

ImpactAlert™

Sensitivity Adjustment and Maintenance Mode



Why Are Sensitivity Adjustment & Maintenance Mode Important?

SENSITIVITY

With a wide variety of roadside assets (crash cushions, poles, cable barriers, bridges, etc), brands, and environmental conditions (snow, wind, proximity to train tracks, etc.), having the correct sensitivity settings in impact detection and alert systems is crucial for enabling the DOT's maintenance team to effectively manage and maintain the assets monitored by these systems.

Failing to set the appropriate sensitivity level based on the asset and its surrounding conditions can lead to two main issues:

- **Oversensitivity:** This results in false positives, prompting DOT personnel to make unnecessary trips to inspect assets that were falsely reported as impacted. This wastes valuable resources and time, reducing

efficiency and diverting attention from more urgent maintenance tasks.

- **Undersensitivity:** This can lead to missed impact events, leaving potentially damaged and compromised assets unattended. Such assets may no longer perform their intended safety functions, increasing the risk level of secondary incidents and endangering both road users and maintenance crews. In addition, undetected damage can cause longer and more hazardous traffic disruptions.

These scenarios highlight the critical importance of having a reliable, accurate, and precisely calibrated sensitivity setting in any deployed impact alert and monitoring system.

MAINTENANCE MODE

There are specific times and situations when it becomes necessary to temporarily pause alerts—such as during scheduled maintenance, repairs near or to the asset, snow removal, or road cleaning activities.

If DOT personnel are not able to temporarily disable notifications in such situations, the system may generate unnecessary alerts, causing distractions and diverting

personnel and resources that could be better utilized elsewhere—similar to the issue caused by false positives.

Equally important is the ability to re-enable alerts as soon as the maintenance or activity is completed, without needing to contact a centralized team to reactivate the system. Failing to do so could result in a genuine impact going unreported during the system's downtime.



How Does ImpactAlert Solve This?

ImpactAlert™ by Lindsay is a compact, self-contained, rugged, and waterproof monitoring device designed to enable remote impact detection. It is both brand-agnostic and asset-agnostic, meaning it can be installed on virtually any roadside safety device—such as cable barriers, crash cushions, end terminals, utility poles, guardrails, bridge structures, and more.

Equipped with an accelerometer and a built-in cellular modem, Impact Alert™ can detect impacts and send real-time alerts via email and SMS.

The device is powered by RoadConnect, a platform that provides complete control, monitoring, and communication capabilities.

RoadConnect is accessible at <https://app.roadconnect.net> as a Progressive Web App (PWA), which allows users to access it from any web-enabled device—including iOS and Android smartphones, Windows PCs, Macs, Chromebooks, tablets, and more.

Through RoadConnect, users can:

- Remotely adjust the sensitivity level of any Impact Alert™ device from anywhere, using any internet-connected device.
- Rely on sensitivity recommendations based on Lindsay Corporation's years of pilot testing and field experience. However, because real-world conditions vary widely,

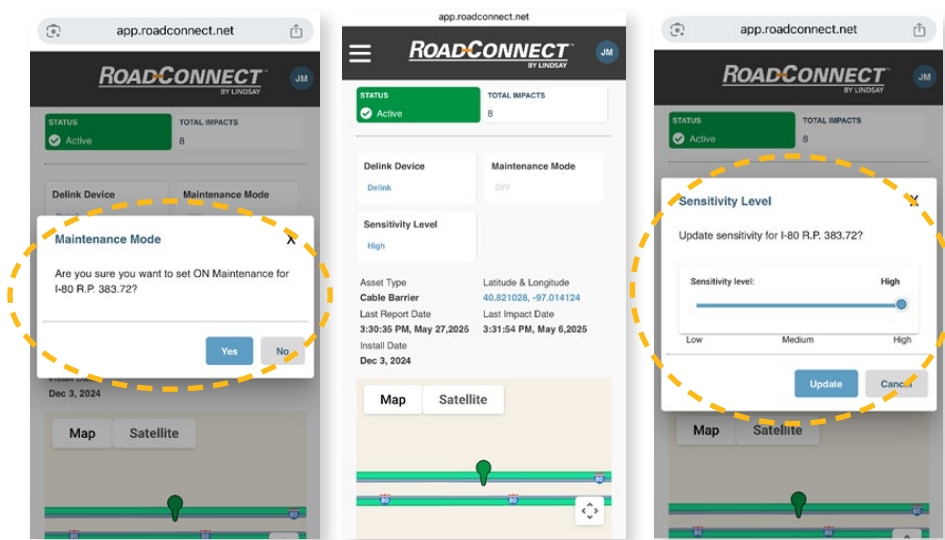
RoadConnect allows users the flexibility to adjust sensitivity settings to fit their specific needs.

Maintenance Mode is another key feature enabled by RoadConnect. When DOT personnel anticipate any activity that may cause vibrations or disturbances near a monitored asset (e.g., repairs, snow removal, tension adjustments), they can activate Maintenance Mode with a single click. This mode temporarily suspends alerts to prevent false positive notifications. Once the activity is complete, the system can be reactivated immediately with another click, restoring full monitoring and alert functionality.

CONCLUSION

Remote impact detection enhances the speed and reliability of roadside maintenance, reduces exposure of workers to live traffic, and saves time and resources for DOTs—all while improving overall roadway safety.

Timely awareness of roadside impacts through real-time notifications improves response times. However, false alerts undermine the benefits of such systems. ImpactAlert™ by Lindsay addresses these challenges with flexible sensitivity controls, easy-to-use maintenance modes, and broad compatibility across asset types and conditions.



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