

# ERGOMAT.COM



**2025**

## **Safety Sensors & Warning Systems**

Signal Potential Danger  
Avoid Costly Accidents  
Protect Personnel & Products

# Pedestrian Detection

## 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.



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# Pedestrian Detection



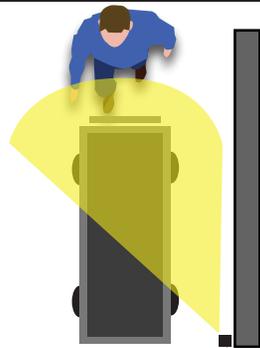
## IQSensor & Signaling Safety Light

▶ 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



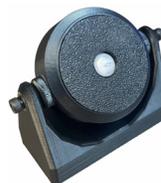
2. Signaling Light Warns of Incoming Traffic

IQSensor



### 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.

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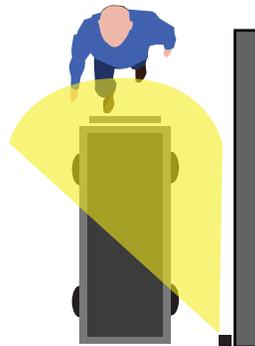
# Pedestrian Detection

## 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

IQSensor

### Includes:

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



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.

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# Pedestrian Detection



## 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.

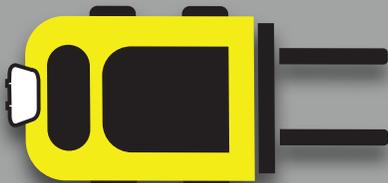


IQMat

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



LED Safety Sign



# Pedestrian Detection



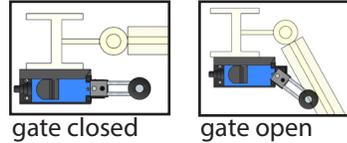
## RF Safety Switches & LED Safety Sign

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.

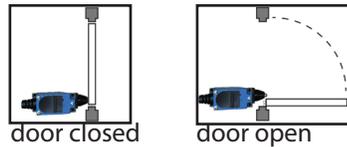
Monitor a **Door, Safety Gate** or Use a **Push Button** to monitor an intersection with no gates or doors.



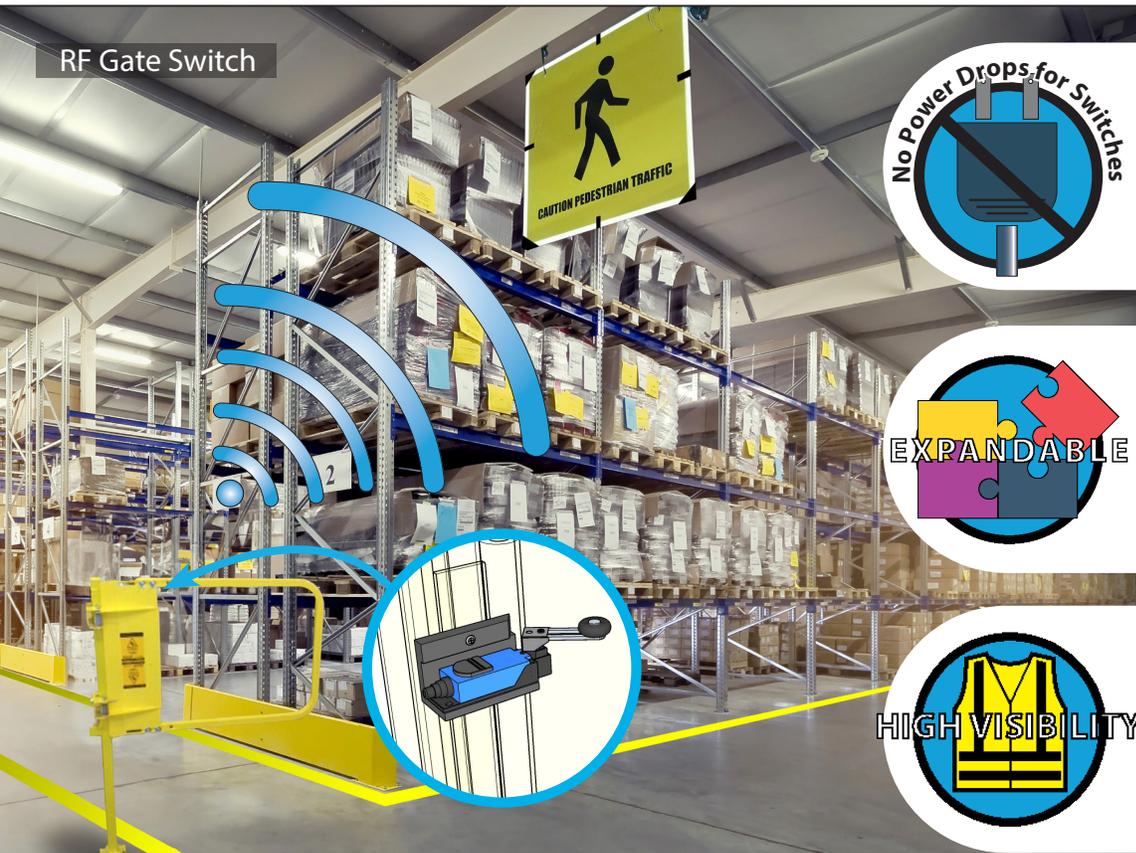
**Gate Switch** RF Switch for retro fitting to your safety gate. When the switch is activated it will wirelessly turn on an Ergomat LED Safety Sign.



**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.



### 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.

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# Pedestrian & Vehicle Detection

