# Detector DALI, Master, 41-750, 41-751, 41-760, 41-761, 41-780, 41-781, 41-784 and 41-785

**Valid for software version 9 - See versionsno.**

## Use

The 360° DALI master detector consists of a single unit containing a control unit for DALI devices in up to three daylight zones with dimming as a function of incident daylight and up to two secondary zones for On/Off or dimming depending on the configuration.

The detector is designed for indoor installation and has a built-in light sensor and IR receiver for use in offices, schools and government buildings. The detector is suitable for both large and small areas.

The detector has a built-in relay for controlling either lighting or ventilation.

Communication on the DALI bus follows the DALI addressable principle, EN/IEC 62386-101/102.

A maximum of 64 DALI Control Gear can be connected to the detector. A push-button power switch is connected directly to the detector.

The detector has a built-in DALI power supply, which must not be connected to the external DALI power supply, nor may several master detectors be connected in parallel, as this will destroy both the DALI ballasts and the detector.

The detector can be integrated into solutions with DALI system components for overriding zones, either with DALI potentiometers, Niko-Servodan PMU-DALI, type 74-597 or DALI switch, Niko-Servodan DCP-4/BI, type 70-020. The 360 ° detection range can be divided into three sectors, A – B – C, each covering 120°. Sensitivity can be adjusted either collectively for all sectors or individually for each sector. Sectors can be isolated completely. **Fig.2**

Programming and changes to settings are performed by IR remote control type 41-934 (accessory) or by the Niko Sensor Tool app and belonging IR-dongle type 41-936 (accessory). Simple overrides can be performed using the IR user remote (41-935, accessory), such as on/off and dimming, either for all zones at the same time or for each zone individually.

| Typenr. | 41-750 | 41-751 | 41-760 | 41-761 | 41-780 | 41-781 | 41-784 | 41-785 |
|---|---|---|---|---|---|---|---|---|
| Flush mounted **Fig. 3** | • | | • | | • | | • | |
| Surface mounted **Fig. 4** | | • | | • | | • | | • |
| Ceiling height 2-3,4 m | • | • | | | • | • | | |
| High ceiling 4-8 m | | | • | • | | | • | • |
| Wireless EnOcean | | | | | • | • | • | • |
| Secondary detector 41-752/753 | • | • | | | • | • | | |
| Secondary detector 41-762/763 | | | • | • | | | • | • |

## Guideline

The following guideline can be used for quick detector setup:

1. Position the detector. **Fig. 1.**
2. Connect the detector according to the circuit diagram. The detector is now in the "Out-of-the-box" mode. **Fig. 8.**
3. Test the installation for any errors or missing luminaires.
4. Initialise all DALI devices and divide the luminaires into zones. **Fig. 1.1.**
   **Note:** Now the detector operates according to factory settings
   If this is required - go directly to step 13
   For other settings continue with step 5-13
5. Select mode. **Fig. 2.1.**
6. Program the required function: Automatic On/Off or Active On/Off with automatic off via the detector for the individual zones. **Fig. 3.2.**
7. Select the number of daylight zones, 2 or 3. **Fig. 1.2.**
8. Choose whether the daylight zones are to remain at the minimum level or if they are to turn off in case of over illumination. **Fig. 9.1.**
9. Set the required lux level for the daylight zones. **Fig. 4.1.**
10. Set the maximum lux output for the lighting system. See documentation for the lighting system or measure with a lux meter. **Fig. 4.7.**
11. Configure times. **Fig. 7/Fig. 5.1-5.4.**
12. The detector makes a fine-calibration of the lux-setting based on the room reflectance, when the lux level is 100 lux and nobody is in the room (typically at night). It may in certain cases be necessary to fine tune using a lux meter. **Fig. 4.15.** This can only be performed after the detector has performed fine-calibration. **Fig. 10.2.**
13. Enable a "Burn-in". Applies to fluorescent tube lights only. **Fig. 9.3.**

## Installation

Location:

The detector responds to movement and heat in relation to the surroundings. Avoid placing the detector close to heat sources such as cookers, electric radiators or ventilation systems, or moving objects such as hanging mobiles etc. This may cause unintended activation. **Fig. 1.**

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Installation height - typeno. 41-750, 41-751, 41-780 and 41-781:
The recommended installation height for this detector is 2 – 3.4 m. 2.5 m is the ideal installation height. At this height, the detector has a range of Ø20 m on ground level and Ø13.5 m at 80 cm table height (without lens cover). **Fig. 5.**

Installation height - typeno. 41-760, 41-761, 41-784 and 41-785:
The recommended installation height for this detector is 4 - 8 m. At this height, the detector has a range of Ø16-32 m on ground level (without lens cover). **Fig. 6.**

Extending the detection area:
It is possible to increase the detection area by using a secondary presence detector, typeno 41-752, 41-753, 41-762 and 41-763. It is possible to connect ten secondary detectors to a master detector.

Note: The maximum power consumption must not be exceeded, and this is why a lower number of secondaryies is possible. **See planning.**

To achieve complete detection when using several detectors, it is recommended to calculate with an overlap of approximately 30 %. **Fig. 5 & 6.**

Daylight zones:
Zone 1 always covers the fittings closest to incident daylight (the window), zone 2 covers the fittings in the middle of the room and zone 3 covers the fittings farthest away from incident daylight.

Connection:
The detector must not be connected to a power supply until all cable connections have been connected. After connection to the power supply, the detector will be ready to operate after approximately 40 sec. (warm-up time). Connect the detector according to the circuit diagrams. **Fig. 8.**

Connection of DALI control components:
DALI components for light override are connected directly to the DALI bus, e.g. potentiometer, Niko-Servodan PMU-DALI, type 74-597 or DALI switch, Niko-Servodan DCP-4/BI, type 70-020 for override of daylight zones 1 and 2, as well as secondary zone 3 or 4.

To control the light correctly, the DALI switches and potentio-meters must be configured for the zone (group) required.

The daylight zones: Configured as Group 10 for push buttons or potentiometer, which has the same function as push button 1+2.

Secondary Zone 3: Configured as Group 11 for push buttons or potentiometer, which has the same function as push button 3.

Secondary Zone 4: Configured for Group 12 for push buttons or potentiometer, which has the same function as push button 4.

As many push buttons as required can be connected. Remember that the maximum current of 200 mA must not be exceeded. It is possible to have multiple switches or potentiometers for the same function, such as for overriding zone 4. **Table 2.**

"Out-of-the-box" function:
Once the detector has been connected to the power supply and before the detector has initialised the DALI devices, all connected fittings will illuminate and the detector will function as an On/Off detector for all connected fittings. Off delay time is 15 min.

It is possible to switch all luminaires on and off manually via the connected 230 V push buttons or via the IR remote control type 41-934 (accessory) or by the Niko Sensor Tool app and belonging IR-dongle type 41-936 (accessory). All 230 V push buttons have the same function.

All LEDs (red, blue, yellow, green) will flash alternately to indicate that the detector has not been configured with the DALI setup.

## Settings

Factory setting::

| | |
|---|---|
| App.: | Mode 2, Daylight control and relay output for light On/Off. |
| Function: | Automatic on/off via detector |
| Zones: | 2 daylight zones and 2 secondary zone |
| Lux: | 300 lux |
| Time 1 (Off delay): | 15 minutes **Fig. 7.** |
| Time 2 (HVAC): | 30 minutes |
| Time 3 (Standby min.): | 60 minutes |
| Time 4 (Orientation light): | 10 minutes |
| Min/Off: | Minimum, daylight zones remain at minimum level in case of over-illumination. |
| Sensitivity: | High sensitivity, all sectors |

Modes:
The presence detector can be set up in the following modes:

| | |
|---|---|
| Mode 1: | Daylight control of up to three zones with relay output for HVAC |
| Mode 2: | Daylight control of up to three zones with relay output for light, On/Off |
| Mode 3: | Daylight control of up to three zones with relay output for Standby min. |
| Mode 4: | Daylight control of up to three zones with day/night light and relay output for HVAC |

Get more functions by using the Niko Sensor Tool app.

## Accessories

IR-dongle ..... 41-936
IR remote control ..... 41-934
IR user remote ..... 41-935
Fittingring ..... 41-990

## Remote control

Programming functions using IR remote control tyep 41-934 (accessory).

See the guideline for programming. **Fig. 10.**

The detector must be unlocked for setting all configurations except "Status", "1", "2", "3", "4", "On/Off", "Auto", "Dim +" and "Dim –". The detector locks automatically after five minutes, if this is not done manually after the last time a button is activated. Any changes to settings will be saved. During programming, the green LED briefly switches off to acknowledge the correct receipt of information when a button is pushed on the IR remote control type 41-934 (accessory).

## Operation & maintenance

Dirt affects the operation of the detector and the detector's lens must therefore be kept clean. Use a damp cloth for cleaning. Use water mixed with ordinary detergent. Avoid pressing hard on the lens. If the lens or other parts of the detector are defective, it/they must be replaced.

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## Technical data

Input:
Supply voltage ..... 230 V AC ±10 %, 50 Hz
Power consumption ..... 0,45 W

Output:
Relay, dry contact ..... μ 10 A, 250/400 V AC, NO
Max. compensation capacity ..... 140 μF
Max. starting current ..... 165 A/20 m sec.
800 A/200 μ sec.
DALI ..... 1-64 divices
13 V DC/200 mA
Secondary detectors ..... up to 10 pcs.

