**1- Principle of the system**

An intelligent lighting management system will be installed in the premises concerned, ensuring that the sources are completely switched off when unoccupied. This solution will enable lighting to be managed according to the amount of natural light coming in, up to 2 groups (1st day/2nd day), to ensure a constant illumination threshold, to give the user the possibility of taking control of the lighting in "temporary derogation" mode and to create lighting scenarios. The user will call up the scenarios by push button. The principle is based on an **Addressable** **DALI BUS**. Commissioning and modifications will be carried out via a dedicated Smartphone application in BLE (Bluetooth) communication with the system. It will be the responsibility of the contractor or the manufacturer's commissioning service.

**2- Description of the equipment making up the** **system**

The principle retained will be the **DALILINK** of the brand **BEG LUXOMAT** or **technically equivalent** comprising the following equipment:

* 1. Une image contenant capture d’écran

     Description générée avec un niveau de confiance très élevé**DALI BUS power supply** type **PS-DALI-LINK-100mA** with the following characteristics:
* 230V AC mains supply / DALI BUS supply 16V DC / 100mA / 300m BUS max
* Self-addressing of the components on the BUS
* Une image contenant texte

  Description générée automatiquementControl of up to 25 DALI luminaires and 6 control devices

(Multi sensors/ BP interfaces...)

* Possibility of doubling the power supply to control up to 50 DALI luminaires and 12 control devices
* Up to 8 control zones per supply / 16 groups / 16 scenes
* Modular variant: **PS-DALILINK-USB-REG-210mA**

Control of up to 45 DALI luminaires and 10 control devices

(Multi sensors/ PB interfaces...)

Une image contenant objet

Description générée avec un niveau de confiance élevé

2.2**- Multi DALI sensors with the following characteristics:**

* Power supply and communication via DALI BUS 16V DC
* **Ultra-flat** PIR **sensor** type **PD11-DALILINK-FLAT-FC**

Range at 2.50 m installation height: Ø 9 m across, Ø6 m towards, Ø3 m seated

Protection class IP20 / Class 2/CE

* PIR **long range sensor** type **PD4N-DALILINK-SM/FC**

Range at 2.50 m installation height: Ø 24 m across, Ø 8 m towards, Ø 6,40 m seated

Une image contenant intérieur, ustensiles de cuisine, lumière

Description générée automatiquementProtection class IP20 / Class 2/CE

* PIR **high-bay sensor** type **PD4-DALILINK-GH-SM**

Range at 10 m installation height: Ø 30 x Ø 19 m towards

Protection class IP54 / Class 2/CE

* Une image contenant texte

  Description générée automatiquement**DALI PB interface** type **PBM-DALI-LINK-4W-BLE** with the following characteristics:

Power supply and communication via DALI BUS 16V DC

Bluetooth communication for setting up

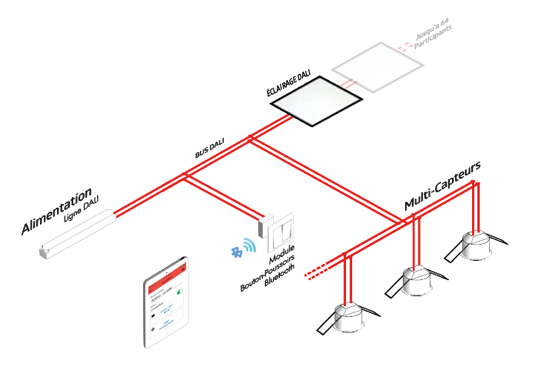
4 independently interfaceable binary inputs

Can be combined with all manufacturers’ pushbuttons

Variant without Bluetooth: **PBM-DALI-LINK-4W**

**3- System functions and architecture**

* “**Presence**" sensor function: AUTOMATIC switching on, dimming and switching off
* “**Absence**" sensor function: MANUAL switching on, dimming and AUTOMATIC switching off
* “**SOFT start**" function: gradual lighting up
* “**Override**" function: short presses "On / Off", long presses "Dimming +/-".
* “**1st day / 2nd day**" function: Management of lighting in 2 groups "corridor side / window side" by negative offset (-x%)
* “**Scenes**" function: Up to 16 configurable scenes called up by push button
* “**Stairwell**" function: Manual switch-on via push button, time-delayed switch-off from 1 to 150 minutes / advance notice of switch-off
* “**Guided Light**" function: Intelligent switching of sources and anticipation of people's movements



Une image contenant texte, équipement électronique

Description générée automatiquement