**Aware  
Sign**

by Ergomat

## 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.

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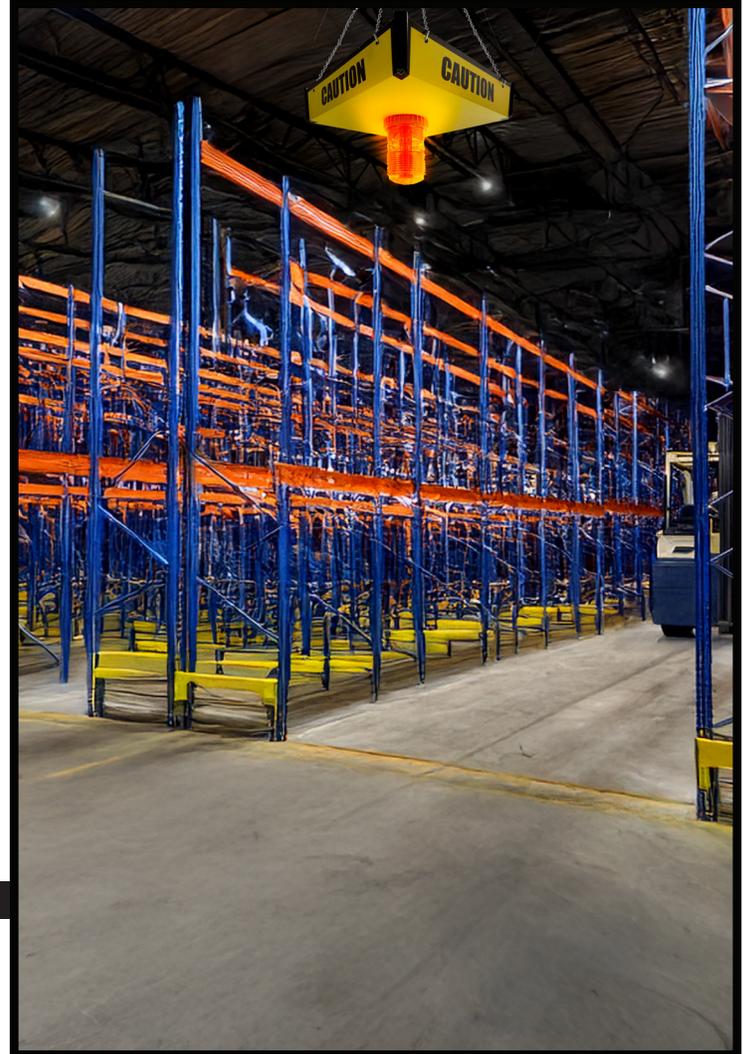
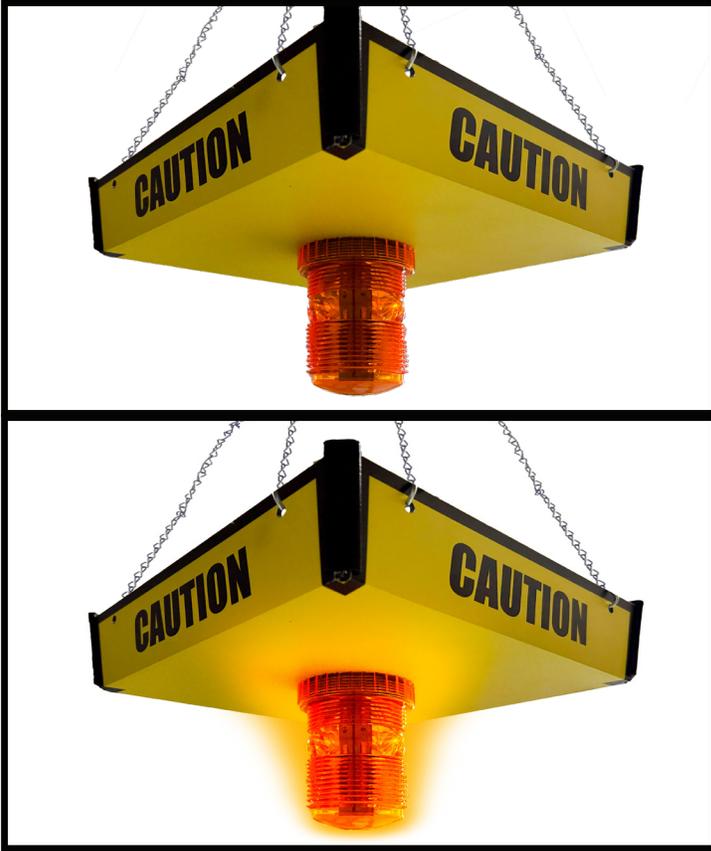
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# Vehicle / Pedestrian Detection

**Aware  
Sign**

by Ergomat

The AwareSigns® Orange Strobe Alert Combo is purpose-built to reduce forklift collisions and enhance traffic safety at high-traffic warehouse intersections. Featuring a bold orange strobe (light), the Orange Strobe Alert Combo will instantly visually alert both operators & pedestrians when an area is off-limit.



## How It Works:

**Prevent Collisions. Protect People. Keep Traffic Moving.**

- **Single Orange Strobe (Light) Alert** – When initiated, a bright orange light flashes, signaling an area should be avoided.

## Key Features:

- **Works with Smart Wireless Sensors**
- **Customizable Timing** – Adjust the red-light duration (flashing vs continuously on) to match your facility's traffic patterns.
- **Effortless Installation** – simply hang in the area where it must be used.



## Kit Includes:

- 1 Orange Strobe (light),
- 1 6amp power supply, Wireless Receiver,
- 2 Plug-In Extension cords (30'/7.5m)
- Aluminum Printed Chassis
- Mounting Chain (excludes ceiling hanging chain)

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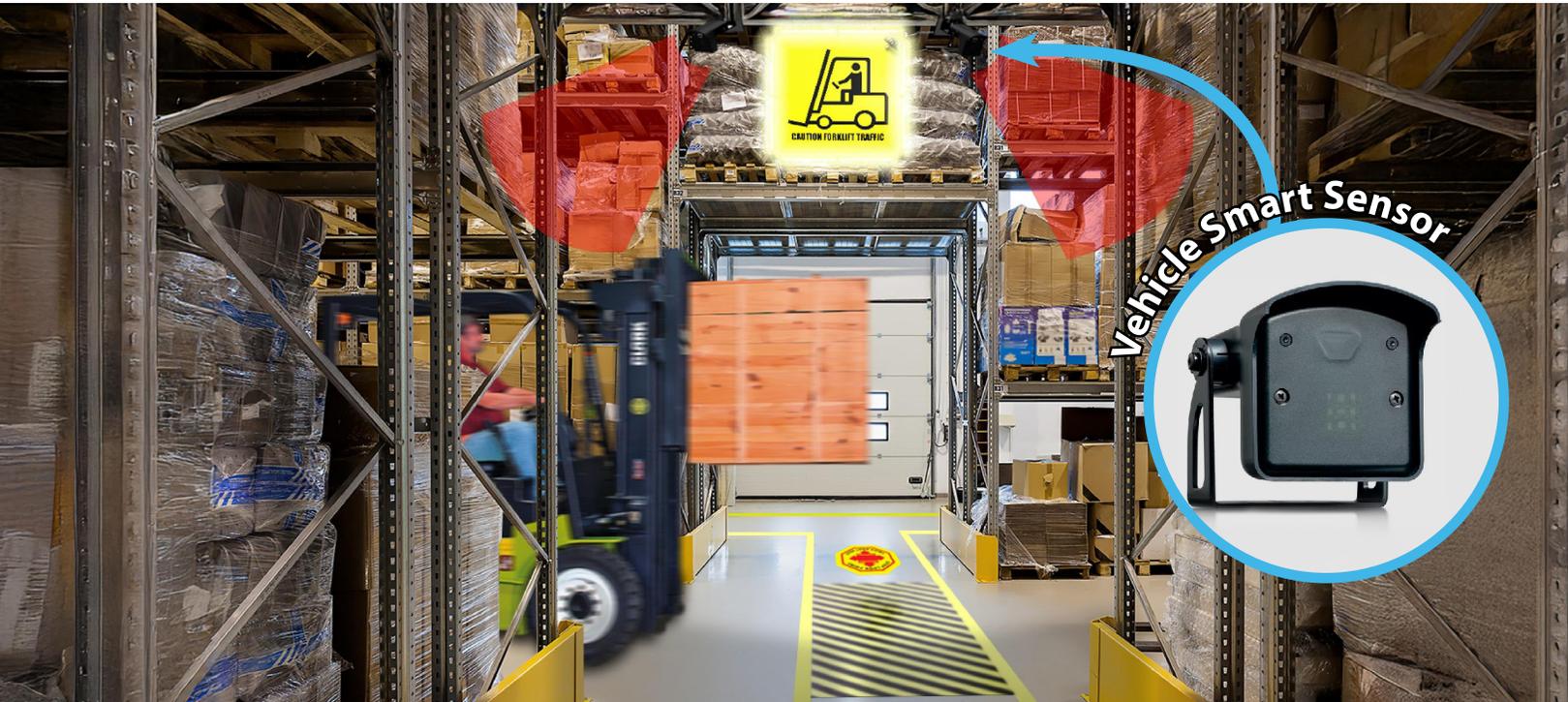
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# Vehicle Detection