Load:
Incandescent and halogen lamps ..... 2300 W cos φ = 1
Fluorescent tubes ..... 1200 VA cos φ ≥ 0.5
Fluorescent tubes HF-ballast ..... 1200 VA cos φ ≥ 0.9
Halogen electronic transformer ..... 500 VA
LED elektronic driver ..... 500 VA
LED lamps 230 V AC ..... 350 W
Energy-saving lamps, CLF ..... 58 pcs. (18 W)

Performance:
Lux range ..... 100 – 2.000 lux
Time range (preset settings) ..... 5 min. - ∞
Detection area ..... (3x120°) 360°
Sensitivity ..... 4 settings
Protection class
(gasket is mounted) ..... IP 54
Colour ..... RAL 9010 (White)
Ambient temperature ..... -5°C ... +50°C

Performance typeno 41-750, 41-751, 41-780 and 41-781:
Detection range for body movement
(at installation height of 3 m) ..... 452 $m^2$
Range for small movements
(at 2.5 m installation height) ..... 9 $m^2$
Installation height ..... 2 – 3,4 m

Performance typeno 41-760, 41-761, 41-784 and 41-785:
Detection range for body movement ..... Ø16-32 m
Installation height ..... 4 – 8 m

Certifications:
CE in accordance with ..... EN 60669-2-1

## LED status

Overview of LED status: **Table 1.**

| Status | Indication |
|---|---|
| "Out of the box" | All LEDs illuminate red, blue, yellow and green alternately. The detector is connected but not initialised. |
| Unlock | The green LED illuminates when the detector is in setting mode and is ready for configuration via IR remote type 41-934 (accessory). |
| Lock | The green LED switches off. The detector is locked and the most recently programmed changes are saved. |
| Initialisation | The red and green LEDs flash for 1 sec. On and 1 sec. Off during initialisation. |
| Zone allocation | When the correct zone is selected, the green LED will flash. If the wrong zone is selected, the green LED will switch off for one second and the red LED will illuminate for one second. When all units are addressed, the yellow LED will illuminate for one second. |
| Test mode sector A | The red LED will flash when activity is detected in sector A. |
| Test mode sector B | The green LED will flash when activity is detected in sector B. |
| Test mode sector C | The blue LED will flash when activity is detected in sector C. |
| IR remote control (accessory) | Each time the detector receives a correct signal from the IR remote control, the detector will acknowledge by briefly switching off the green LED if the detector is being programmed. In operating mode, the green LED will flash once. |
| Dim + | The green LED flashes for as long as the button is held down. |
| Dim - | The green LED flashes for as long as the button is held down. |
| 8 hour<br>For regulation of HVAC | The blue LED flashes for 1 sec. On and 1 sec. Off when the function is active and the detector is in operation mode. |
| Burn in | The yellow LED flashes for 1 sec. On and 1 sec. Off when the function is active. |
| Use the Niko Sensor Tool app and IR dongle to send configuration to the detector | The yellow LED flashes three times if the detector has not received a complete IR information package or if the detector does not understand IR information. This may be because the software in the detector is an older version. |

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## Project planning

Power consumption:

The total power output that the detector can supply is 200 mA. This value must **NOT** be exceeded. This must be noted when installing DALI components.

Overview of typical power consumption: **Table 2.**

| DALI component | Power consumption |
|---|---|
| DALI ballast | Max. 2 mA |
| Dimmer potentiometer PMU-DALI, type 74-597 | Max. 6 mA |
| Presence detector, flush mounted, DALI secondary, type 41-752 | Max. 5,5 mA |
| Presence detector, surface mounted, DALI secondary, type 41-753 | Max. 5,5 mA |
| Motion detector, flush mounted, DALI secondary, 8 m High Ceiling, type 41-762 | Max. 5,5 mA |
| Motion detector, surface mounted, DALI secondary, 8 m High Ceiling, type 41-763 | Max. 5,5 mA |
| Inputmodule DCP-4/BI DALI with 4 inputs, type 70-020 | Max. 6 mA |
| DALI module DBC-1/TH for folding door and neighbouring zone control, type 70-021 | Max. 14 mA |

Ex. 1: The following components have been installed for lighting control in an office:

| Quantity | Component | Power consumption | Total power consumption |
|---|---|---|---|
| 48 | Luminaires with 1 DALI ballast/luminaires | 2 mA | 96 mA |
| 4 | Dimmer potentiometer PMU-DALI, type 74-597 | 6 mA | 24 mA |
| 1 | Input module DCP-4/BI DALI with 4 inputs, type 70-020 | 6 mA | 6 mA |
| | | | **126 mA** |

Total power consumption for the connected DALI components is < 200 mA.

Ex. 2: The following components have been installed for lighting control in a conference room:

| Quantity | Component | Power consumption | Total power consumption |
|---|---|---|---|
| 56 | Luminaires with 1 DALI ballast/luminaires | 2 mA | 112 mA |
| 4 | Input module DCP-4/BI DALI with 4 inputs, type70-020 | 6 mA | 24 mA |
| 1 | Presence detector flush mounted DALI secondary type 41-752 | 5,5 mA | 5,5 mA |
| 1 | DALI module DBC-1/TH for folding door and neighbouring zone control, type 70-021 | 14 mA | 14 mA |
| | | | **155,5 mA** |

Total power consumption for the connected DALI components is < 200 mA.

## Glosary

Mode = Application, the way in which the detector will function.

Active On = The detector only switches on the light if the push button or potentiometer is activated, depending on the lux setting. The light switches off automatically after a preset time after the last registered activity.

Auto On/Off = The detector switches the light on automatically depending on the lux setting when activity is registered in the detection area. The light switches off automatically after a preset time after the last registered activity.
Constant On = Activation of Switch 1+2 (on > 10 sec.), light in the daylight zones is first adjusted to the maximum, flashes twice. The light switches on at the maximum and only switches off two hours + Time 1 (delay) after the last registered activity. The time is reset each time that activity is detected. The red LED illuminates in the detector to indicate active function. To cancel this function again, briefly activate Switch 1+2, the red LED in the detector will switch off. This function is intended for use during examinations.

Constant Off = Activation of Switch 1+2 (on > 10 sec.), light is first adjusted to the minimum, flashes twice. The light switches off and remains off, only switching on two hours + Time 1 (delay) after the last registered activity. The time is reset each time that activity is detected. The red LED illuminates in the detector to indicate active function. To cancel this function again, briefly activate Switch 1+2, the red LED in the detector will switch off.

Manuel override = Using a 230 V push button or DALI control parts, all zones can be controlled manually, either on/off or dimming. When manual override is active daylight control is deactivated.

Daylight control can be activated again in one of the following ways:

1. Press "Auto" on IR remote control type 41-934 (accessories) or IR user remote control type 41-935 (accessories).
2. Turn off and then turn the light on again on push buttons (Push button 1+2).
3. Wait until the expiry of the off delay time (Time 1) and orientation light time. (Time 4). **Fig. 7.**
4. By activating the "Auto" (scene 15), which is programmed on DCP-4 / BI, type 70-020 (accessories).

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**Fig. 1**

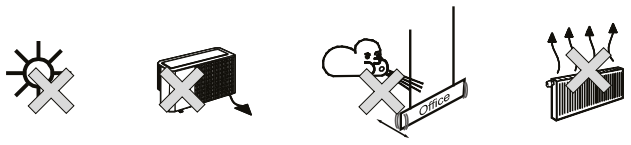



**Fig. 2**

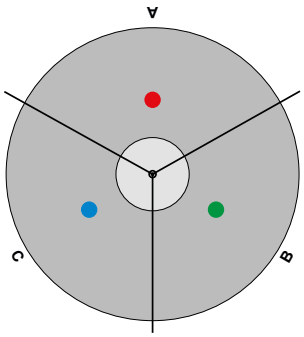
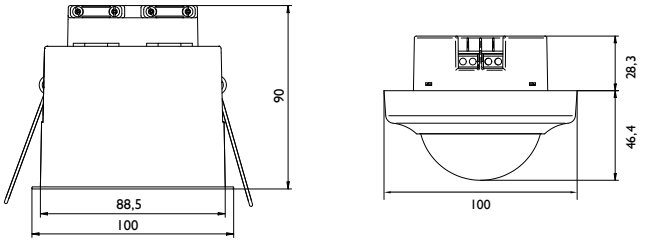
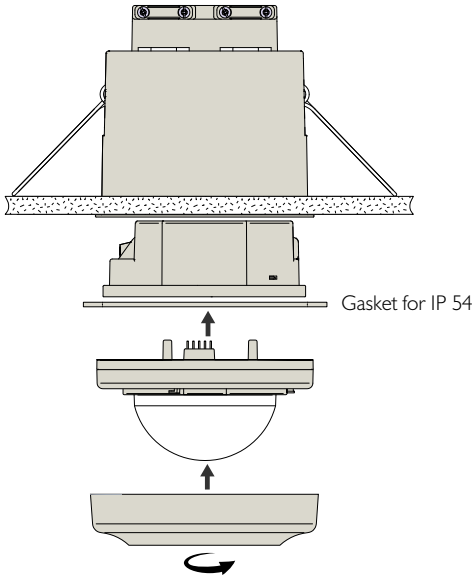
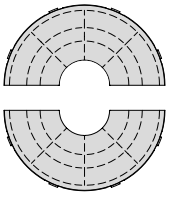



**Fig. 3 - typeno. 41-750, 41-760, 41-780, 41-784**

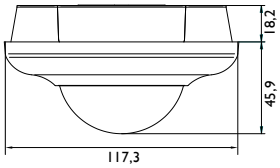


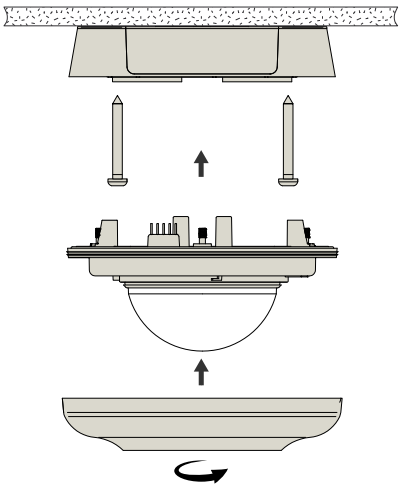



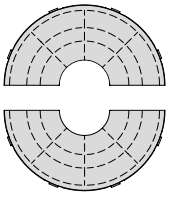



Lens cover

**Fig. 4 - typeno. 41-751, 41-761, 41-781, 41-785**





Lens cover

**Fig. 5 - typeno. 41-750, 41-751, 41-780, 41-781**

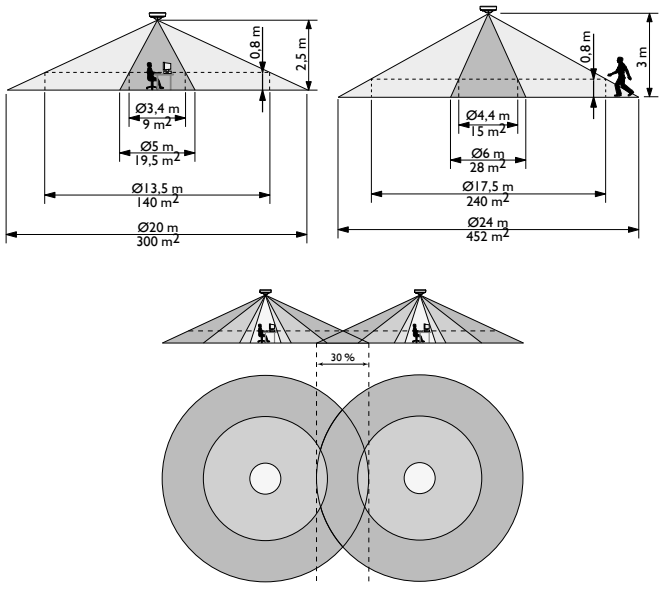
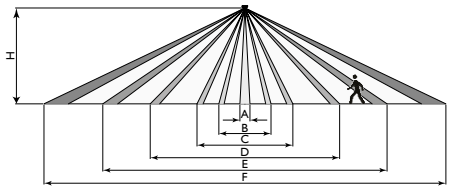



