- Mat sends signal to paired device (LED SIGN) and goes back into sleep mode.

Includes:

- Wireless **IQMat**
- 24"x 24" Double-sided LED Safety Sign
- 1 Wireless receiver
- 6 amp power supply & 10' (3M) Extension Cord



1. Pedestrian applies pressure to IQMat. The IQMat activates the safety system.

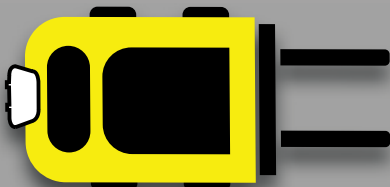


IQMat

2. Flashing warning system warns pedestrians / vehicles of incoming pedestrian traffic.



LED Safety Sign



Pedestrian Detection

Avoid dangerous collisions between pedestrians and vehicles.

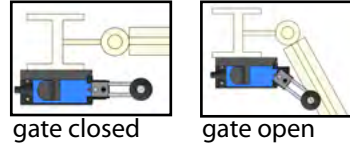
RF Safety Switches & LED Safety Sign

Installation flexibility comes from the fact that the **RF Safety Switches require no electrical power**, eliminating thousands of dollars in installation expenses. One switch signal can activate individual or multiple signs, and multiple switches can be programmed to activate a single sign, protecting pedestrians arriving at a busy intersection from different directions.

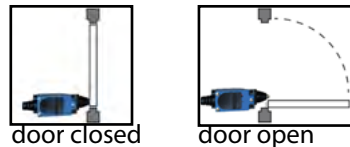
Monitor a **Door, Safety Gate** or Use a **Push Button** to monitor an intersection with no gates or doors.



Gate Switch RF Switch for retro fitting to your safety gate. When the switch is activated it will wirelessly turn on an Ergomat LED Safety Sign.

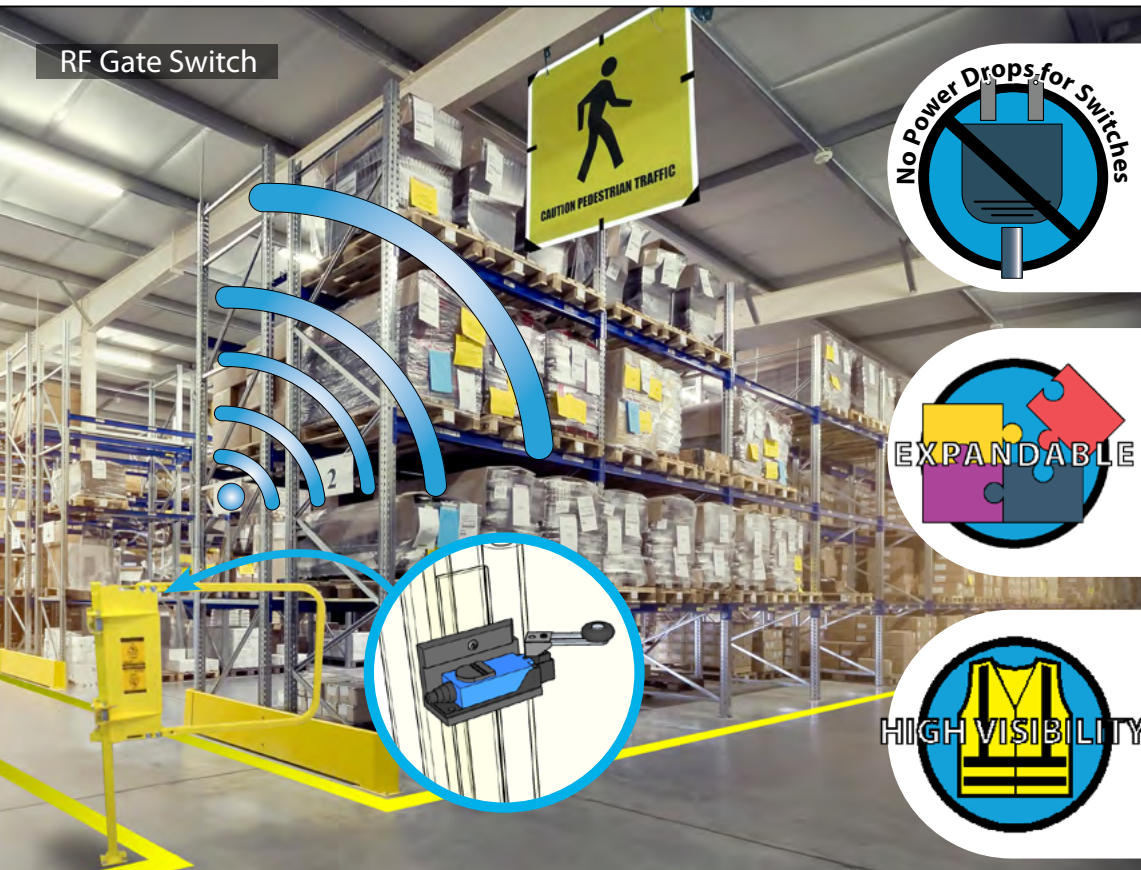


Door Switch Fixate the switch to a door frame to monitor opening and closing of the door. When the door opens switch is activated & wirelessly turns on an Ergomat LED Safety Sign.



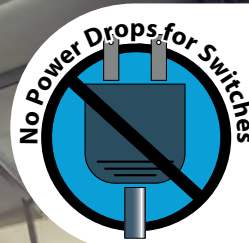
Push Button Can be located anywhere in your facility. When the switch is initiated it will activate a caution pedestrian LED Safety Sign warning of pedestrian entering traffic aisle.

RF Gate Switch



Features

All RF Switches & Push Buttons are powered by a replaceable coin cell battery w/ a 3yr life span. **No Power drops needed for RF switches.**



Add multiple RF Push Buttons to your safety sensor & LED sign combo to expand upon your safety needs.



LED Safety Signs are wrapped with high visibility LED strips that can be programmed to flash at several different intervals or stay on for a determined amount of time.



