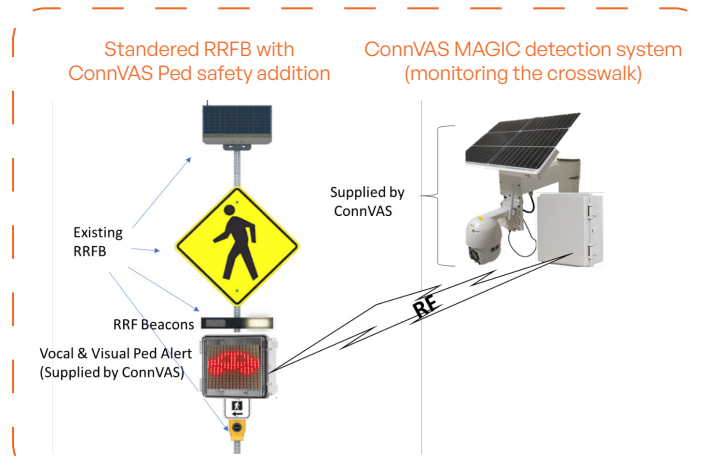


CONNVAS RRFB RETROFIT FOR PASSIVE DETECTION AND ACTIVATION

ConnVAS
Sensing the future



Overview

ConnVAS-RRFB-Retrofit upgrades any existing RRFB to a passive detection and intelligent activated device. The solution is affordable, simple, and MUTDC compliant. The retrofit will integrate with industry-standard RRFBs, regardless of the manufacturer.

Description

The upgrade includes the ConnVAS-MAGIC-detect & ConnVAS-alert systems, based on an AI detection solution built around the ConnVAS MAGIC edge computer with internal AI capabilities. The MAGIC-detect monitors the crosswalk environment with cameras and:

- Detects Pedestrians, bicyclists, micromobility users and vehicles in predefined zones.
- Activates the flashing beacons and/or the ConnVAS ped alerts according to pre-defined rules, including object presence, time duration in a zone, and trajectory direction, and
- Does not require VRUs to manually activate the RRFB dedicated push-button.

The activation time of alerts (flashing beacons and ped alerts) adjusts to the time the VRUs are present in the crosswalk. The RRFB dedicated push buttons will continue working and remain operational if VRUs choose to manually activate the ped call.

The upgrade includes the optional crosswalk analyzer which provides cloud-based analytics data, including information on traffic yield violations, near-misses, vehicle speeds, counts and short video clips of the different events.

The MAGIC-Detect system is stand alone and may be mounted on existing/new poles or walls. It supports both AC and solar power. The ConnVAS-Alert system is mounted to the existing RRFB pole.

Key Features

- Standalone system mounted on pole or wall
- Passive detection and activation of existing flashing beacons
- 95% detection accuracy
- Flexible detection zone configuration and algorithms designed to mitigate false positives
- Activation times of flashing beacons are adjustable to match when VRUs are present in the crosswalk
- Existing dedicated push-button continues to function
- Passive detection of approaching vehicles and activation of vocal and/or visual alerts towards VRUs
 - 10 volume levels for audio alerts
 - 10 different audio messages that can be programmed and played
- Remote power on/off control
- Full analytics capabilities, including short videos of different events (optional)
- Remote management and system health information over cellular
- Solar and AC powered options
- MUTDC compliant

Included in the package

- ✓ 1 full ConnVAS-MAGIC-Detect
- ✓ 2 full ConnVAS-Alert (one on each existing RRFB pole)
- ✓ Maintenance + remote system health info (monthly fee)

Optional

- 1 solar panel + batteries
- Crosswalk data analyzer package (monthly fee)