**Fig. 6 - typeno. 41-760, 41-761, 41-784, 41-785**




| Height (H) | 4 m | 5 m | 6 m | 7 m | 8 m |
|---|---|---|---|---|---|
| A | Ø0,20 | Ø0,25 | Ø0,30 | Ø0,40 | Ø0,50 |
| B | Ø2,00 | Ø2,50 | Ø3,00 | Ø3,50 | Ø4,00 |
| C | Ø3,70 | Ø4,70 | Ø5,50 | Ø7,00 | Ø7,50 |
| D | Ø6,50 | Ø8,50 | Ø10,00 | Ø11,50 | Ø14,00 |
| E | Ø11,00 | Ø14,00 | Ø17,00 | Ø20,00 | Ø22,00 |
| F | Ø16,00 | Ø20,00 | Ø24,00 | Ø28,00 | Ø32,00 |

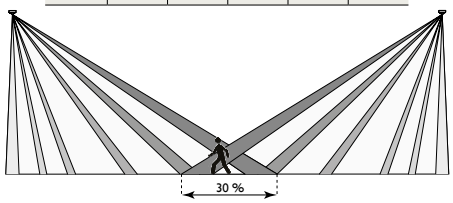
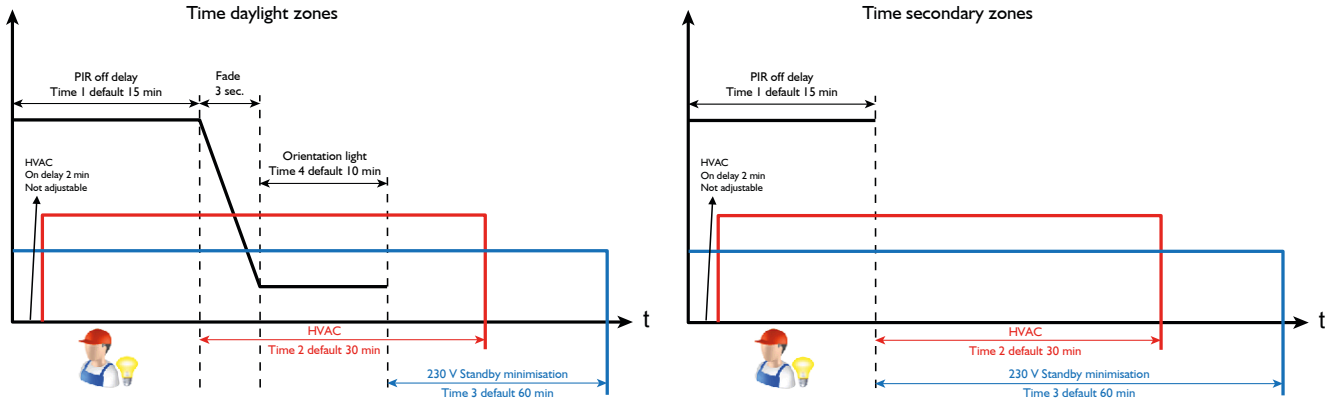



**Fig. 7**




**Advarsel:** Indbygning og montering af elektriske apparater må kun foretages af aut. elinstallatør. Ved fejl eller driftforstyrelser kontakt den aut. elinstallatør. Ret til ændringer forbeholdes!

**Warning:** Installation and assembly of electrical equipment must be carried out by qualified electricians. Contact a qualified electrician in case of fault or breakdown. Reserving the right to make changes!

**Warnung:** Einbau und Montage elektrischer Geräte dürfen nur durch Elektrofachkräfte erfolgen. Wenden Sie sich bei Störungen bzw. Ausfall an einen Elektrofach-kraft. Änderungen vorbehalten!

**Avertissement:** L'installation et le montage d'appareils électriques doivent exclusivement être exécutés par un électricien agréé. En cas de défaut ou de perturbation du fonctionnement, contacter un installateur électricien agréé. Sous réserve de modifications!

**Varning:** Elektriska apparater får endast byggas in och monteras av en auktoriserad elinstallatör. Kontakta den auktoriserade elinstallatören vid fel eller driftstörningar. Med reservation för ändringar!

**Advarsel:** Innbygging og montering av elektriske apparater må kun utføres av autorisert elektriker. Autorisert elektriker skal også kontaktes ved feil eller driftsforstyrrelser. Det tas forbehold om endringer!

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**Fig. 8.1 - typeno. 41-750, 41-760, 41-780, 41-784**

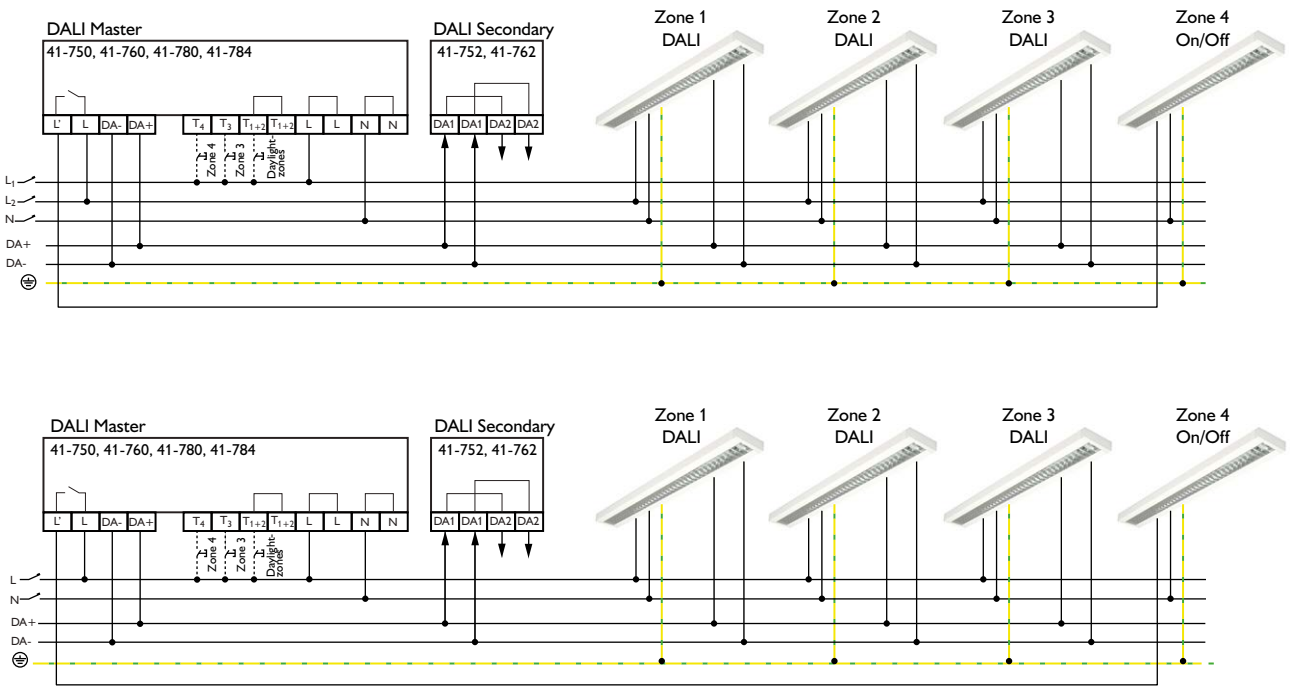


**Fig. 8.2 - typeno. 41-751, 41-761, 41-781, 41-785**

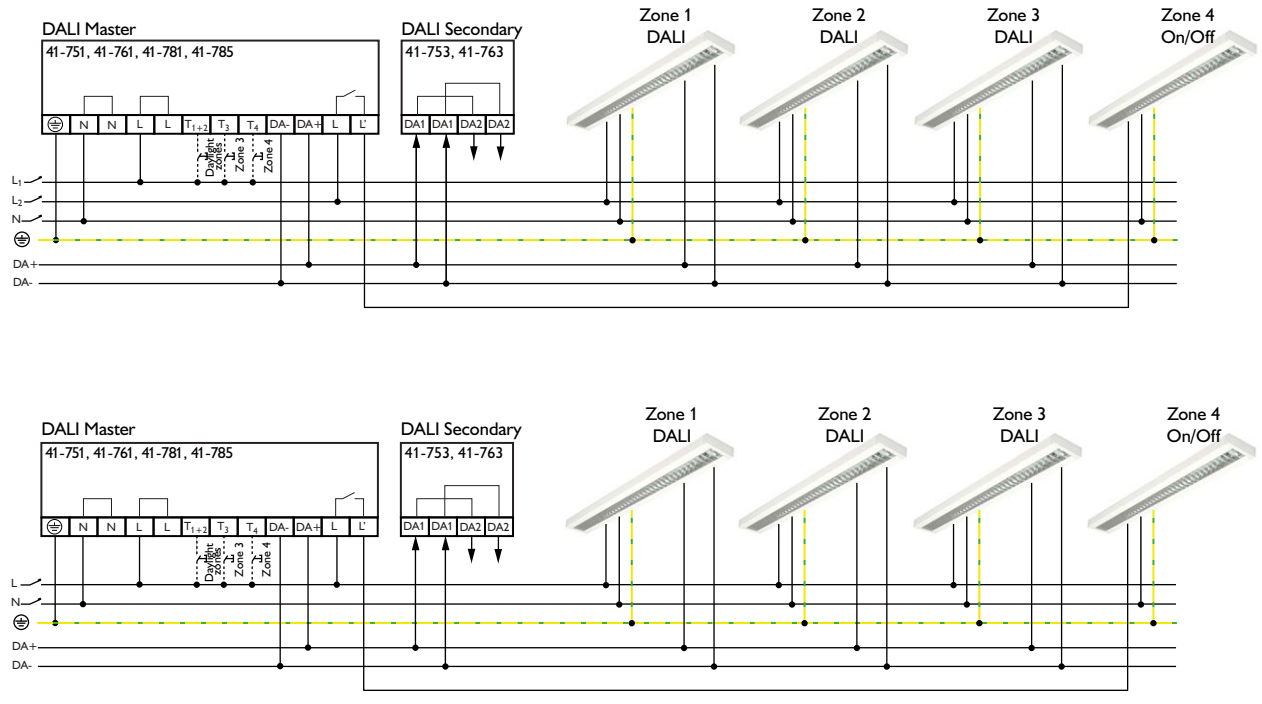


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**Fig. 9.1 Check software version via Niko Sensor Tool app**