Forklift Pedestrian Recognition System with Blue Light & Alarm

The Ergomat **IQ Blue Light & Alarm** responds to **people only**. When a person is detected the blue line will turn to a flashing red line and trigger an audible alarm to alert pedestrians of a potential collision. Range can be adjusted by tilting the sensor.

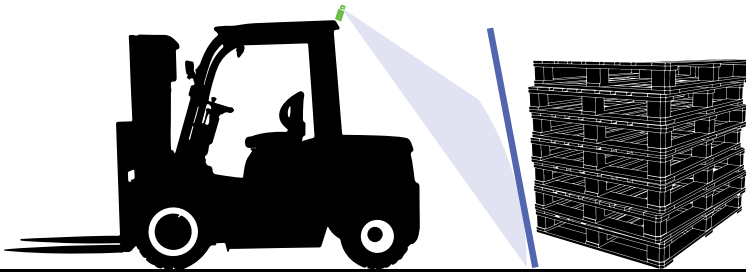
▶ Watch Product Video



Dual Warning System: Standard blue lights rely on only the blue light to protect against collisions.

Visual warning: When pedestrian is detected the blue line will turn to a flashing red line.

Audible warning: When pedestrian is detected sensor triggers an audible alarm.



No Pedestrian detected: Line light remains blue



Pedestrian detected: Line light turns flashing red & audible alarm is triggered.



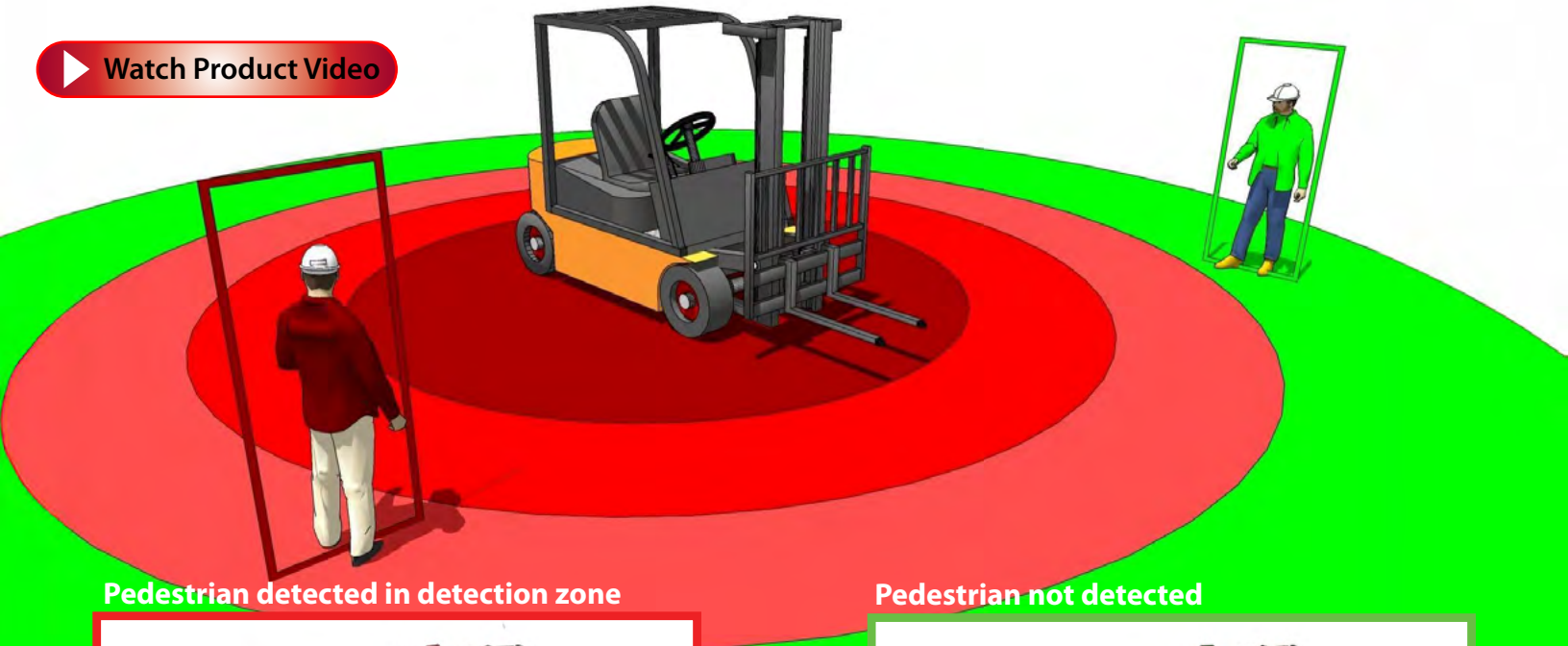
Pedestrian Detection

Avoid dangerous collisions between pedestrians and vehicles.

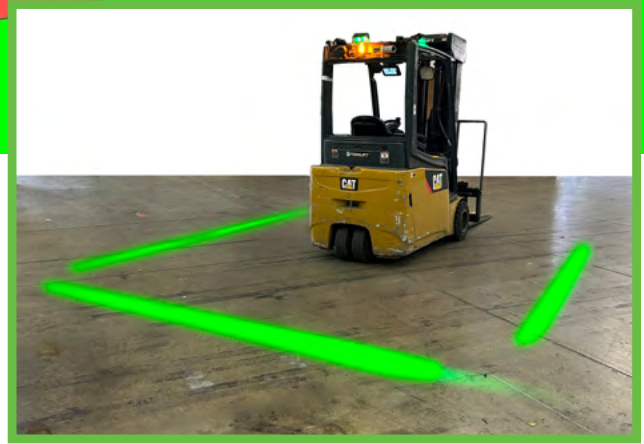
Forklift Human Recognition System

Is an advanced forklift system to prevent accidents by recognizing human shapes. When a pedestrian is detected in a "danger zone" line lights turn from green to red, and an audible alarm will sound. The system looks for the outline of humans to prevent potential collisions with moving vehicles.

