



Equipment proximity warning system for factory and highway use.

Keep your people safe.

OnGuard[™]
Equipment Proximity Warning System[™]
Patent Pending
By *LightGuard Systems, Inc.*

LightGuardSystems.com

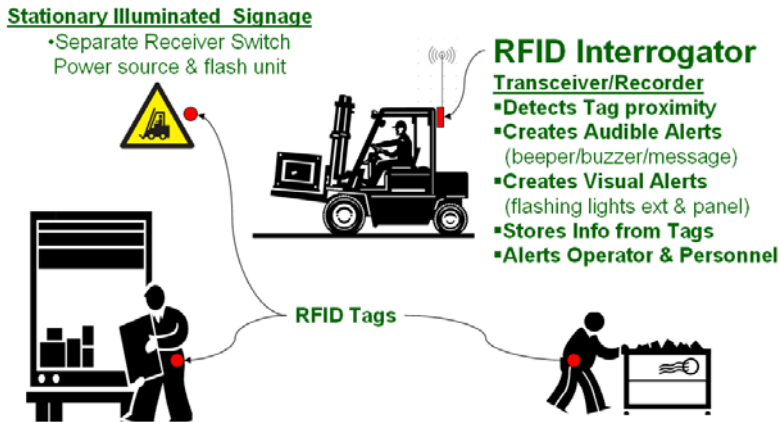


“Pursuing Safety Through Technology”

Equipment Proximity Warning System Automatic Detection & Alerts

LightGuard Systems Part Number: LGS-OnGuard
Description: Incident Avoidance & Worker Safety

Operational Diagram



Application Notes

Pedestrians wear OnGuard™ Safety Vests embedded with RFID tags. Equipment is outfitted with RFID Reader and User Interface to detect Vests and issue alerts via the user interface & vehicle mounted peripherals (lights/horns/etc...).

Turn the system on and **improve operator & pedestrian situational awareness by creating alerts** when a potential incident is possible. Alerts promote the operator to look around Equipment for **potential threats that might be obscured**.

Minimal Training	Operator Display “PROXIMITY MAP”	Functional Block Diagram
<ol style="list-style-type: none"> ALERT Detected STOP Equipment LOOK Around 		<pre> graph TD PC[Peripheral Controller] <--> VS[Vehicle Sensors] PC <--> UI[User Interface Touch Screen] UI <--> RR[RFID Reader] RR <--> AA[Antenna Array] AA <--> Vests[vest vest vest vest vest vest] </pre>

Features/Benefits

- **Prevent** Workplace **Safety Incidents**
- **Improve** Situational **Awareness**
- No Additional Operator Workload **Easy to Deploy**
- Overhead **Proximity Map**
- **Safety Vests** for Added Work Area Protection
- Uses Vehicle Power Source
- “Bolt-On” solution to Existing Equipment
- Can be Integrated into New Equipment
- **Easy-to-use** with **Minimal Training**
- Touch Screen Interface for **Intuitive Operation**
- High Brightness Display for Outdoor Readability
- **Easily Configurable** with Security Access
- Detects & Displays **Relative Direction**
- Variable Display Options For RFID Tag Meta-Data
- Various Optional Alerts For Pedestrian Detection
- Optional Integration for Bearing & Range Data
- Optional integration with Equipment Sensors for Total Preventative Maintenance
- Optional Integration with Wireless Peripherals
- Optional Integration with RFID Inventory Apps
- Stores All RFID Tag Meta Data for easy Data Retrieval & Analysis

General Performance Specifications

<i>Parameter</i>	<i>Value</i>
Detection Range	10 meters
Power consumption	20 W max, 6 W nom
Operating Temp	0°C to +40°C
Operating Voltage	9VDC to 75VDC
User Interface	10" Touch Screen
Continuous Data Logging	RFID TAG EPC
Enclosure Size	0.1 x .01 x .3 meters
Frequency	902-928 MHz
BA RFID Tags	EPC Gen2
RF Power	1W per FCC Part 15