Vigil Sterling

NON-TAG PROXIMITY WARNING SYSTEM

ABOUT US

- Vigil Safety Technologies is a tech startup founded in 2013 by engineers with backgrounds in Software Design, Manufacturing and Safety.

- A forward looking **USA** Mega Trends design company with a mandate for continuous R&D in safety related identification technologies with back office development based in India.

- Product development based on full in-house concepts and design based on state-of-the-art technologies with latest software controls.

- Our USP is to develop expandable and modular safety products reducing cost impact on users who are mainly Equ9ipment manufacturers, develop economical and high quality products yet ensuring safety is the KEY.

- Focus on user experience (UX) in providing simple yet powerful user interfaces.

- Vigil a pioneer in safety devices for Construction and Mining Industry
  - ✓ ***Vigil Sitesafe*** - Real Time RFID Tag based Proximity Warning and Alert System"
  - ✓ ***Vigil NonTag*** Radar Based Blind Spot Detection for construction equipment's.
  - ✓ ***Vigil Highsafe*** Man lift Operator Anti Entrapment System.

Vigil

ALL ABOUT SAFETY

PRODUCT AND FEATURES

"Vigil Non Tag Proximity Warning and Blind Spot Detection System

- Vigil Non Tag Proximity Warning System is designed for Object detection with system alerts providing operators with time to respond to hazards and avoid collisions.

- Frequency Modulated Continuous Wave (FMCW) radar detects moving and stationary objects.

- Collision avoidance systems can help mine operators minimize the risk of accidents and injury and can translate into cost reductions and efficiency improvements.

- Diminished visibility plays a significant role in many construction site accidents. The size and power of excavating equipment leaves little room for error. Blind spots can be quite large and located on all sides of a vehicle. Dust, dirt and debris raised during excavation can have a detrimental effect on visibility and equipment performance

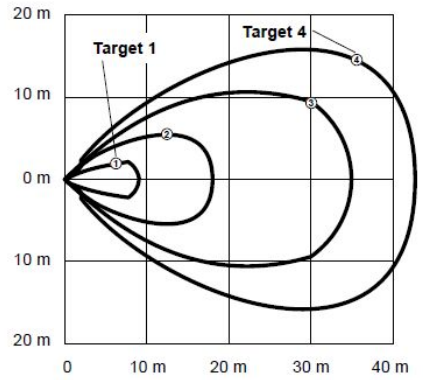
- To help overcome these challenges, Vigil Non Tag radar-based sensors is installed at the rear of the dump trucks and heavy equipment`s . The sensors provide active object detection in vehicle blind spots.

- The sensors emit fan-shaped beams of high frequency radio waves. To avoid false alerts, each sensor was configured to create a sensing area corresponding to its blind spot, ignoring objects outside that area. Objects entering the sensing area alter the time delay of the return signal, triggering a alarm & indicator lights to illuminate alerting the operator of obstruction in work zone .An on-board camera and monitor system allows the operator to check for any obstructions in a short span of time.

PRODUCT AND FEATURES - 1

Vigil Non Tag Proximity Warning System
Features:

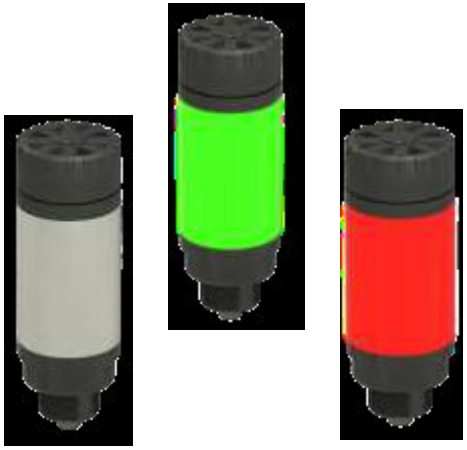
- Frequency Modulated Continuous Wave (FMCW) radar detects moving and stationary objects.
- Immunity to wind, precipitation, humidity, fog, changing air temperatures and light.
- Operates at 12 to 30V dc with bipolar PNP.
- *Radar-based adjustable field sensor.*
- Quick on board adjustment of sensing distance, sensitivity and output.
- Adjustable sensing area from 0 m to 24 m minimized false alerts caused by background objects outside of blind spots.
- RVCCS- Reverse Camera and LCD monitor for additional safety and operator quick view of blind spots.
- Rugged IP67 housing withstands harsh environments.
- Operating Temperature −40 °C to +65 °C



COMPONENTS

Proximity Sensor

- Operating Voltage (12 to 24 V)
- Operating Temp (+65 `C)
- Al Alloy Rugged IP67 Enclosure



In Cabin Alarm and LED Indicator

- Operating Voltage (12 V)
- Operating Temp (+60 `C)
- Audible Range 85db

Cable & Accessories

- **Monitor**: Power Input: 12/32 V DC/Screen: 7” digital LCD display - 16:9 wide.
- **Rear Camera:** Power Input: 12 V DC/Viewing Angle: 170 ^{0}

APPLICATION

- Dump Trucks
- Trailer Trucks
- Water Tankers
- Boom Trucks
- Earthmoving Equipment
- Waste and Fuel Tankers
- Tractors
- Telescopic Handlers
- Backhoe
- Grade All
- Bulldozer
- Roller
- Pipe Laying Machine

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Vigil Technologies LLC – USA.

Vigil Sterling

www.vigilsterling.com

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KSA DISTRIBUTOR AND INTEGRATOR

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