

Pulse760



The Titan Pulse760 consists of a Global Navigation Satellite System (GNSS) and Time of Flight (ToF) used for vehicle and pedestrian detection



The Pulse760 is an ultra-wideband time-of-flight sensor used for precise ranging between vehicles and Epiroc's pedestrian tags, with an accuracy and range exceeding 80 meters. A high-accuracy GNSS receiver allows for accurate positioning in surface applications. The Pulse760 also features sub-GHz RF capability (868MHz or 915MHz) and is typically installed on the sides of a vehicle, with adaptations based on vehicle size.

+ Main benefits

Enhanced detection. Combines time-of-flight technology with low-frequency magnetic fields for superior object penetration and accurate ranging.

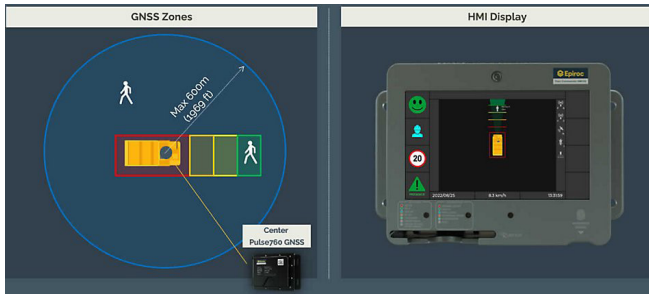
Communication. Sub-GHz RF capability (868MHz or 915MHz) ensures robust communication.

Adaptability. Standard implementation with four sensors on vehicle sides, adaptable based on vehicle size for comprehensive coverage.

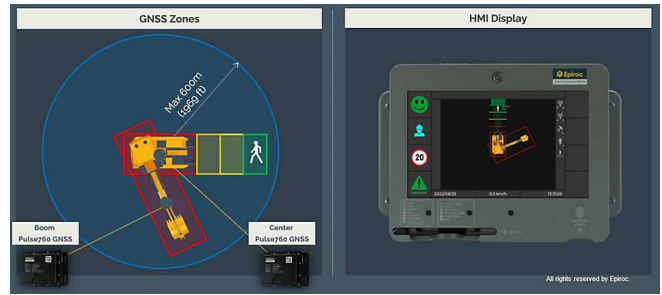
Extended range. Provides good accuracy and a range exceeding 80 meters Time of Flight, 300 meters GNSS, enhancing safety and awareness.

Functions and features

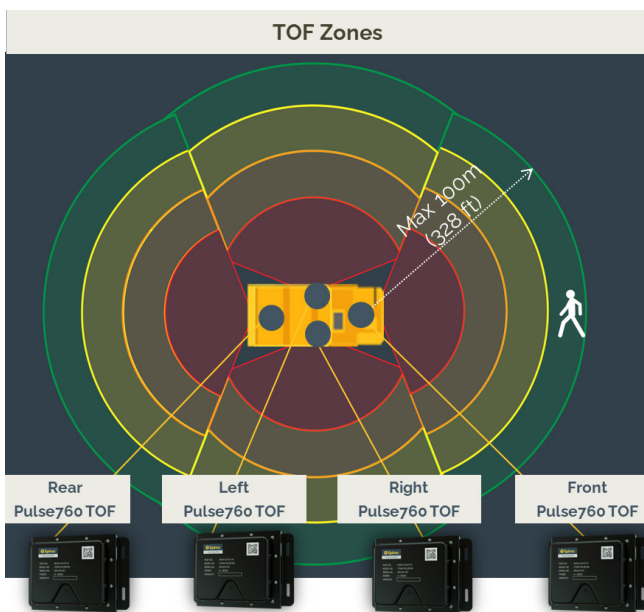
GNSS: Single Pulse760s



GNSS: Dual Pulse760s



Time of flight



Functions

- GNSS (Positioning)
- Time of Flight (V2V & V2P ranging)
- Magnetic field receiver (System self-monitoring)
- Vehicle-to-vehicle RF transceiver
- Vehicle-to-pedestrian RF transceiver

Features

- Unique identifier
- Vehicle identifier
- Internal battery backup
- Data logging
- CAN FD bootloader
- NFC wireless configuration
- Dynamic CAN bus neighbour sensing

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