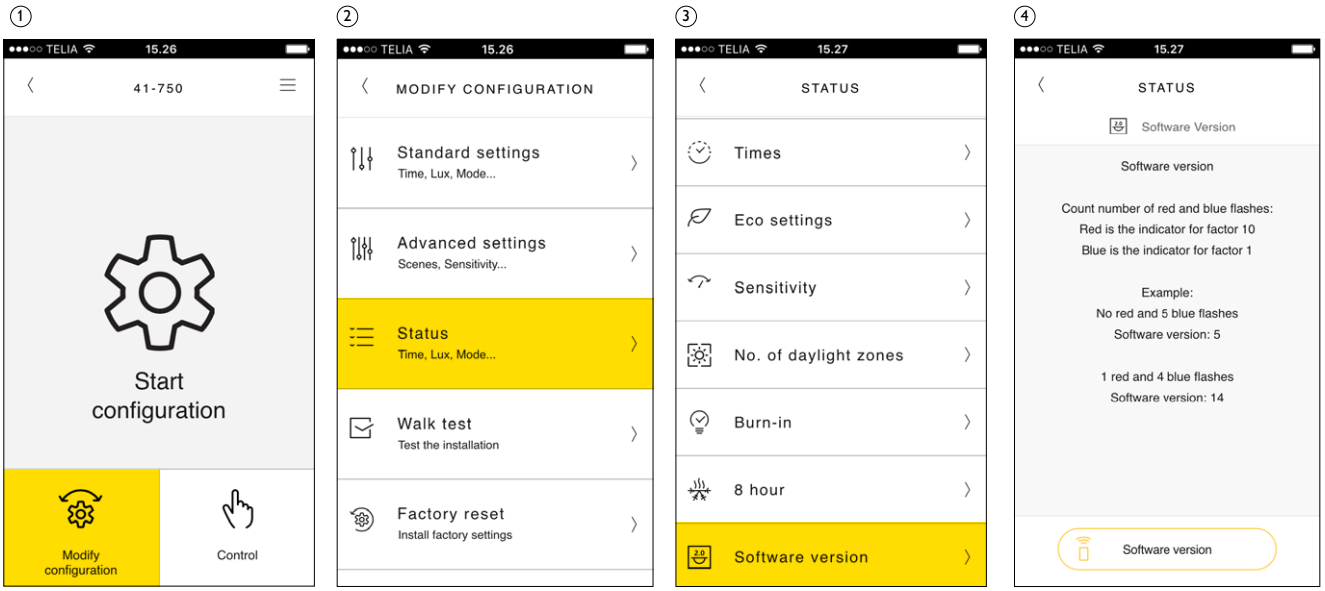



**Fig. 9.2 Check software version via IR remote control**

FROM SOFTWARE VERSION 6

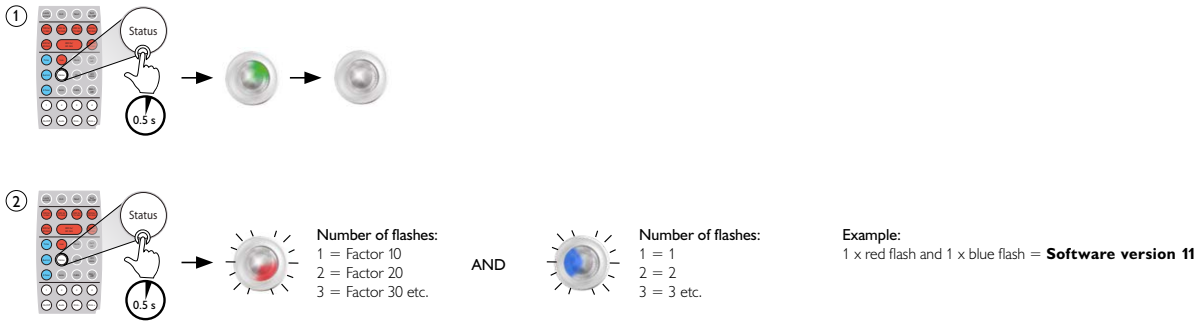
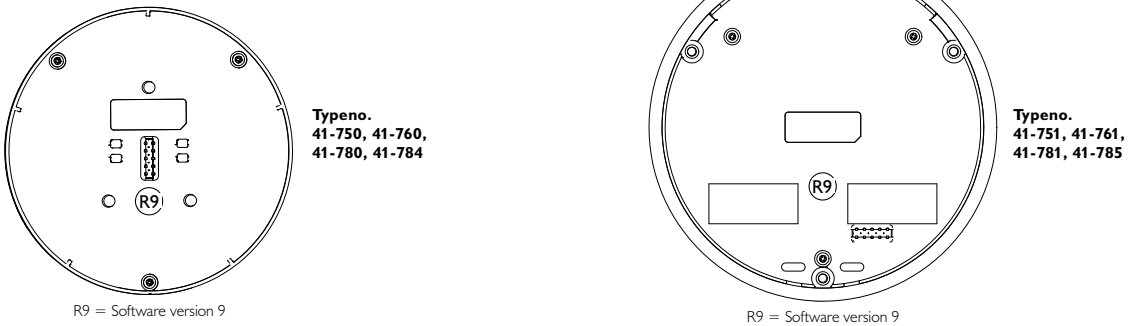



**Fig. 9.3 Check software version on the detector part**



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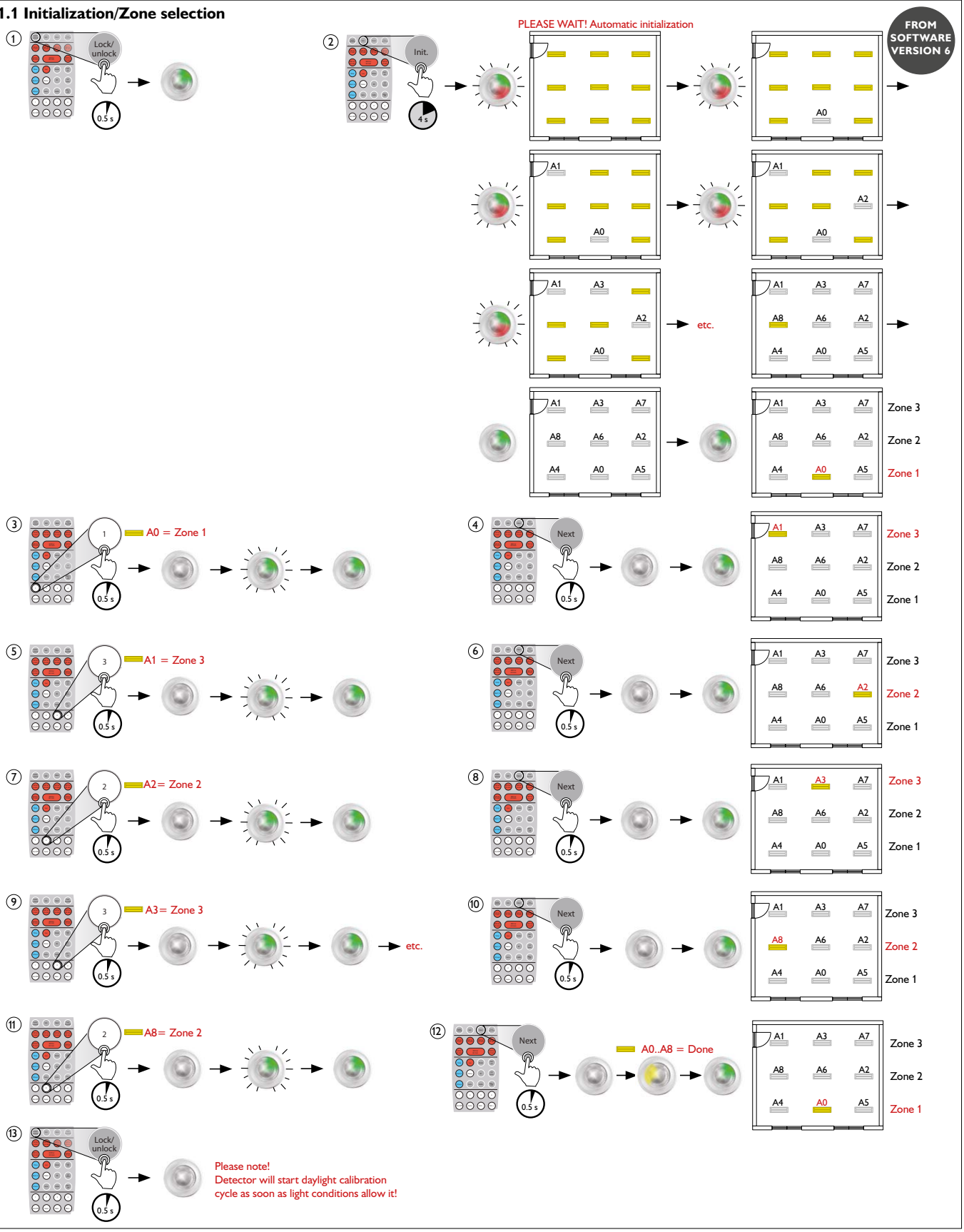
## 1.1 Initialization/Zone selection



