











# INTRODUCTION

The new version of Vehicle Tag V3.0, which normally provides real-time vehicle location from Smartflow® servers over Wi-Fi, is now also a Bluetooth-based collision prevention system. The new Vehicle Tag 3.0 now has the ability to identify and notify the operator of the presence of pedestrians and other vehicles in their surroundings, in order to prevent collisions in underground and surface mining environments.

#### The system has triple functionality:

1) Real-time location of the vehicle to the Smartflow® servers via Wi-Fi.

2) Collision Prevention System: Providing the vehicle operator with notifications of approaches and detections of pedestrians, vehicles and risk areas identified via Bluetooth.

3) Bluetooth communication gateway: Extends the coverage range of the **SmartLamps** to the Wi-Fi Access Points through the Bluetooth coverage emitted by the **Vehicle Tag**.

## BENEFITS

- Multifunctional system with high practicality characteristics.
- Indicator screen for counting and target detection (pedestrians and/or vehicles).
  Visual and auditory indicator for alert notification of proximity of targets.
- •Visual indicator to detect entry to risk areas.
- Transceiver functionality for location and tracking.
- Approach function for exclusion of lamps inside the vehicle.
- Boarding function to exclude vehicles for interaction without notice.
- Updates and configurations through Over The Air (OTA).
- Electronic detection of Smart Beacons.
- Compatibility with other Smartflow® products.
- Server connection indicator.
- BLE Gateway function.
- Availability of 4 GPIOs for telemetry recording in real time
- and outside of coverage.
- Recording of geolocation events through the use of beacons in real time and out of range.
- Traceability of geolocation inside the mine without coverage. 1\*
- Ability to save historics for up to a month.





1\* This Feature requires a Smartflow® viewer update



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SMARTFLOW

Tag Vehículo V3.0





# **VEHICLE TAG 3.0 SPECIFICATIONS**

10 V to 40 V
500 mA
BLUETOOTH 5.0 & Wi-Fi 5
50 dB to 106 dB
IP67
119.4MM X 66 MM X 40.65
500 GR
1 YEAR
4 dB
10 dB
Class 3
16GB
RTC (REAL TIME CLOCK)

### **TECHNICAL CHARACTERISTICS OF FUNCTION**

- Stand Alone operation capacity.
- Target notification and counting
- Proximity alert notification.
- Recognition between people and vehicles.
- Safe boarding of personnel.
- BLE Gateway function.
- Great detection range distance.
- Real-time notifications.
- Detection range of 80 to 100 meters.
- External vehicle power supply 12v to 24v.
- Control and/or sampling of telemetry data that can be viewed within the Smartflow system in real time.
- Static or Dynamic IP Assignment (DHCP)
- Internal Bluetooth antenna



Perimeter Leds:

- Pedestrian counting
- Vehicle count
- Textual notification of entry to risk areas



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Vehicle Tag V3.0

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**Sucker Cup** 



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