

"HEAD OF SPACE" ULTRASONIC SENSOR WITH INTEGRATED 360° SIGNAL

PRESENTATION

The new LEADER PARK® sensor with integrated LEDs signal light - highly visible 360° wide - offers an innovating very attractive design.

It's double ultrasonic detection with angles meticulously designed and a latest electronics generation coupled with our intelligent ultra-fast software, grants a perfectly reliable detection of all kinds of vehicles from the alleys sides of indoor car parks.

Its design and high tech conception is the result of a meticulous research & development to fulfill the most demanding requirements from operators, architects, installers, and users.

The new LEADER PARK® sensor is the key of the most innovating Parking Guidance System!

The use of high performance latest generation ultra-high luminosity LED diodes makes it the most visible light sign of his category.



View of the angular detection sensor with integrated signal "pure green": "vacant space"

The double angular detection:

The LEADER PARK® sensor with integrated signal light and double detection is fixed in height, at the "head" of the car space, along the alley.

This integrated conception "all in one" with double detection allows the widest range of positions for an esthetic perfectly aligned installing in all circumstances, simple, fast, and economic, and reduced wiring and work times.

OPERATION

To grant a perfect vision 360° wide and at 100m, the sensors are equipped with 5 "tricolor" ultra-high luminescence LED diodes (11.400 mCd / sensor!).

The sensor has been designed with high tech components to optimize either the reliability and the energy consumptions.

The electronic control of the 2 high sensitive ultrasonic detection transducers is perfectly filtered by the micro-processor, which eliminates the "false detections" and the calibrations according to the operating installation and conditions.

The signal color changes automatically, depending on the car space occupation state:

- Vacant car spaces (examples):

- **Pure Green:** "Generic" car spaces,

- **Blue:** places "Disabled persons" car spaces.

- **Orange:** "special" car spaces (Family, Electric, VIP, ...)

- **Purple:** (Idem)

...

- Occupied car spaces:

- **Red,**

- **White.**

Rem: When a car arrives & is detected on the space, a white LED (in option) can light the car space for a moment when visitors arrive, which creates a very appreciated personalized welcome ambiance.



View of the angular detection sensor with integrated signal "red": "occupied space"

PRINCIPAL FUNCTIONS

- **Innovating & attractive esthetic design** with various mounting accessories assorted.
- **Ultra-light signal light visible 360° wide.**
- **double detection highly reliable** in all circumstances and **perfectly "filtered"** to eliminate the false detections.
- **Car space lighting when car space becomes occupied** to welcome visitors & maximize their comfort (in option).
- Possibility of **synchronized blinking of signals** (various customizable modes).
- **Wide range of signals colors** for easy spotting of the **"specific" vacant car spaces.**
- Possibility of **forcing the states and/or colors of the signals** through the supervision.
- **Customizable "Eco-sleep" mode according to various scenario** of opening days and hours.

TECHNICAL FEATURES

- **LEADER PARK® ABS base & transparent polycarbonate globe** anti-vandalism.
- **65 millions of colors ultra high-luminescence LEDs diodes**, for an intuitive visual identification of the different types of car spaces vacant (green, blue, orange, purple, white, ...).
- **Large detection range:** 0,80 m to 4,00 m.
- **Automatic calibration of detection distance**, without need of tool or housing opening.
- Minimum installation height: 1,80 m.
- **Wide power voltage range:** each sensor has a **voltage regulator** which grants operating from 18V-CC to 72V-CC; **the luminosity of signals is identical all over parking**, and **electronics is not sensible to voltage variations.**
- **Autonomous operation when only powered.**
- **Ultra-low consumption < 2,0 W** & customizable eco-sleep mode.
- **High efficiency > 90%.**
- **Robustness & perfect sealing of all mountings**
- **Automatic software system address assignation**
- **Evolutionary connections**
- **Design & production in FRANCE**

COMMUNICATION & WIRING

- **Sensor fast communication standard protocol BUS CAN** (or RS-485 in option).
- **Up to 125 sensors may be linked on each BUS "loop".**
- Power & BUS communication operates via a **unique cable UTP Cat5E AWG-24 with 2 standard connectors RJ45.**
- **No need of communication relays or AC Power cabinets out of the central cabinet!**
- All **settings of the sensor** can be controlled and modified through the BUS.
- **Easy & fast installations**, without connections errors risk, for a perfect reliability.

EASY & ULTRA-FAST INSTALLATION

The modules have been **specifically designed for an extremely easy and fast installation**, with standard industrial components.

The electronic boards are delivered tested and pre-assembled in their transparent globes: the **sensors are mounted and connected instantaneously without tools** through solid anti-vandalism clips.

The sensors have been designed to be easy mounted in various ways with a **large range of assorted accessories specially designed for quick & esthetic mounting** in all types of structures:

- **directly under ceiling:** via screwing the bottom of case.
- **On assorted base of height 4,5 cm.**
- **With assorted hanger lengthens.**
- **Under metallic rails.**
- **On beam sides.**



View of mountings on base and hanger lengthens