



# Tender specifications

Sensing ecosystem

### Operation :

A sensing ecosystem unit item will communicate with other items from the same installation by a radio frequency network. The network range will reach at least 1 Km in urban area. The piece of information sent by each item will not need to be repeated. Each item will communicate with all of the items. The item will be set up remotely thanks to the wireless communication. The items may be gathered in groups.

### Installation :

The item may be installed easily either on a pole or on a wall.  
The item will be powered by a 230 V<sub>AC</sub> / 50-60 Hz voltage.  
The item will not need any additional powering converter.  
The item will be designed to be easily connected to a junction box implemented either at the bottom of the pole either on the wall.  
The item will be designed to be installed at a height of 3.5 m at least in order to minimize any vandalism acts.

### Functions :

The item will offer one or several functions among the followings :

**Sensing** : pedestrian and/or cyclists. When no activity is detected in the area, light is dimmed down to a minimum level, creating only guidance. The slightest movement immediately restores brightness thanks to priority instructions to the LED driver (level and time adjustable) and sends wireless information to surroundings light points equipped with ecosystem item.

**Receiving** : piece of sensing RF information from another ecosystem item. According to its setup, the item will either ignore the information or restore instantly the light level when receiving the radio information through a priority task sent to the LED Driver (level and time adjustable).

**Picking up** the sensing information as soon as a sensor is activated (vehicle radar sensor, traffic sensor weather sensor,...) and send it instantly to the light points equipped with an ecosystem item.

### Hardware version :

The item is available on pole mounted or on a wall mounted version.