▶ Watch Product Video



In cab display highlights pedestrian



System Includes

4 Mounted Cameras



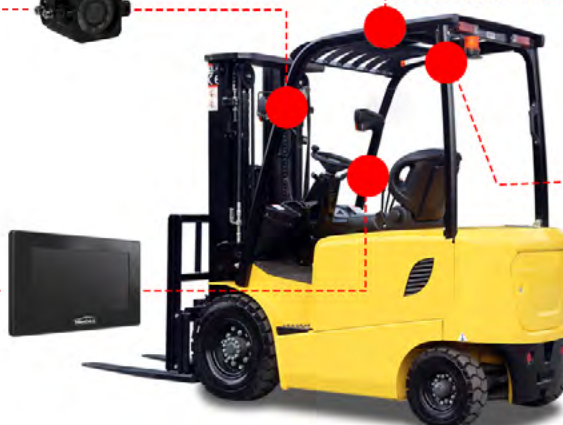
3 Projected Line Lights



1 Audible Alarm



1 Touch Screen Monitor



www.ergomat.com - info@ergomat.com

North & South America: +1-440-282-4651 | English (EU): + 44 3308 280 084 | Swedish: + 46 42 16 36 00 | German: + 49 9542 30 367-50 | French: + 33 1 446 410 28

Polish: + 48 656 97 45

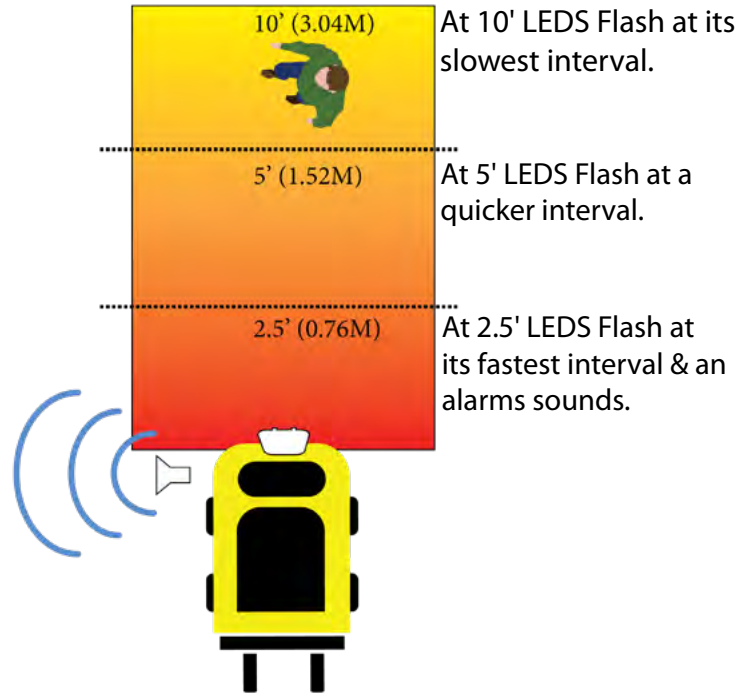
Forklift Collision Sensor (180° Lidar Sensor)

The Ergomat Forklift Collision Sensor is used on a forklift to protect against potential collisions with other vehicles, pedestrians, or stationary objects. Once activated, the sensor will trigger a flashing light visual cue that increases frequency when sensor draws closer to obstruction. An audible alarm is triggered once the obstruction is within 2.5' (0.76M). The sensor is powered by the forklift power supply, and should be installed on the rear end of the forklift.



System Includes

- 1 Forklift Collision Sensor (180° Lidar Sensor)
- Integrated magnetic chassis
- 3 LED Light Pods & Cable
- Powered by Vehicle power supply.



Horizontal Sensor Application

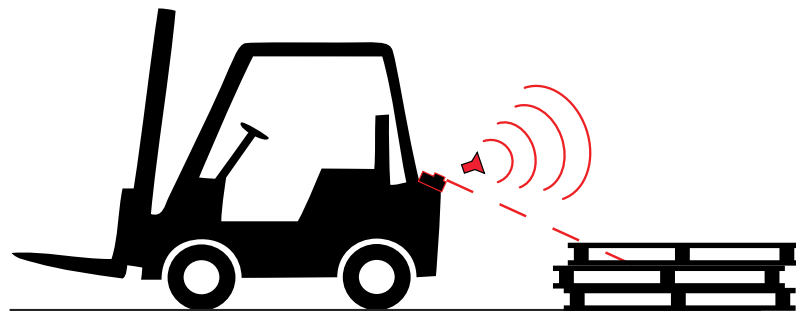
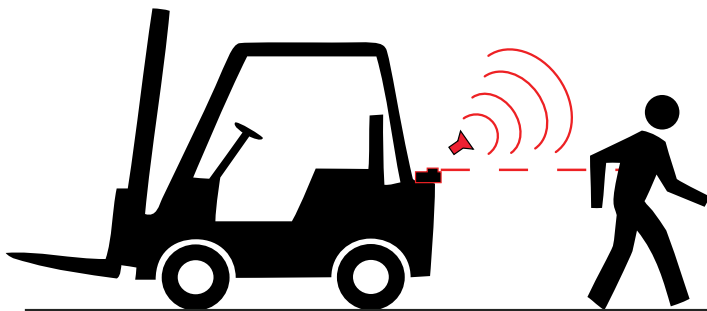
Integrated metal plate for horizontal install direct to forklift

sensor
forklift

Floor Sweeping Sensor Application

Angled installation required (customer supplies angled brackets)