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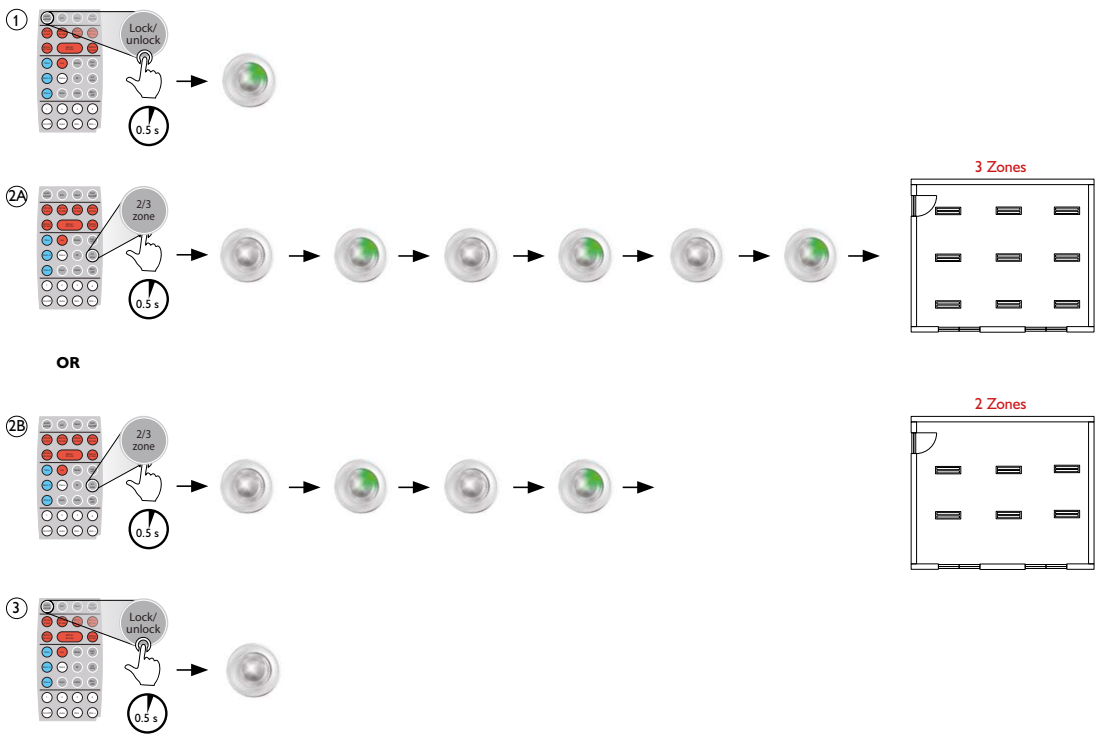
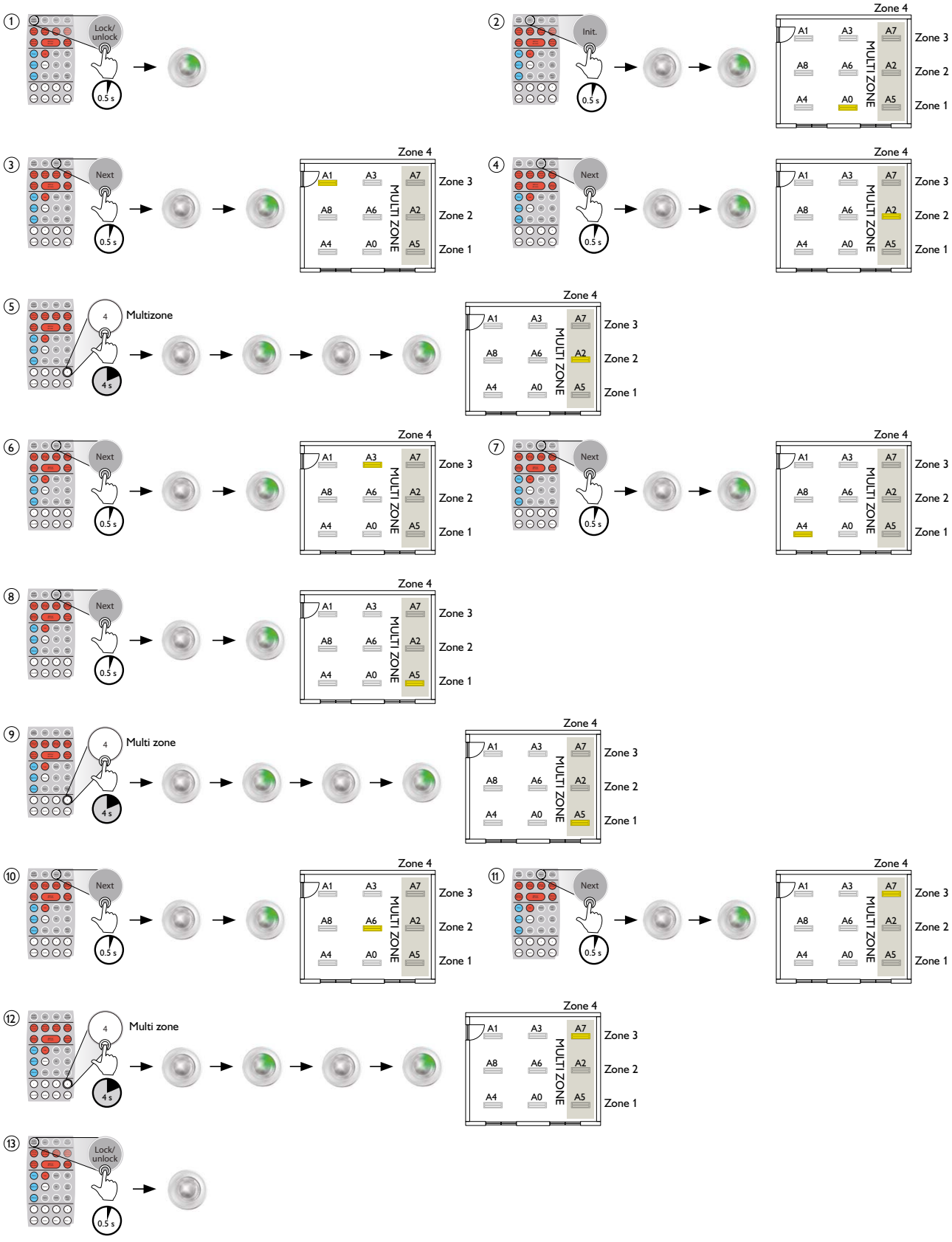
**1.2 Select 3 or 2 daylight zones**



**Return to overview**

## 1.3 Program multi zone



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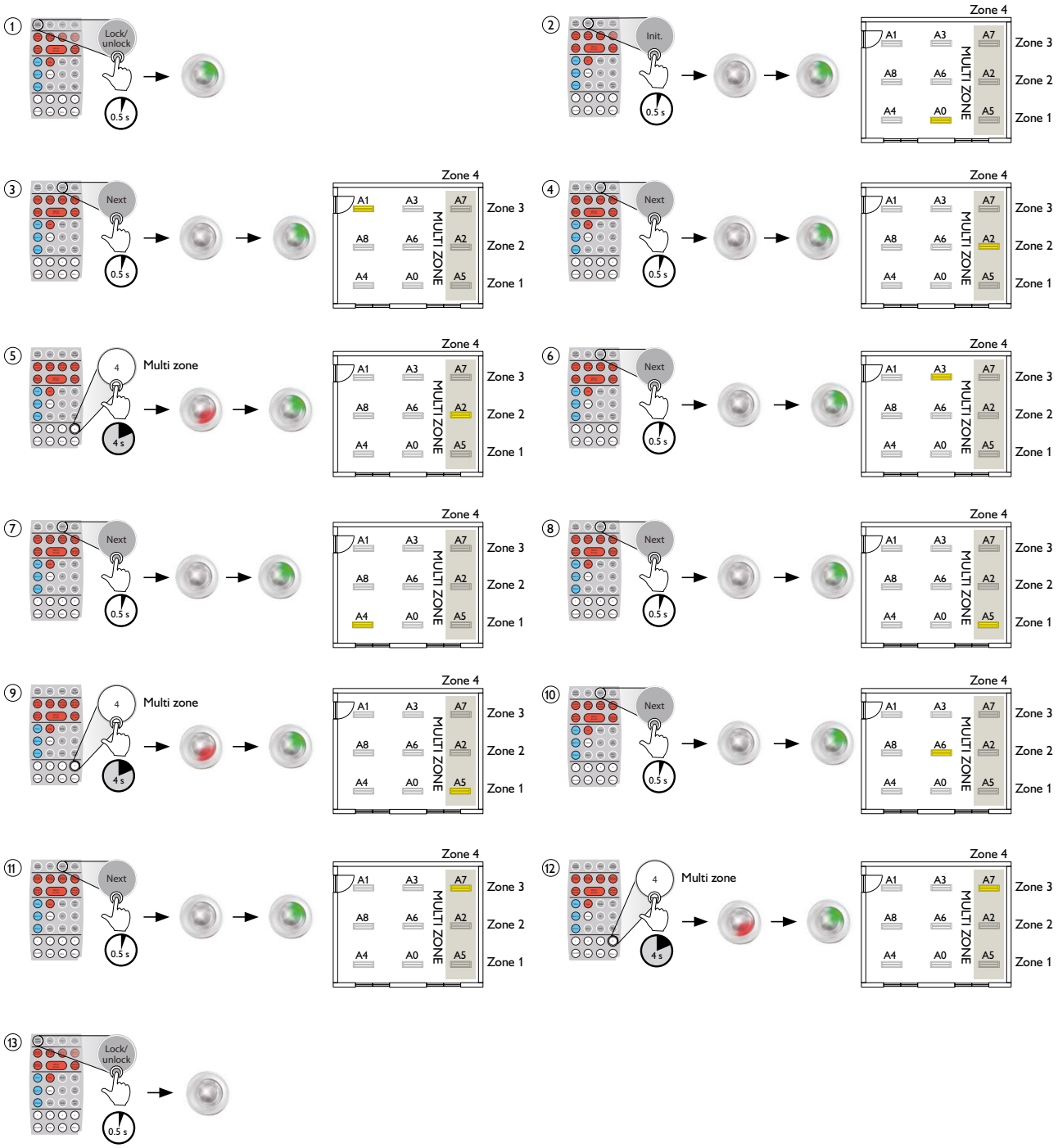
## 1.4 Remove luminaires from multi zone



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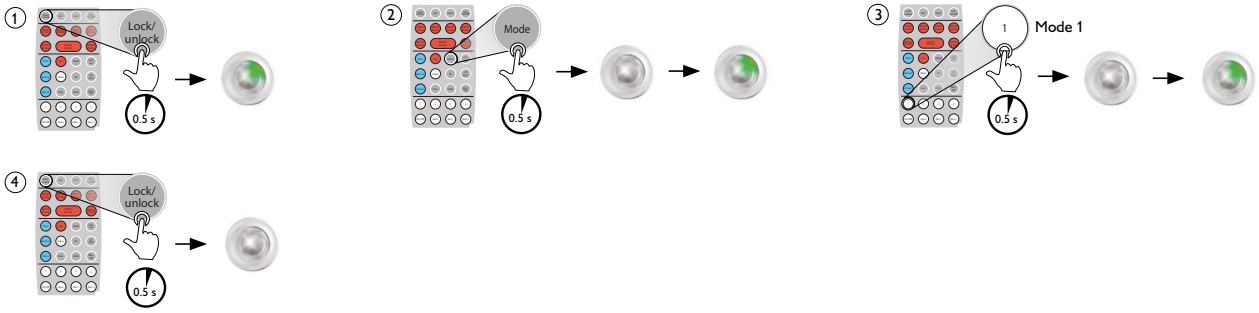
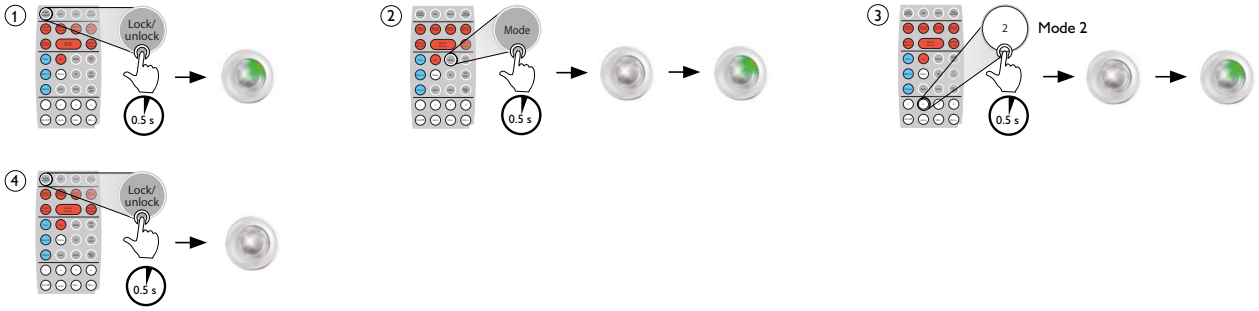
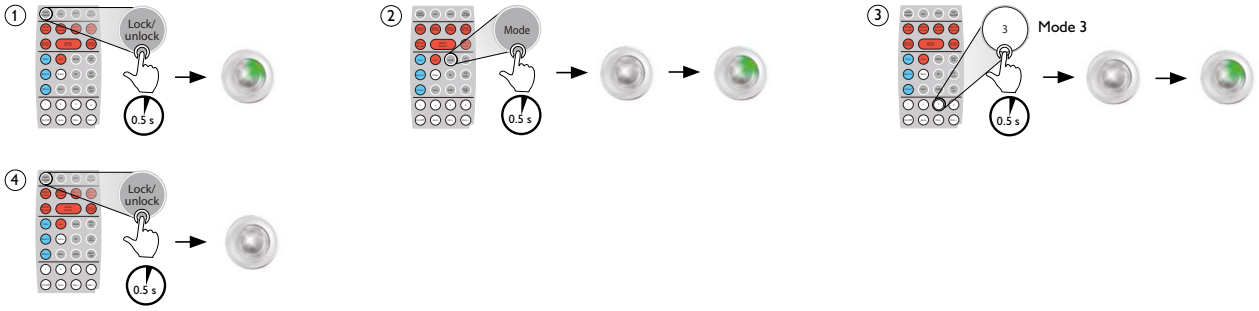
### 2.1 Mode 1 - Daylight control with HVAC output