## Vehicle Smart Sensor & LED Safety Sign

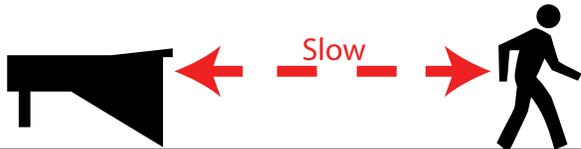
The Ergomat Vehicle Smart Sensor is designed to detect vehicle traffic approaching sensor in indoor and outdoor industrial applications. The sensor is capable of providing pedestrian and parallel traffic rejection, reducing unwanted detections. **Can be programmed to only find vehicles (excludes moving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

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# Vehicle Detection

## 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.

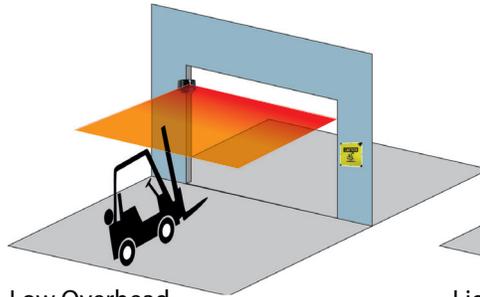
### 2 Adjustable Warning Zones:

**Zone 1:** LED Sign Flashes & Audible Alarm is triggered

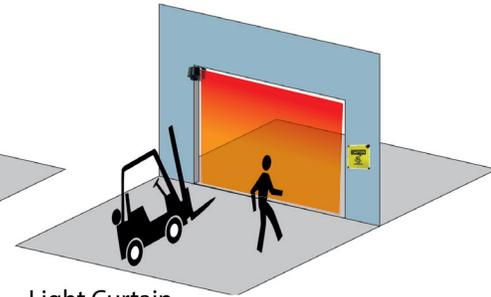
**Zone 2:** Flashing LED Sign is triggered