sensor
forklift



Benefits

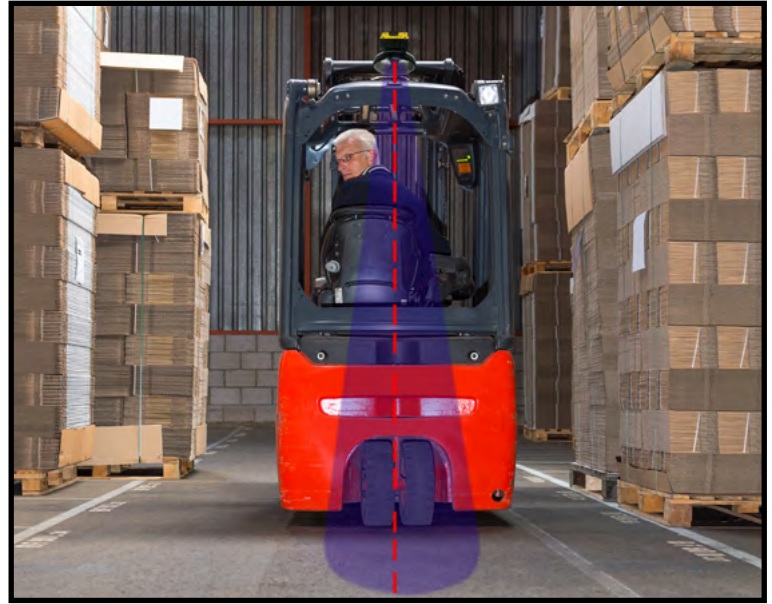
- Can be adjusted in length and width: Right Distance, Left Distance and Forward Distance (set in factory per project)
- Finds everything that passes in its field of view: Objects, Vehicles and Pedestrians
- Comes with earth magnets for an easy installation on Forklift. (can also be mounted on metallic brackets – bracket not included)

Pedestrian Detection

Avoid dangerous collisions between pedestrians and vehicles.

Audible Add-On Sensor for Forklift Blue Lights

The Audible Add-On Sensor is designed as a retrofit sensor that attaches to forklift blue lights. The sensor is positioned at the same angle as the blue light and will pick up any pedestrians or other obstructions in front of the blue light. When sensor is activated, an audible warning is triggered, warning of potential collisions.



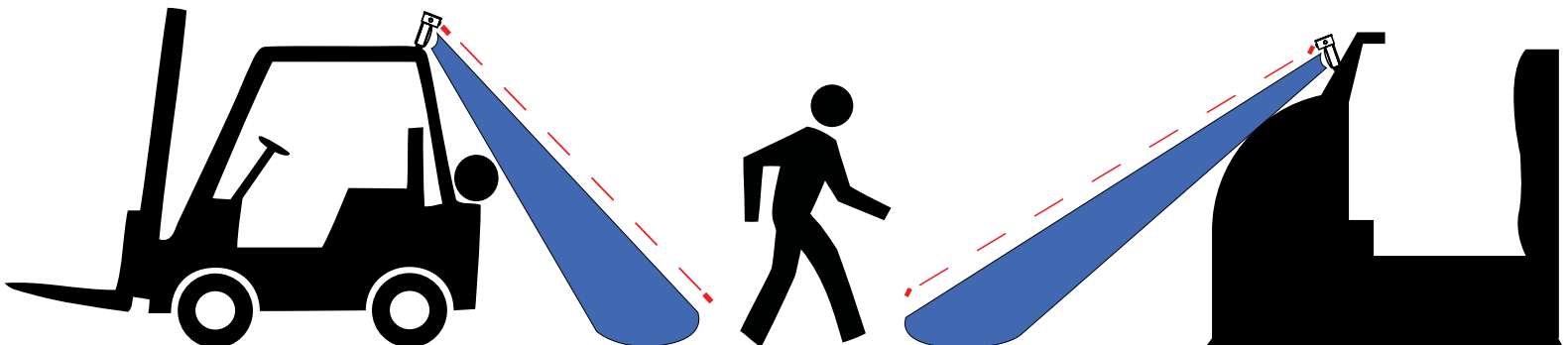
Make your blue forklift or tugger spot light more effective with a sensor that delivers an audible warning of obstructions in travel path.



Built in audible alarm triggers when sensor beam is broken.

Adjustable sensor for detecting impending obstacles and collisions.

Audible Sensor for blue spot can mount on oval style blue light. Attachments are available to mount on other style blue lights.



Pedestrian & Vehicle Detection

Avoid dangerous collisions on your facility floor.

In & Out Sensor for Pedestrians & Forklifts.

The Ergomat In & Out Sensor has been **designed to eliminate false positives** by knowing if the pedestrian or vehicle is entering the dangerous intersection or leaving from it. The Ergomat In & Out sensor comes in two versions. The Pedestrian In & Out sensor and the XL In & Out sensor for vehicles.



Benefits

- Less false positives (no white noise)
- Only warns when approaching danger
- Extremely reliable

Pedestrian In & Out Sensor

Range: 4.5' - 8' (1.3M - 2.4M)



1. Directional Sensor senses pedestrian / forklift only when pedestrian / forklift is approaching drive aisle.

2. LED Caution Pedestrian Sign flashes & alerts vehicle in drive aisle of incoming pedestrian traffic.



Vehicle In & Out Sensor

Range: up to 30' (9M)