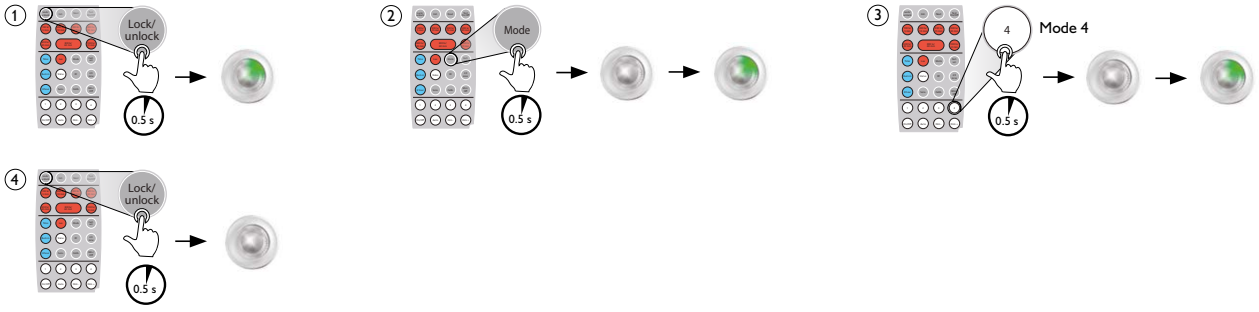

### 2.2 Mode 2 - Daylight control with relay for lighting (On/Off) - factory setting




### 2.3 Mode 3 - Daylight control with relay for Standby minimisation




### 2.4 Mode 4 - Daylight control with day/night function

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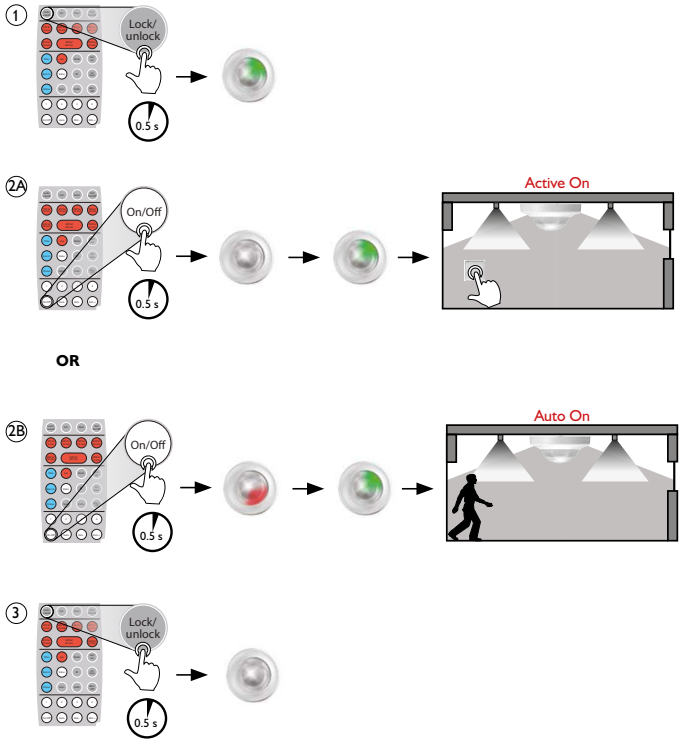
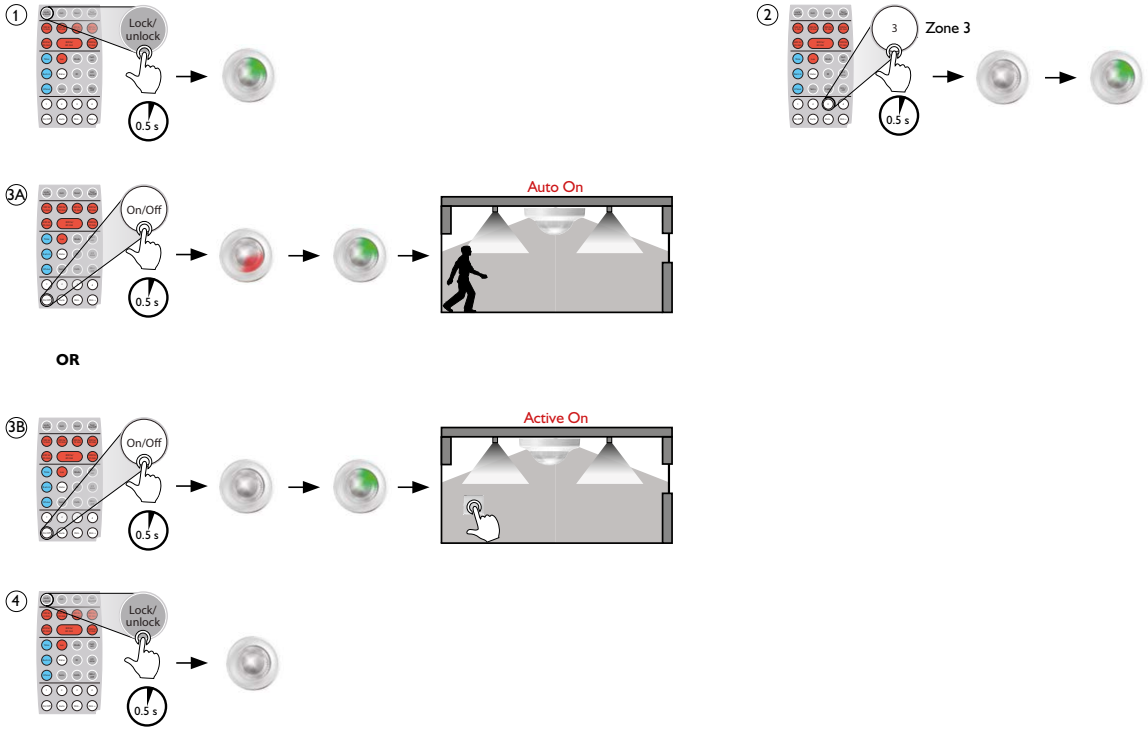
**Return to overview**

### 3.1 Select between Auto On or Active On (daylight zones)




### 3.2 Select between Auto On or Active On (Secondary zone 3)

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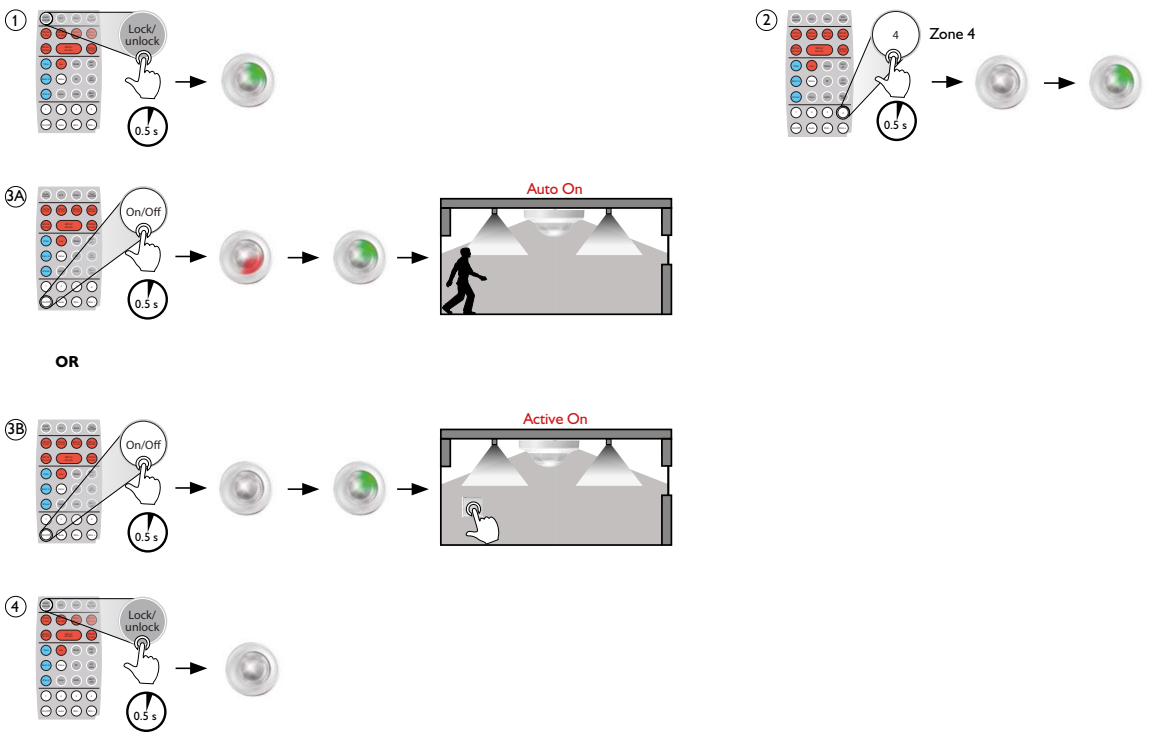
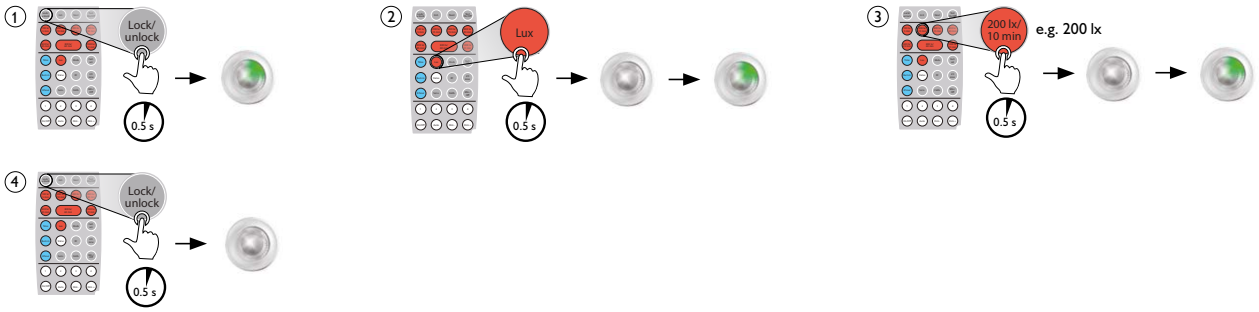
### 3.3 Select between Auto On or Active On (Secondary zone 4)

