

SEnS+

smart environment sensor plus



Operator assist system with Pedestrian and Object Detection – Including truck slowdown*



Assisting Operators by providing visual and audible alerts along with truck slowdown for awareness while operating.

The SEnS+ camera has been exclusively designed for forklifts to detect objects and pedestrians in the detection range. The system supports your operation by notifying the operator with a warning buzzer and warning lights. In addition to the system notifications, the system can control the traveling speed and slows the truck for pedestrians and objects in specific conditions.



Detects pedestrians by distinguishing them from objects

- Maintains the efficiency of your operation by detecting pedestrians and objects



3 Levels of Notifications

- Audible notifications have three distinct levels based on the distance of the obstacle



Traveling speed of the truck is controlled according to the detected obstacle, speed, and direction of the truck

- Supports your operation with clear notifications and truck speed control



Detection range is adjusted automatically based on the traveling speed, steering direction, and area of the obstacle

- This minimizes unnecessary notifications

130° 10m Wide detection range

- 130* (degrees) field of view
- Maximum Detection Distance of 10 meters (32 feet)
- Detection range can be customized according to work environment



Detects unspecified obstacles

- No tags for detection required

* SEnS+ controls the operation by applying regenerative braking. It is not a function to automatically stop a truck.



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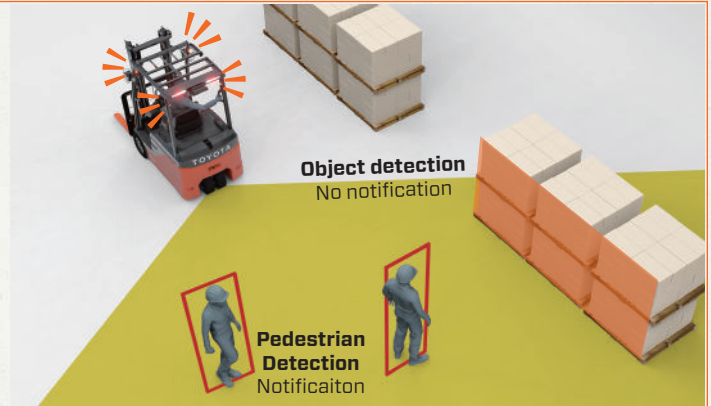
Distinguishes pedestrians from objects

The camera is exclusively designed for forklifts to detect pedestrians by distinguishing them from unspecified objects in the range of detection. Allows choice for truck to detect pedestrians, objects, or both, depending on customer preference. Your choice can maintain operational efficiency for your specific needs.



Detects obstacles

SEnS+ does not require detection tags and is useful in an environment where pedestrians are entering and exiting the area of operation.



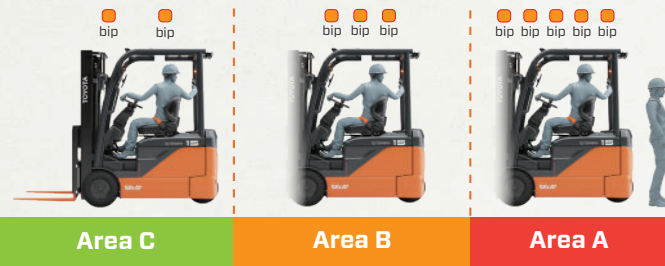
Traveling speed and truck control



3 - level notification

There are 3 levels at which SEnS+ will notify the operator of pedestrian and object detection. The notification signals vary with intensity depending upon the detection target, traveling speed, and steering direction.

Signals when a pedestrian or object is in the detection range:



Traveling speed is controlled according to pedestrian and object distance.

Truck Speed Control



Truck speed is controlled

The operator receives notification of objects behind the forklift before operation. If the operator attempts to reverse the truck with an obstacle detected, truck movement will be restricted.

Backward Movement Prevention

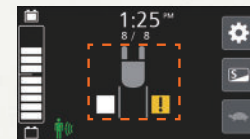
Signals make operator aware of obstacle

The truck display indicates the location of the detected object.

bip bip bip bip bip



Operator begins reversing operation



Signals intensify with proximity to obstacle
Signals are issued regardless of the position of the direction lever



Wide detection range

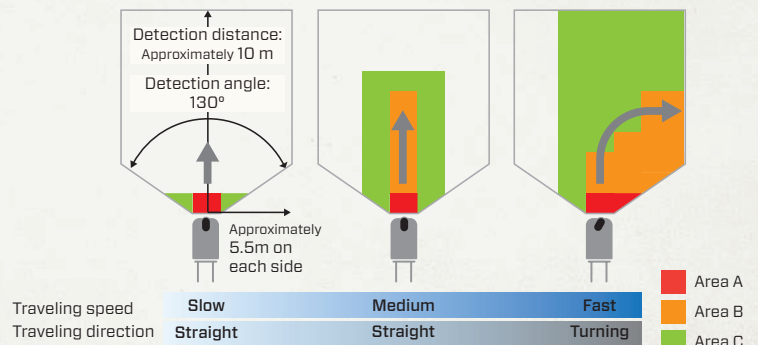
With a horizontal field of view of 130 degrees, maximum distance of 10 meters, and a maximum width of 5.5 meters on each side, SEnS+ can detect objects with a wide range.



Signaling range

The system uses traveling speed and direction to automatically adjust the detection range, maintaining efficiency of your operation.

Notification range automatic adjustment



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