Drive Aisle

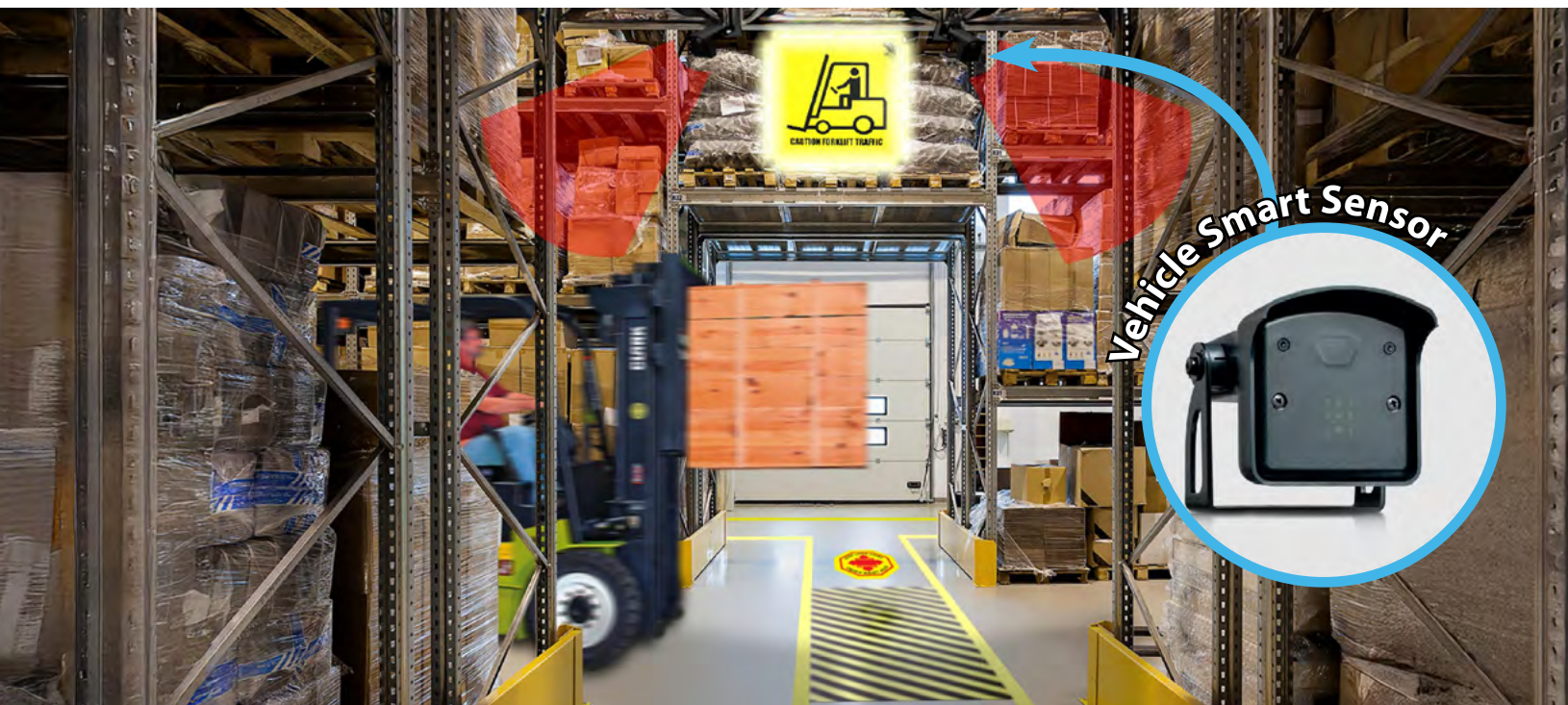
3. Directional Sensor does not activate LED sign when pedestrian / forklift is leaving drive aisle intersection, eliminating false positive intersection alerts.

Vehicle Detection

Avoid dangerous collisions between vehicles & pedestrians in your facility floor.

Vehicle Smart Sensor & LED Safety Sign

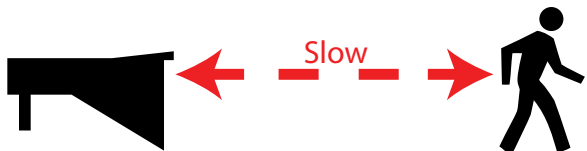
The Ergomat Vehicle Smart Sensor is designed to detect vehicle traffic approaching sensor in indoor and outdoor industrial applications. The sensor is capable of providing pedestrian and parallel traffic rejection, reducing unwanted detections. **Can be programmed to only find vehicles (excludes moving pedestrians)**



Only finds Vehicles! Uses Time of Flight Technology!

Bounce Back Slow, No Vehicle Detected

Bounce Back Fast, Vehicle Detected



Vehicle Smart Sensor w/ Stop & Go LED Safety Sign

To detect moving vehicles and warn pedestrians of dangerous intersections. GO Sign is always ON until vehicle is approaching intersection When a Vehicle is found = RED STOP is illuminated.

▶ Watch Product Video



Vehicle Smart Sensor



GO (white text on green background), bottom part of the sign.

STOP (white text on red background), top part of the sign.

Only finds vehicles!

Motion and "Bounce Back" allows sensor to pick up vehicles vs humans.

12" x 24" Single Sided
STOP / GO LED Safety Sign

Vehicle Detection

Avoid dangerous collisions between vehicles & pedestrians in your facility floor.

Occupancy Sensors for Low Overhead & Light Curtain

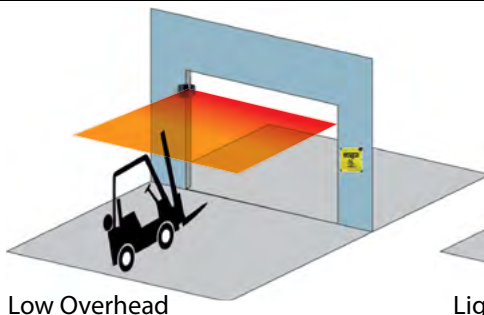
The Ergomat Low Overhead Sensor was created to prevent moving equipment from colliding with low overhead obstructions in fields up to 80' x 80'. Detects anything in its detection zone.

2 Adjustable Warning Zones:

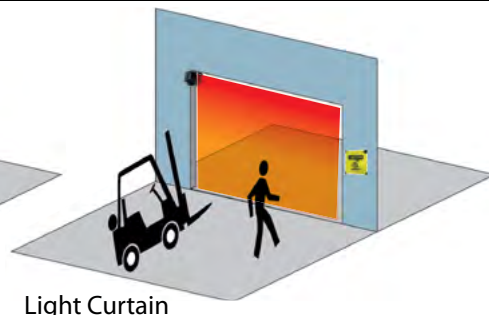
Zone 1: LED Sign Flashes & Audible Alarm is triggered

Zone 2: Flashing LED Sign is triggered

2 Applications:



Low Overhead



Light Curtain

System Includes • Occupancy Sensor • Remote • Transmitter • Power Supplies (2amp & 5 amp) • LED Sign 12" or 24" (30cm or 60cm)



XL Sensor

Mini Sensor

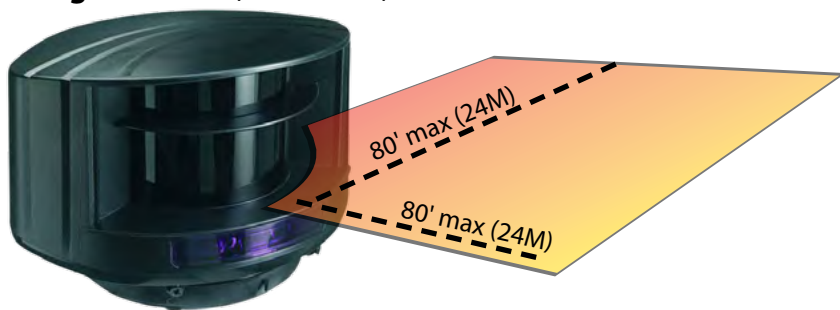


12" or 24" LED Signs



Occupancy Sensor XL

Range: 80' x 80' (24M - 24M)