### 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)

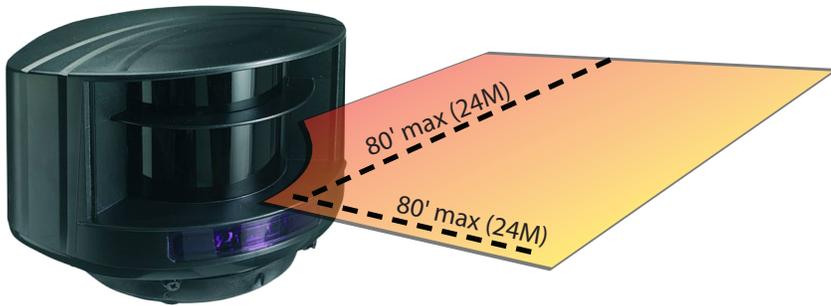


12" or 24" LED Signs



### Occupancy Sensor XL

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

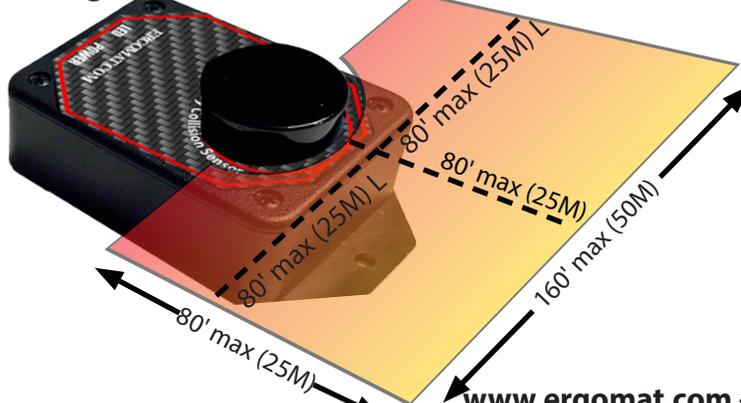


### Features

- 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

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# Pedestrian Detection



## Forklift Pedestrian Recognition System w/ 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.



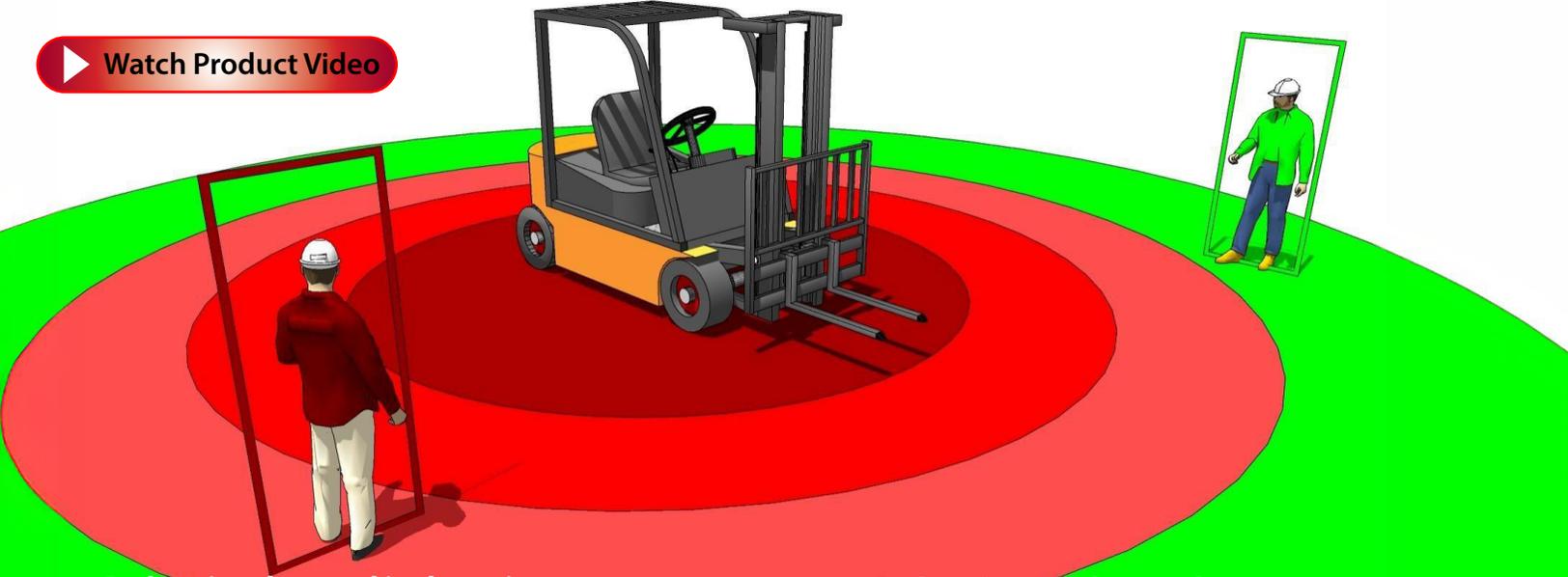
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## Forklift Human Recognition System

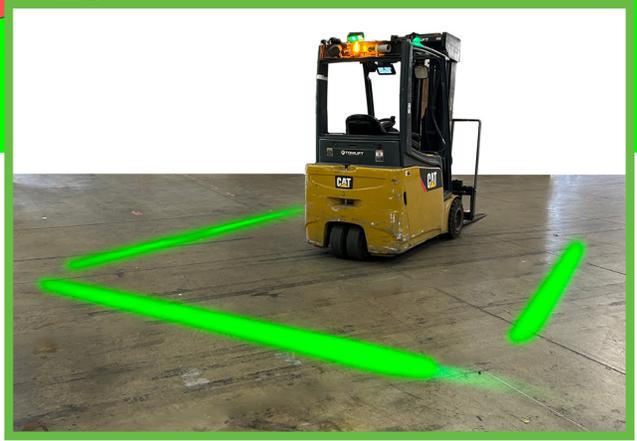
Is an advanced forklift system to prevent accidents by recognizing human shapes. When a pedestrian is detected in a "danger zone" line lights turn from green to red, and an audible alarm will sound. The system looks for the outline of humans to prevent potential collisions with moving vehicles.

▶ Watch Product Video



Pedestrian detected in detection zone

Pedestrian not detected



In cab display highlights pedestrian

### System Includes

4 Mounted Cameras



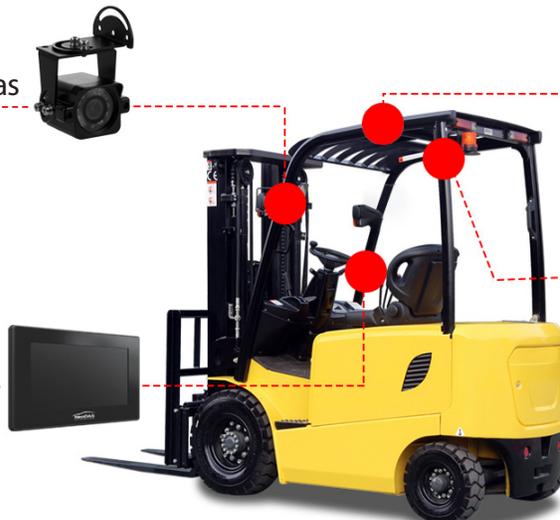
3 Projected Line Lights



1 Audible Alarm



1 Touch Screen Monitor



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# Pedestrian Detection



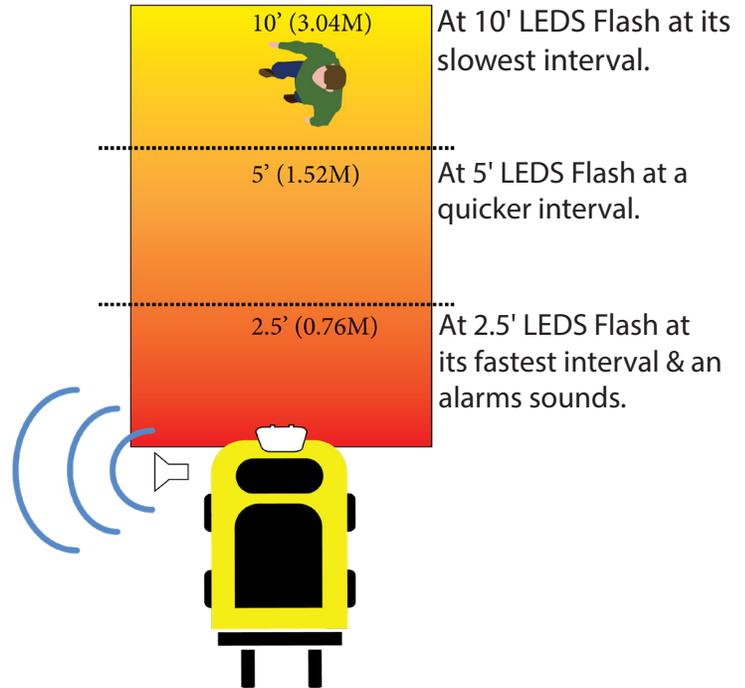
## Forklift Collision Sensor (180° Lidar Sensor)

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.