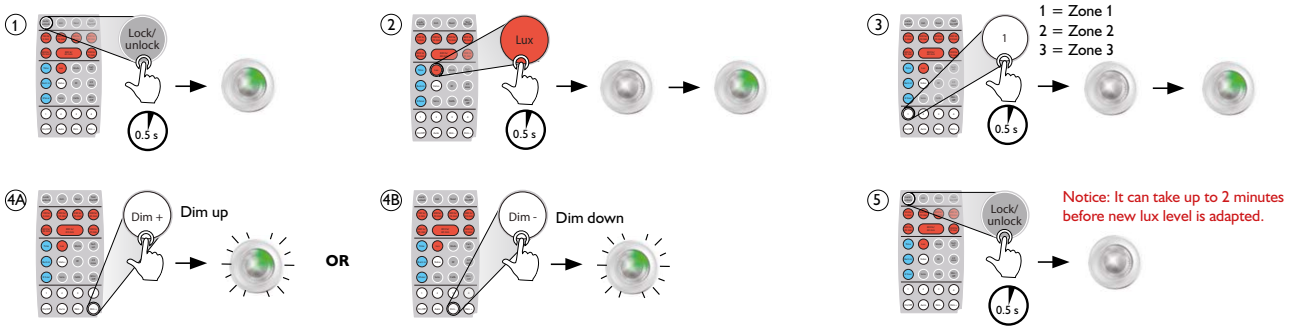


**Return to overview**

### 4.1 Required lux level and max output, luminaires: (See also step 4.7 "Max lux output, luminaires")

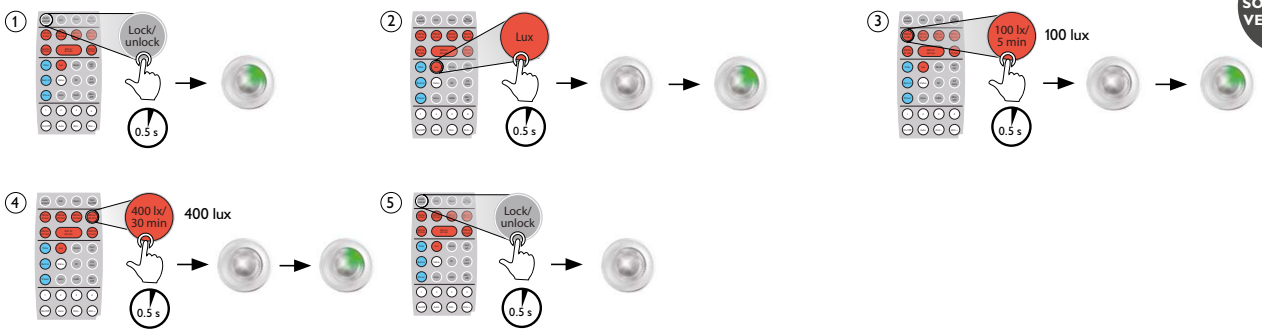



### 4.2 Adjust lux level zone 1 (zone 2 and zone 3)



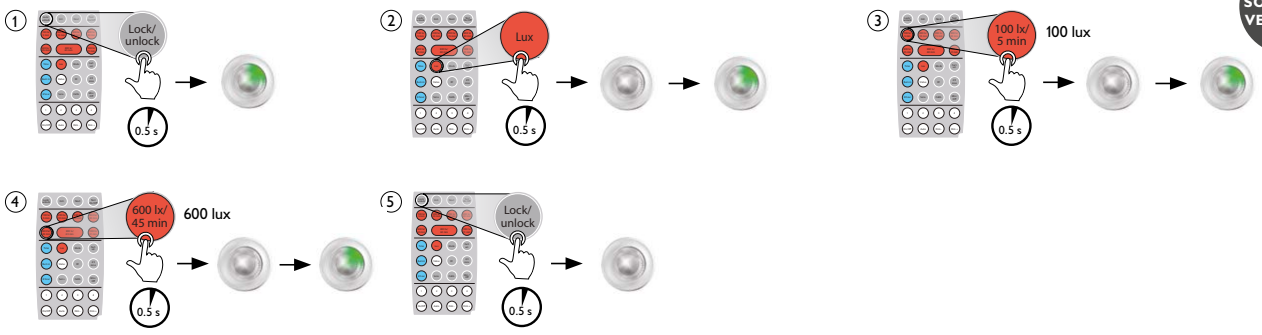

### 4.3 Required lux level and max output, luminaires, 500 lux (See also step 4.7 "Max lux output, luminaires")

FROM SOFTWARE VERSION 6




### 4.4 Required lux level and max output, luminaires, 700 lux (See also step 4.7 "Max lux output, luminaires")

FROM SOFTWARE VERSION 6

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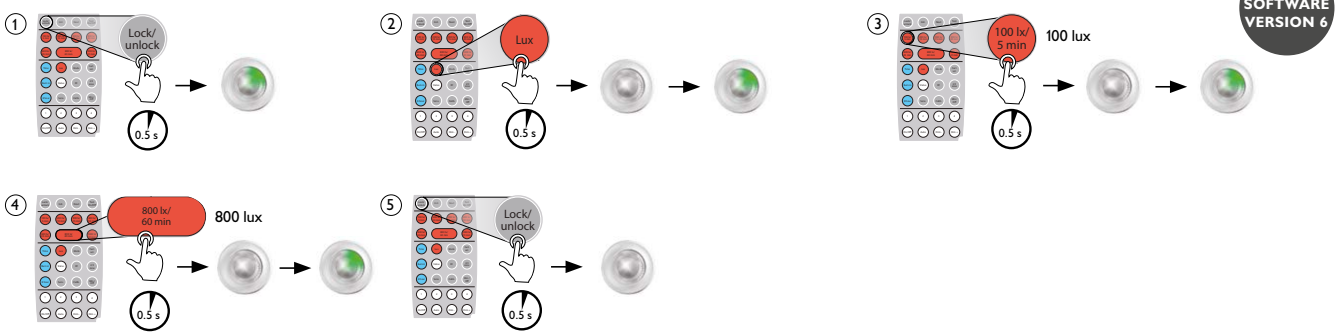
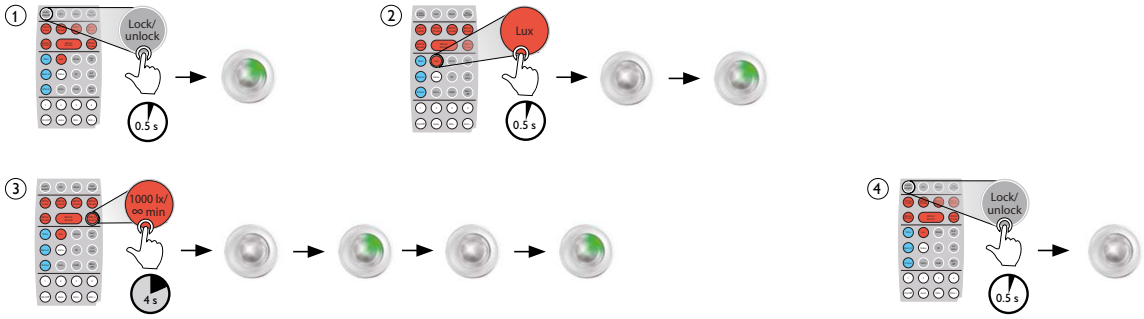
**Return to overview**

## 4.5 Required lux level and max output, luminaires, 900 lux (See also step 4.7 "Max lux output, luminaires")

FROM SOFTWARE VERSION 6

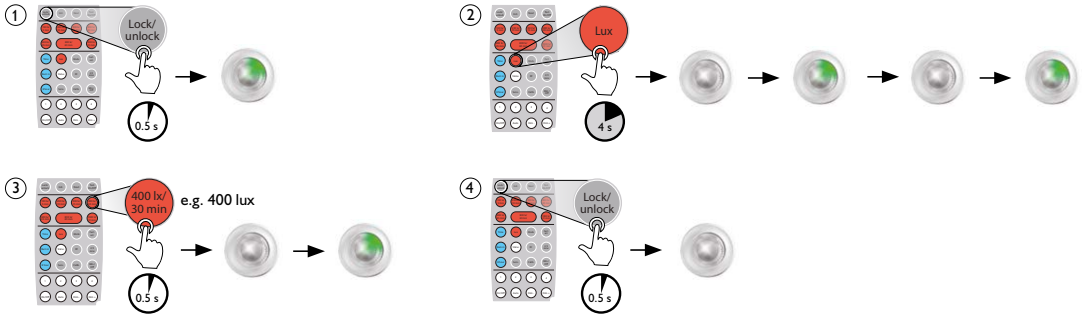



## 4.6 Lux level 2000 and max output, luminaires




## 4.7 Max lux output, luminaires (Step 4.1 must be done first)

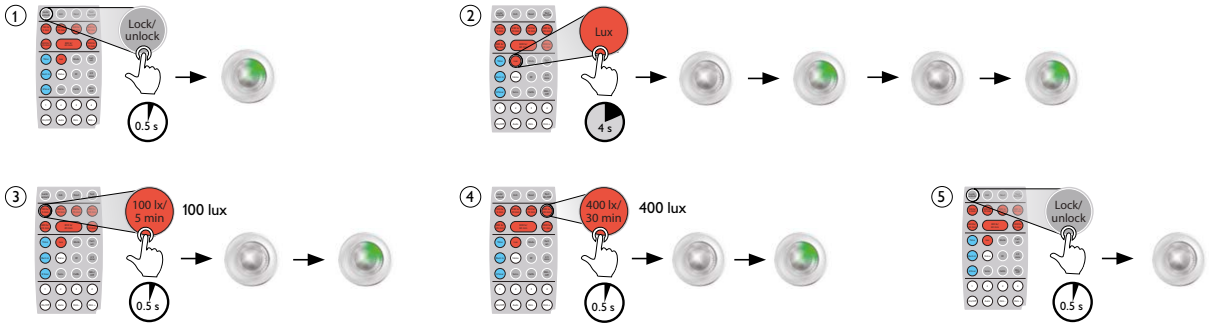
Only if the luminaires are capable of giving more light than the required light level.