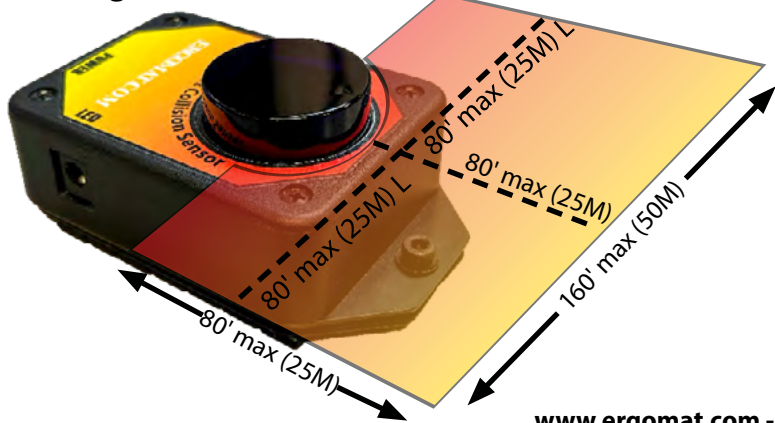


Features

- NEMA 4 rated enclosure (indoor/outdoor)
- Large sensor field
- Detection fields are highly configurable
- For activation and presence detection
- Ability to detect or ignore pedestrian traffic
- Uses time of flight ranging technology

Occupancy Sensor Compact

Range: 80' x 160' (50M - 50M)

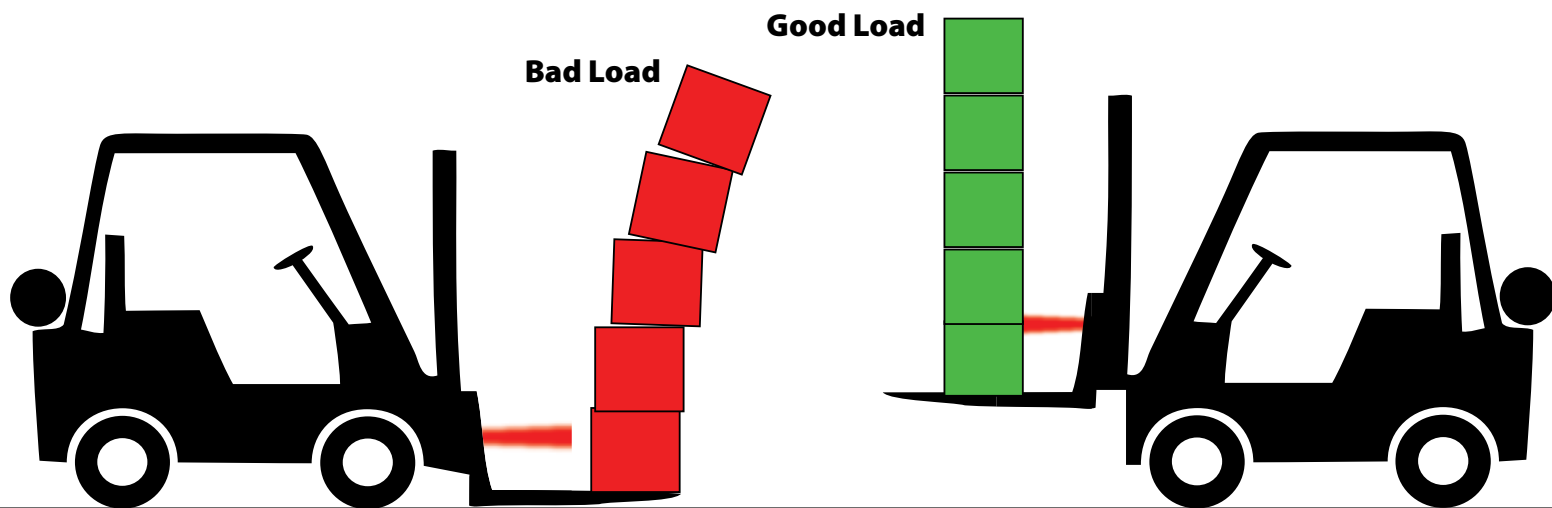


Features

- Indoor applications
- Flame resistant enclosure
- 360° Sensor Field
- For activation and presence detection
- Uses time of flight ranging technology
- Works in strongly lit environments

Forklift Load Sensor w/ Fork Alignment Laser

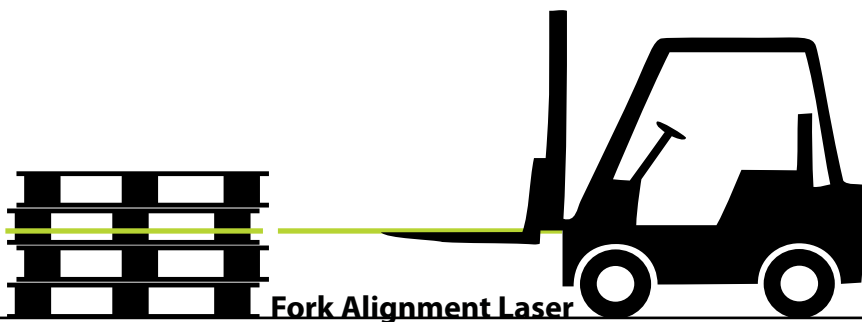
The ERGOMAT Forklift load sensor keeps forks from lifting until load is situated within 6" of the mast to avoid tipping. The sensor defeats power to the lift any time it detects a load that is less than 4' and more than 6" from the mast on our standard unit. These parameters can be adjusted at the factory for special applications, but can not be altered in the field.