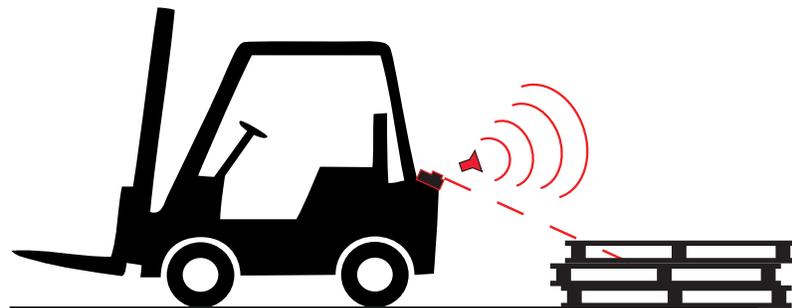
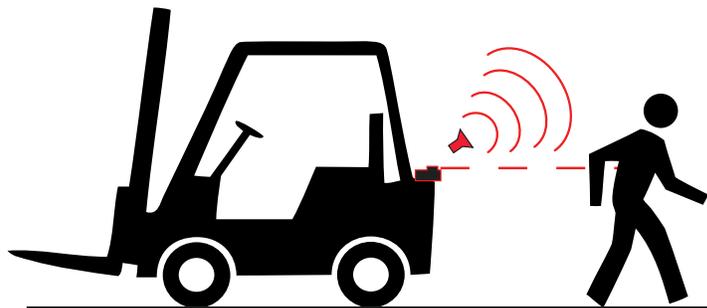
### Horizontal Sensor Application

Integrated metal plate for horizontal install direct to forklift



### Floor Sweeping Sensor Application

Angled installation required (customer supplies angled brackets)



### 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)

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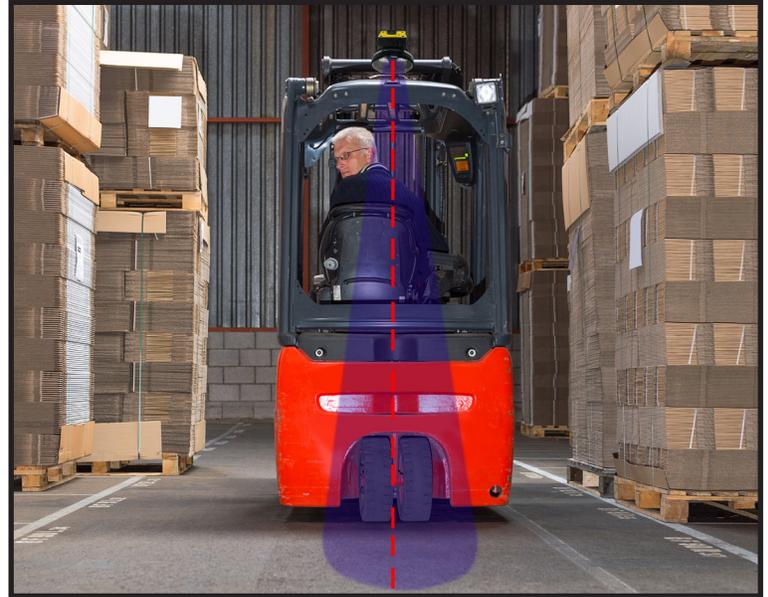
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# Pedestrian Detection



## 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.



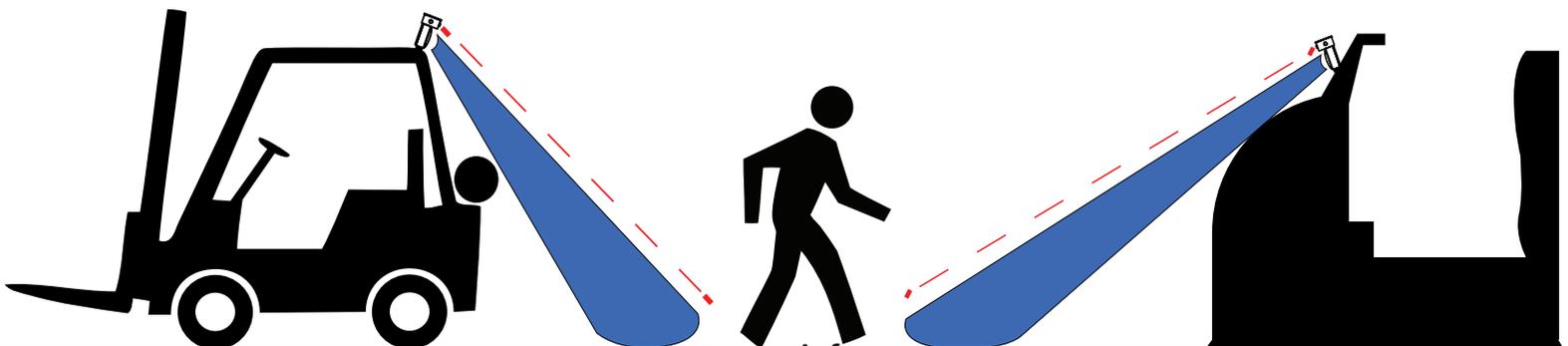
Make your blue forklift or tugger spot light more effective with a sensor that delivers an audible warning of obstructions in travel path.



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.

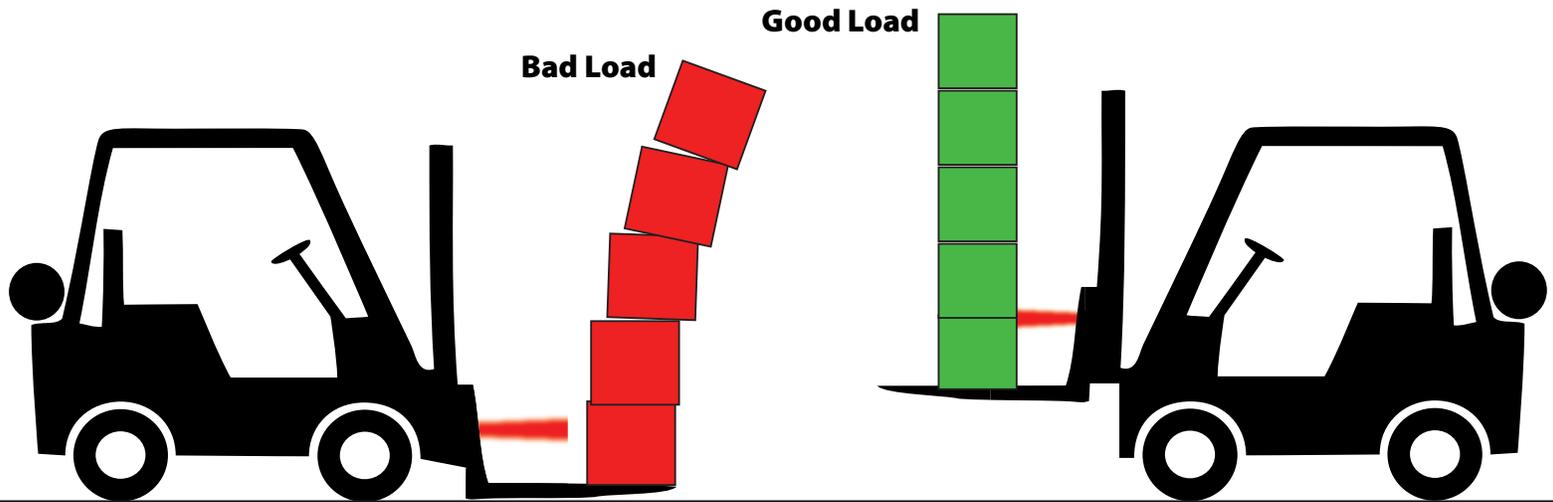


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## Forklift Load Sensor w/ Fork Alignment Laser

