

## **Scene-setting & Lighting Control Philosophy**

Issue A – 9<sup>th</sup> October 2021

All scene setting will be programmed as per the requirements of the specification. If it is not detailed within the specification, then Simmtronic will set up all levels as per the default Control Philosophy below unless notified otherwise.

If specialist lighting scenes are required, then the scene levels for these areas must be provided to Simmtronic by the Clients team at least 14 days prior to commissioning.

### **Emergency Lighting**

- Emergency luminaires shall be connected to the DALI lighting control system to provide centralised automated monitoring and testing. The testing regime shall be as described in BS5266.

### **Fire Alarm Interface**

- On receipt of a signal from the fire alarm all lighting will default to maximum level until the signal is removed

### **Operational Hours**

- The main operational hours of the building will be 07:00hrs – 19:00hrs, Monday - Friday

### **Reception Areas**

- All lighting shall default to the correct scene for the time of day.
- Lighting scenes (e.g. Morning, Afternoon & Evening) to be triggered by the astronomical timeclock.
- Scene setting plate in reception allowed for manual over-ride
- Scenes to be confirmed by the client's team

### **Lift Lobbies**

- During operational hours, all lighting shall default to the correct scene for the time of day.
- Out of operational hours the Lift Lobbies will be controlled via presence detection.
- When presence is detected in the detector zone, all lighting in the lift lobbies shall immediately ramp up to the correct scene for the time of day
- After 20 minutes' inactivity, all DALI dimmable luminaires shall ramp down to fully off.
- Lighting scenes (e.g. Morning, Afternoon & Evening) to be triggered by the astronomical timeclock.
- Scenes to be confirmed by the client's team

### **Stairs & Stair Lobbies**

- When presence is detected in the detector zone, all lighting in the Stairs & Stair Lobbies shall immediately ramp up to the full lighting level
- After 20 minutes' inactivity, all DALI dimmable luminaires shall ramp down to fully off.

### **Toilets**

- When presence is detected in the detector zone, all lighting shall immediately ramp up to the full lighting level
- The detectors will also control the Toilet Water Solenoid Valves
- After 20 minutes' inactivity, all DALI dimmable luminaires shall ramp down to fully off.

### **Core Corridors**

- When presence is detected in the detector zone, all lighting shall immediately ramp up to the full lighting level
- After 20 minutes' inactivity, all DALI dimmable luminaires shall ramp down to fully off.

**Rooms/Offices with Retractive Switches**

- Lighting switched on utilising the retractive switch by the door.
- On/Ramp up & Off/Ramp down
- After 20 minutes' inactivity, all DALI dimmable luminaires shall ramp down to fully off.

**Rooms/Offices with Scene-setting Plates**

- Lighting switched on utilising the scene-setting plate by the door.
- Default scenes – 1. All 100%, 2. All 50%, 3 all 25%, 4 all off
- Scenes to be confirmed by the client's team
- After 20 minutes' inactivity, all DALI dimmable luminaires shall ramp down to fully off.

**Rooms/Offices with Presence detection only**

- Rooms/Offices will be controlled via presence detection.
- When presence is detected in the detector zone, all lighting in the area shall immediately ramp up to on.
- After 20 minutes' inactivity, all DALI dimmable luminaires shall ramp down to fully off.

**Plant, Risers & Roof & Switch Rooms**

- These rooms/areas are manually switched from a retractive switch beside the door, providing ON/OFF control of the lighting.

**External /Terrace Lighting**

- All external lighting shall default to the correct scene for the time of day.
- Between the hours of 0700 & 2300 Lighting scenes (e.g. Morning, Afternoon & Evening) to be triggered by the astronomical time-clock dependant on daylight levels. At all other times, the lighting will be off.
- Scenes to be confirmed by the client's team
- Scene setting plate in reception allowed for manual over-ride

**Open Plan Office Areas**

- Open Plan Office Area's will be controlled in groups up to 40m<sup>2</sup> via presence detection (if design allows)
- When presence is detected in the detector zone, all lighting in the area shall immediately ramp up to the full lighting level.
- After 20 minutes' inactivity, all DALI dimmable luminaires shall ramp down to fully off.

**Daylight Dimming – Perimeter Lighting**

- Photocell control will be set up on two rows of lights from the windows. Selected lights will dim according to daylight levels at the selected photocell sensors.
- Lights will dim to a minimum level of 5%

**Notional/Security Corridor Route**

- The Open Plan Areas Corridor Route will be controlled via presence detection.
- When presence is detected on the floor, all lighting shall immediately ramp up to the full lighting level
- 10 minutes after the last group has timed out all DALI dimmable luminaires shall ramp down to fully off.

**Notes:**

- Any Non-DALI/switched luminaires can be nominated as on/off within the scene but cannot be dimmed