Features:

- Protects against forklift load drops
- Indoor applications. Works in heavily lit areas.
- Runs off of forklift power
- Laser indicates position of forks relative to load
- Easy installation
- Flame resistant enclosure

Forklift Load Sensor w/ Fork Alignment Laser



Forks are higher than pallet pass throughs.

Forks are even with pallet pass throughs.



Image & Line Safety Projectors

Virtual Sign Gobo Projectors boost safety by replacing traditional painted or taped signs or aisle ways with clear, projected visuals. They're perfect for low- or bright-light areas, high-traffic zones, high-risk sections, and tough environments. Paired with our proprietary sensor technology, these projectors form a comprehensive safety solution for warehouses, production facilities, and industrial settings.

Gobo Projector

Caution, Stop, Yield, Slow, Forklift, Crosswalk, Walkway, Restricted Area, and other safety gobos provide the signage essential in industrial environments.

Line Projector

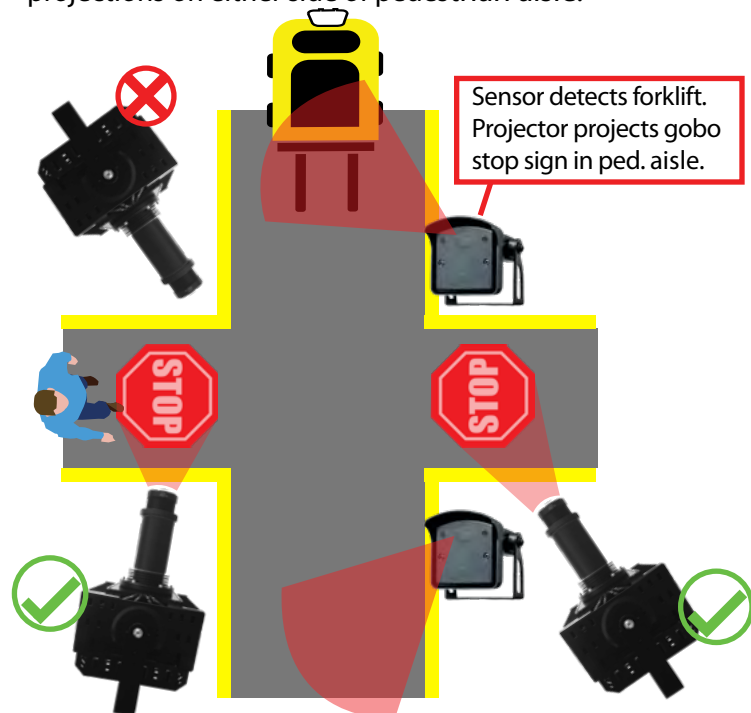
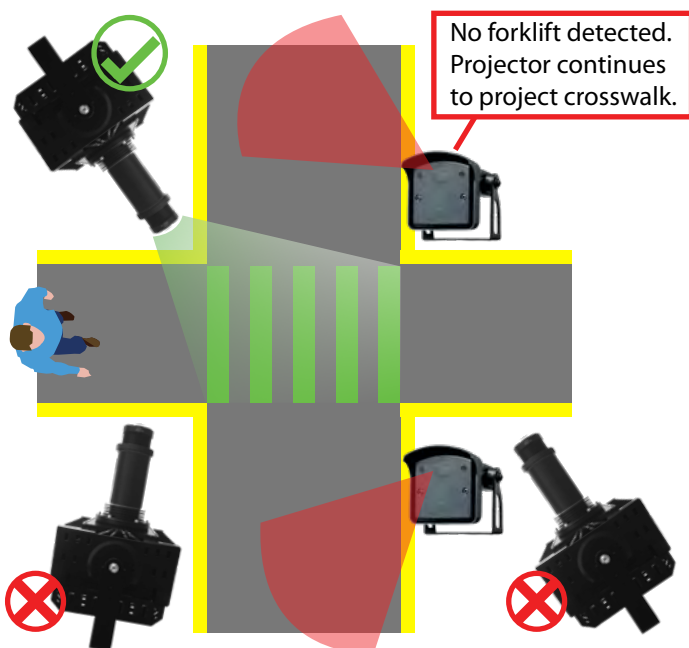
Virtual line lasers eliminate tape and floor paint maintenance, creating an indestructible floor line in industrial environments. Red, green, blue, & yellow colors available, perfect when used in conjunction with virtual signs.



Finds Forklifts and Alerts Pedestrians: 2 Vehicle Smart Sensors, 3 Gobo Projectors.

Forklift not detected in drive aisle. Projector continuously projects gobo of pedestrian crosswalk.

Forklift detected by sensor. Sensors deactivates pedestrian crosswalk gobo projection and activates stop sign gobo projections on either side of pedestrian aisle.



Warning Systems

Avoid dangerous collisions between vehicles & pedestrians in your facility floor.

LED Safety Signs, Audible Alarms & Alarm Lights

Enlightened safety messaging and audible alarms for dangerous intersections, pedestrian & vehicle aisles, low overhead & entry and exit ways.



LED Safety Signs (single, double sided & 4 sided cubes)

Standard Graphic Options (fully custom graphics are available upon request)



Option 1



Option 2



Option 3



Option 4



Option 5



Option 6
Low Overhead



Option 7
Vert. Light Curtain
Hor. Light Curtain

Other Warning Systems (Audible Alarms, Signaling Lights, Line Lights)



Audible Alarm

requires power

Can be paired to:

Motion Sensors
In & Out Sensors
RF Switches/Button
Vehicle Smart Sensor
Occupancy Sensor



Alarm Light

requires power

Can be paired to:

Motion Sensors
In & Out Sensors
Vehicle Smart Sensor
Occupancy Sensor



Signaling Lights

Battery powered

(No Power Drops)



Projected Line Light

requires power

Can be paired to:

Motion Sensors
In & Out Sensors
RF Switches/Button
Vehicle Smart Sensor
Occupancy Sensor

Tailored Safety Systems

Our LED safety design team works directly with our customers to design a safety system that meets client's specific requirements and preferences. A tailored system offers the flexibility to incorporate specific sensors, warning system or graphic elements, that align with the client's safety objectives.