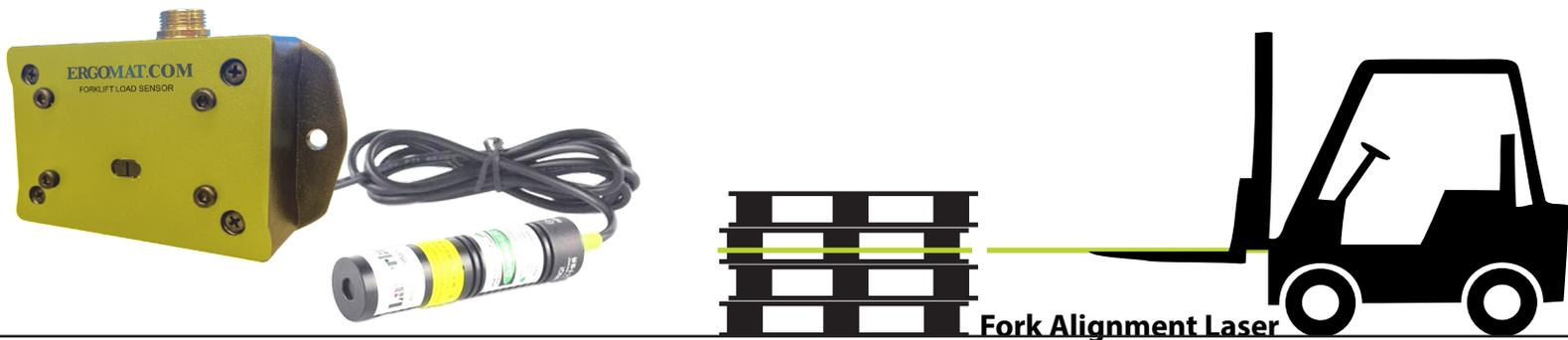
The ERGOMAT Forklift load sensor keeps forks from lifting until load is situated within 6" of the mast to avoid tipping. The sensor defeats power to the lift any time it detects a load that is less than 4' and more than 6" from the mast on our standard unit. These parameters can be adjusted at the factory 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

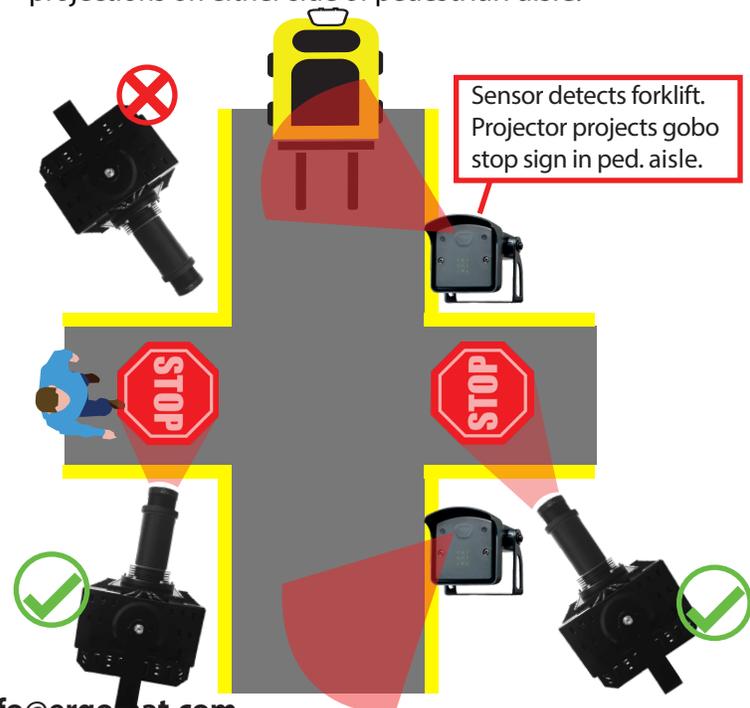
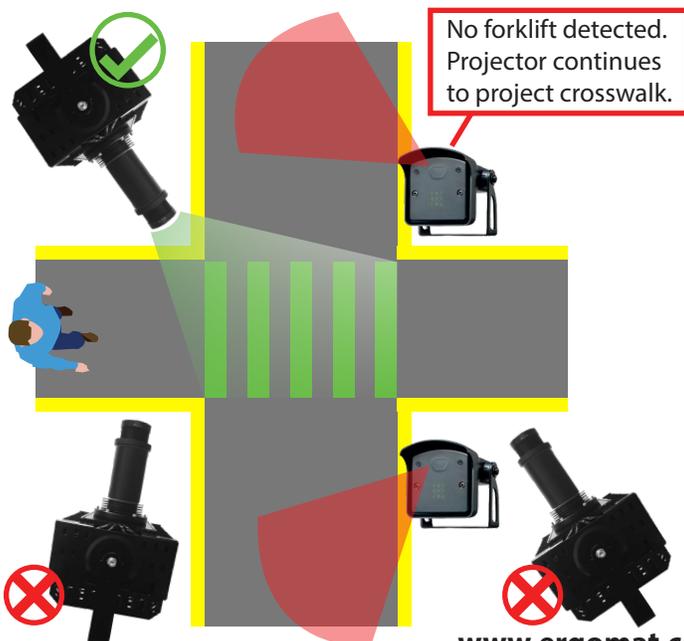
Virtual line lasers eliminate tape and floor paint maintenance, creating an indestructible floor line in industrial environments. Red, green, blue, & yellow colors available, perfect when used in conjunction with virtual signs.