Sales & Design Services

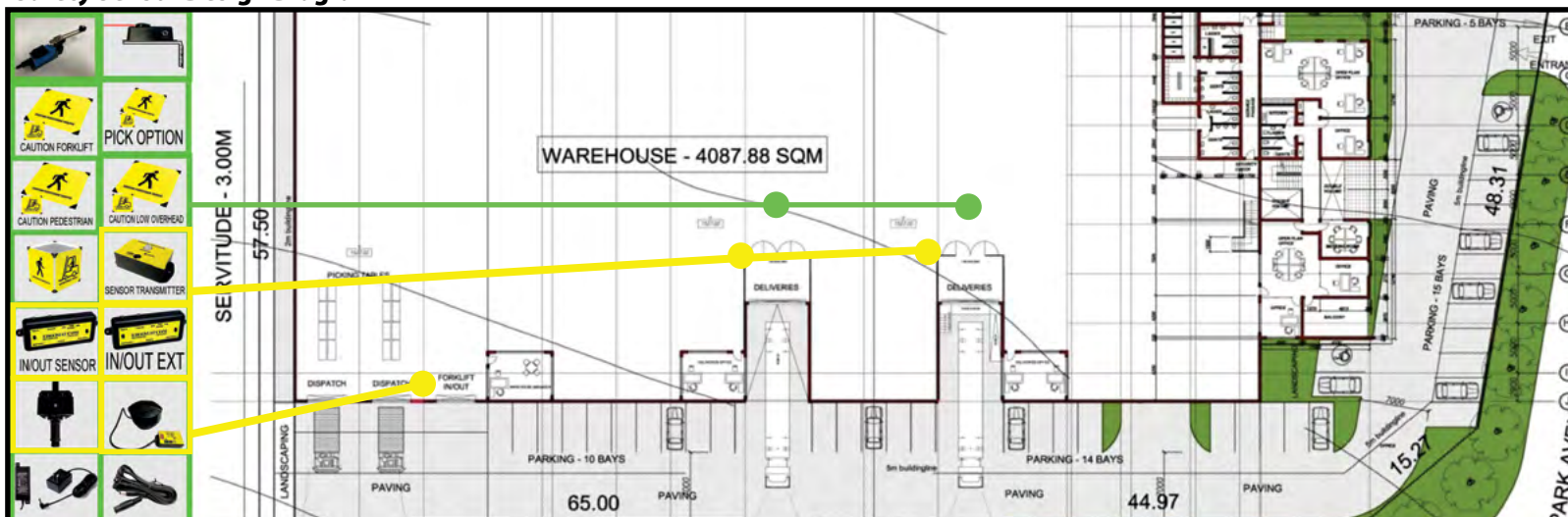
Consultation: Every client is unique: their situations and requirements are all different. Our safety team talks directly to the customer. Photos of the safety situation, safety requirements, and constraints are discussed before any safety systems are designed.

Safety System Design: Once the consultation concludes, our safety team starts building a system suited to the customers needs. This may include images and or diagrams of the system setup, explanation of safety components used & initial quoting of the safety system.

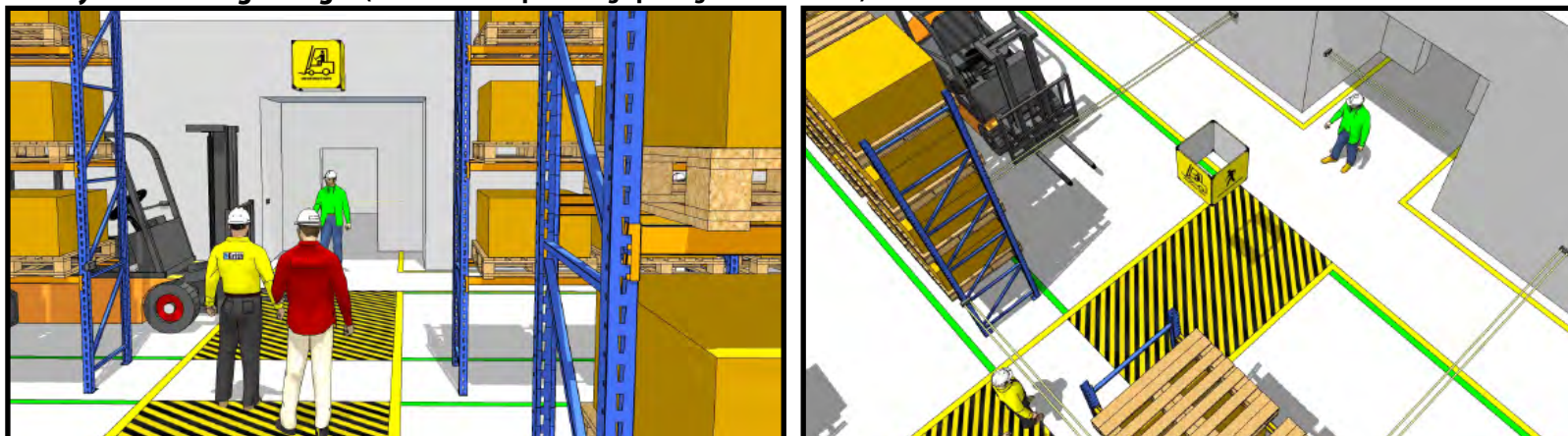
Installation: Support for safety system installation includes; pairing & installation instructions & over the phone consultation. For more complex systems Ergomat may schedule installation of your safety system with one of our trusted installers.

Support: Your primary point of contact will manage your inquiries, concerns, and requests throughout the life of the product.

Safety Sensor Design Diagram



Safety Sensor Design Images (included in complex design packages when needed)



ERGOMAT.COM

North America: +1-877-374-6628
Europe: +44 7827 139 073

2025

www.ergomat.com - info@ergomat.com

North & South America: +1-440-282-4651 | English (EU): + 44 3308 280 084 | Swedish: + 46 42 16 36 00 | German: + 49 9542 30 367-50

French: + 33 1 446 410 28 | Polish: + 48 656 97 45