### 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.



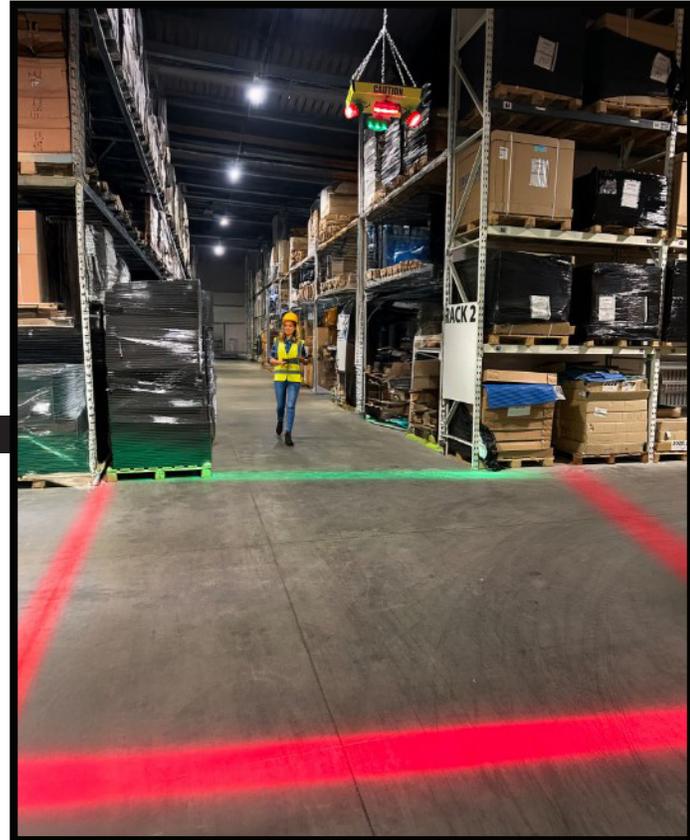
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# Vehicle / Pedestrian Detection

## AwareLine<sup>®</sup> CrossPathAlert: 4-Way Intersection Safety System

The AwareLine<sup>®</sup> CrossPathAlert helps prevent collisions and streamline traffic flow at busy warehouse intersections with a clear, projected Red/Green light system. **AwareLine<sup>™</sup> : Clear Signals. Safer Intersections.**

### AwareLine<sup>®</sup>: 4-Way Intersection Safety System



#### How It Works:

**Prevent Collisions. Protect People. Keep Traffic Moving.**

- **Clear 4-Way Projection** – Green lines illuminate all four entry points.
- **Dynamic Red Alerts** – When traffic approaches from one side, the other three switch to flashing red lines.
- **Automatic Reset** – After the set interval, all lines return to green, keeping operations moving.
- **Customizable Timing** – Adjust red alert duration to fit your traffic flow.
- **Smart Sensors** – Wireless RF PIR sensors with a 3-yr battery life.

#### Key Features:

- **Clear 4-Way Projection** – Green lines illuminate the floor at all four entry points for maximum visibility.
- **Dynamic Red Alerts** – As traffic approaches from one direction, the other three instantly switch to flashing red lines, signaling cross-traffic to stop.
- **Automatic Reset** – After the set interval, all four directions revert to green, keeping operations moving smoothly and safely.
- **Customizable Timing** – Easily adjust the red-light duration to match your facility's traffic patterns.
- **Smart Wireless Sensors** – Four RF (Bluetooth-like) PIR sensors detect motion with a 3-year battery life.
- **Effortless Installation** – Sensors mount using earth magnets and pivot for optimal positioning—no complex setup required.



#### Kit Includes:

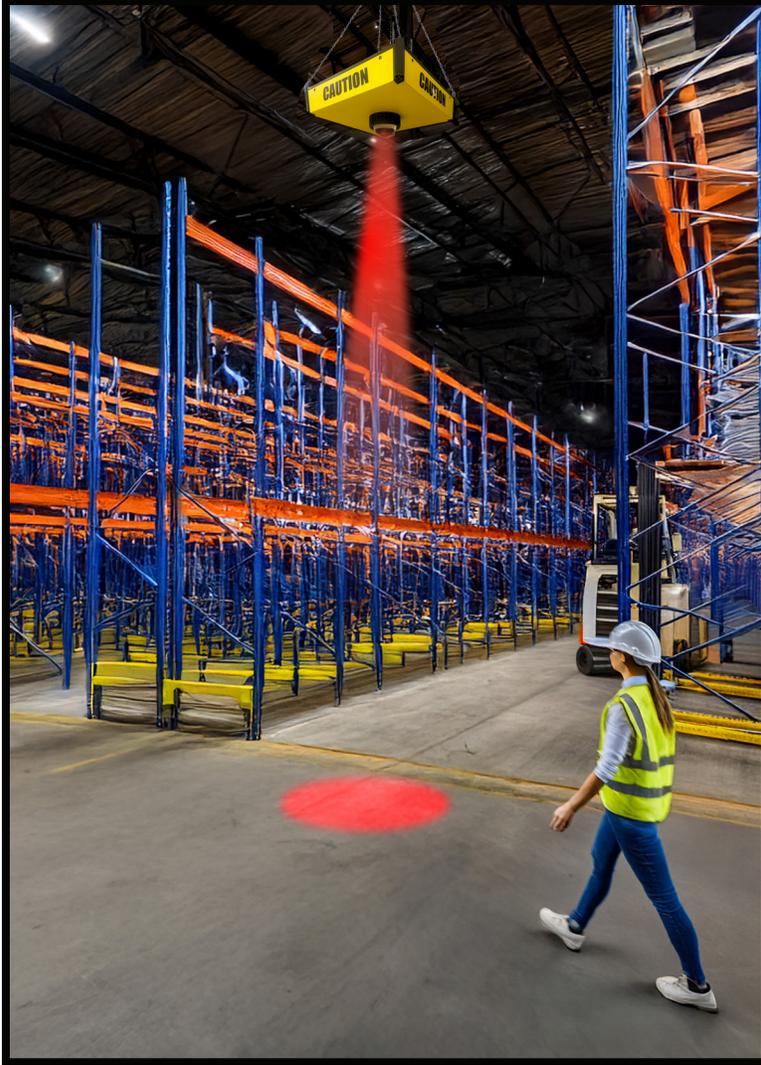
- 4 Green Line Projectors
- 4 Red Line Projectors
- 4 Extended-Life RF PIR Sensors
- 4 Wireless Receivers
- 1 24V 6A Power Supply
- Aluminum Printed Chassis
- Mounting Chain Included (excludes ceiling hanging chain)

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## AwareLine<sup>®</sup> CornerSpot: Intersection Projection Safety System

The AwareLine<sup>®</sup> CornerSpot is purpose-built to reduce forklift collisions and enhance traffic safety at high-traffic warehouse intersections. Featuring a bold red projection circle and a dual Compact Occupancy sensor system, CornerSpot instantly alerts both operators and pedestrians when cross-traffic is detected.



### How It Works:

#### Prevent Collisions. Protect People. Keep Traffic Moving.

- **Normal Operation** – The intersection floor remains clear until traffic is detected.
- **Detection** – When a forklift or pedestrian approaches, one of the Compact Occupancy Sensors is triggered.
- **Alert Projection** – The system instantly projects a bright red circle on the floor, signaling cross-traffic to stop and yield.
- **Automatic Reset** – Once the intersection is clear, the red projection disappears, allowing safe passage to resume.
- **Continuous Protection** – The hard-wired connection between the sensors and projector ensures reliable, real-time alerts with no wireless delay.

### Key Features:

- **Single Projected Red Alert** – When traffic approaches from any direction, a bright red circle projects onto the floor, signaling cross-traffic to stop.
- **Smart Activation** – The red projection appears only when the occupancy sensors detect movement.
- **Reliable Connection** – Hard-wired system ensures consistent performance between sensors and the red light.
- **Effortless Installation** – Sensors mount easily in a diagonal (caddy-corner) configuration using the included brackets.



### Kit Includes:

- 1 Red Spot Projector
- 2 Compact Occupancy Sensors with Mounting Brackets
- 1 remote control
- 1 6amp power supply
- 1 Aluminum Printed Chassis
- 2 Plug-In Extension cords (30'/7.5m)
- Mounting Chain (excludes ceiling hanging chain)

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## 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 Cube Sign

**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

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## 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

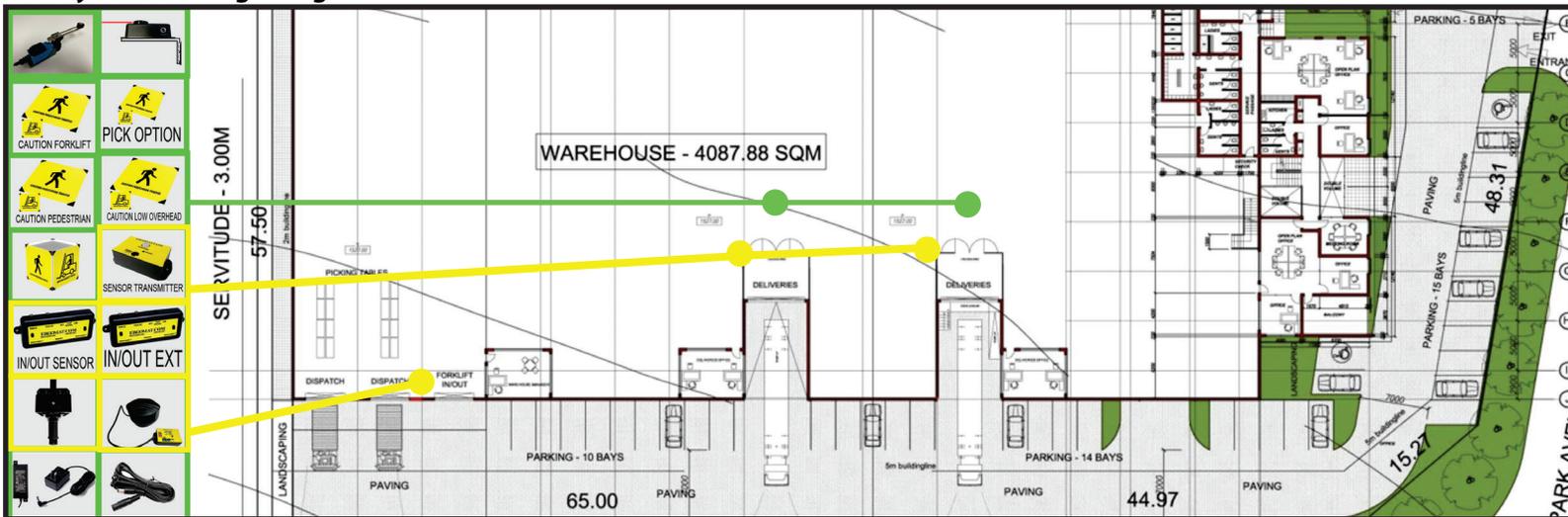
**Consultation:** Every client is unique: their situations and requirements are all different. Our safety team talks directly to the customer. Photos of the safety situation, safety requirements, and constraints are discussed before any safety systems are designed.

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

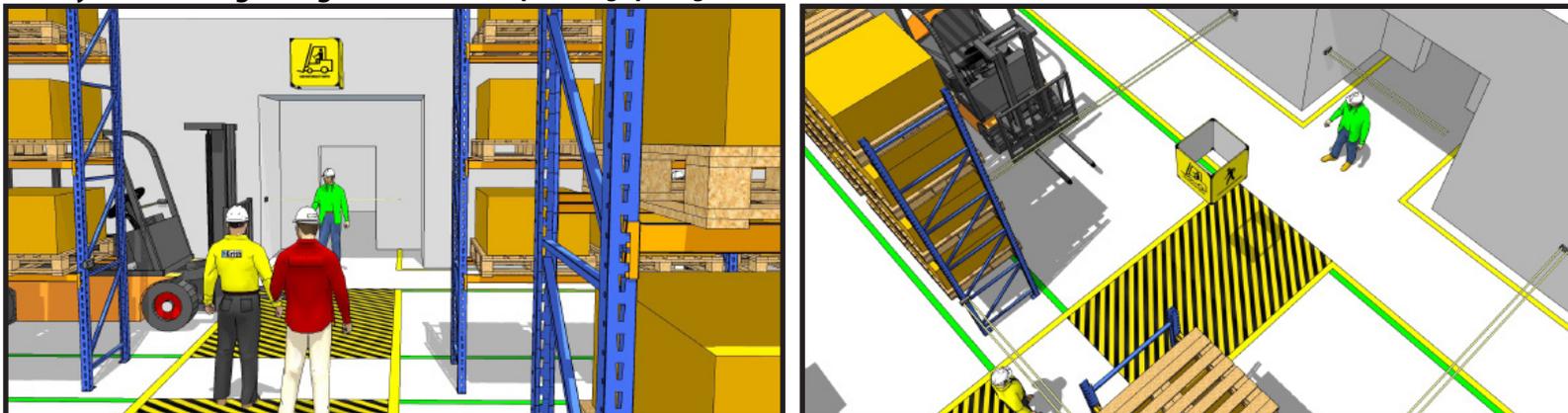
**Installation:** Support for safety system installation includes; pairing & installation instructions & over the phone consultation. For more complex systems Ergomat may schedule installation of your safety system with one of our trusted installers.

**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)



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**2025**

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