## 4.8 Max lux output, luminaires, 500 lux (Step 4.1 must be done first)

Only if the luminaires are capable of giving more light than the required light level.

FROM SOFTWARE VERSION 6

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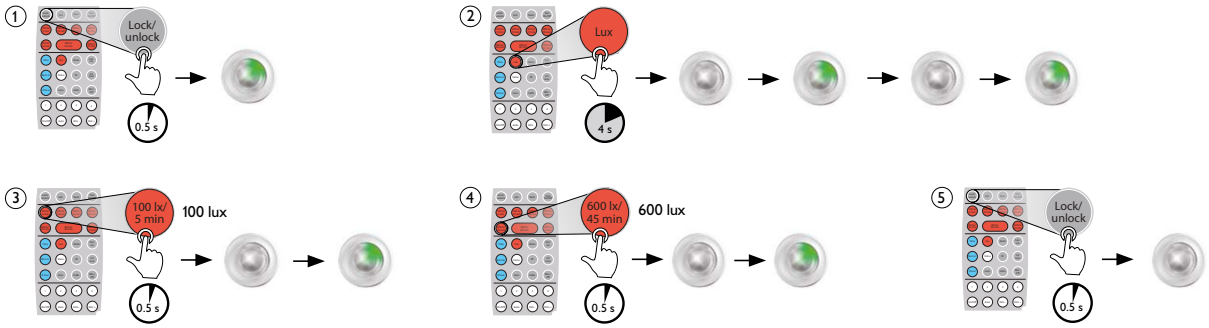
## 4.9 Max lux output, luminaires, 700 lux (Step 4.1 must be done first)

FROM SOFTWARE VERSION 6

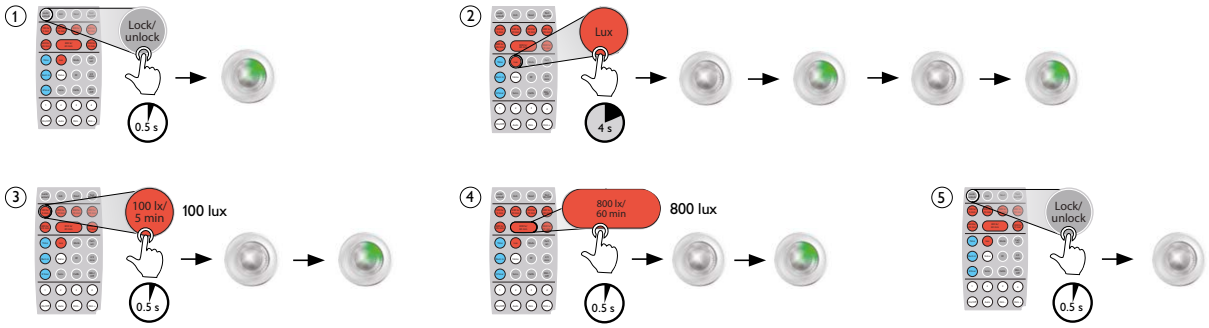
Only if the luminaires are capable of giving more light than the required light level.




## 4.10 Max lux output, luminaires, 900 lux (Step 4.1 must be done first)

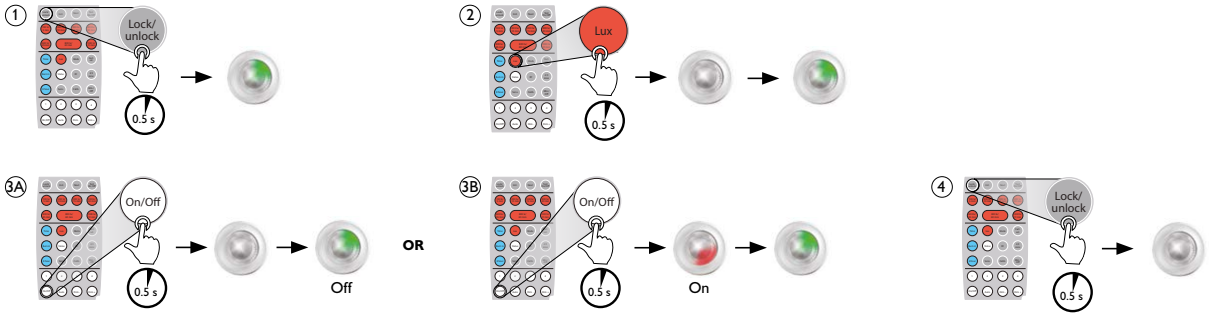
FROM SOFTWARE VERSION 6

Only if the luminaires are capable of giving more light than the required light level.



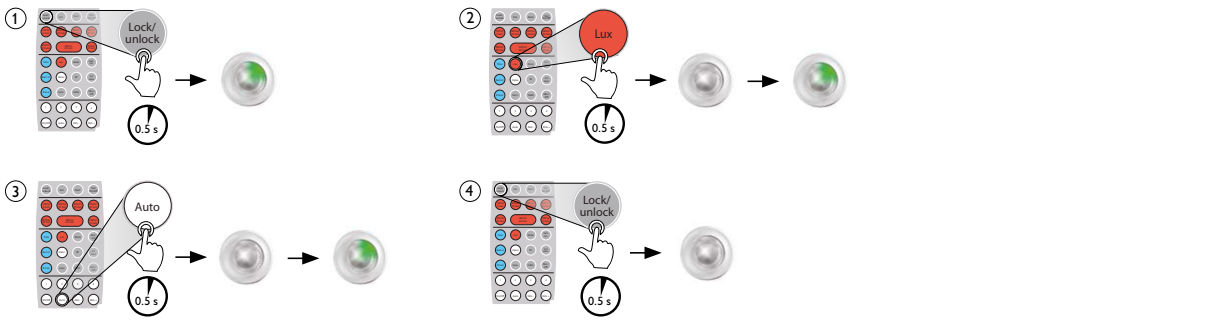

## 4.11 User dynamic lux setting, toogle

FROM SOFTWARE VERSION 6




## 4.12 User dynamic lux setting, Off

FROM SOFTWARE VERSION 6

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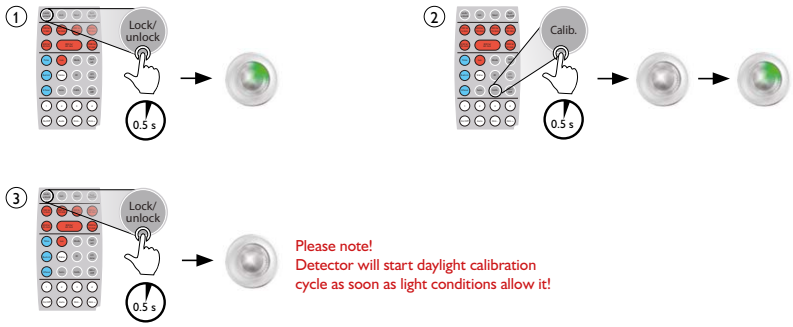
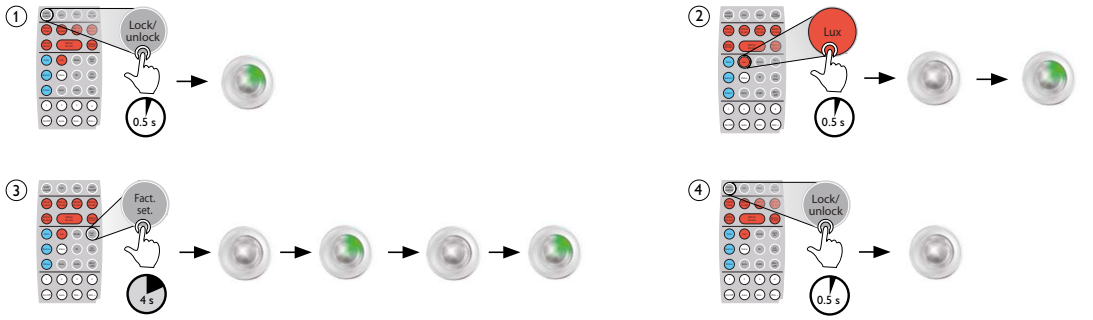
## 4.13 Program new daylight calibration



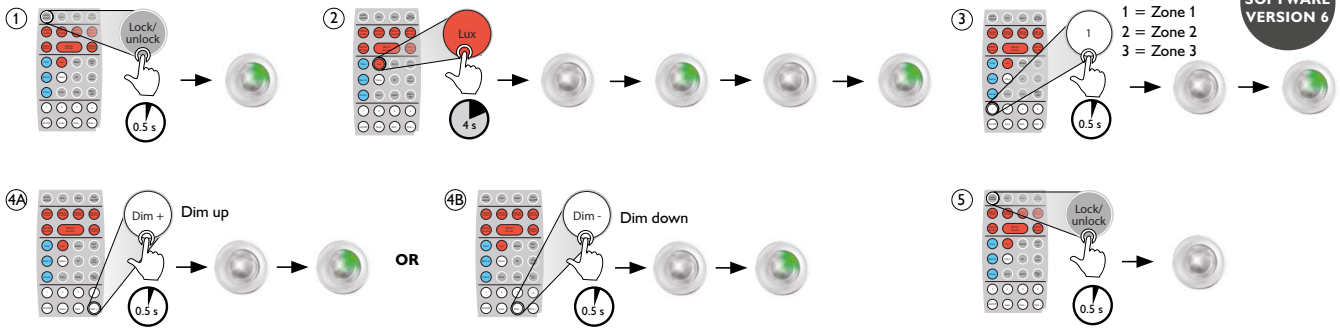

## 4.14 Reset daylight parameters to factory settings

FROM SOFTWARE VERSION 7




## 4.15 Daylight factor, change to actual light conditions (Step 4.1 must be done first)

FROM SOFTWARE VERSION 6

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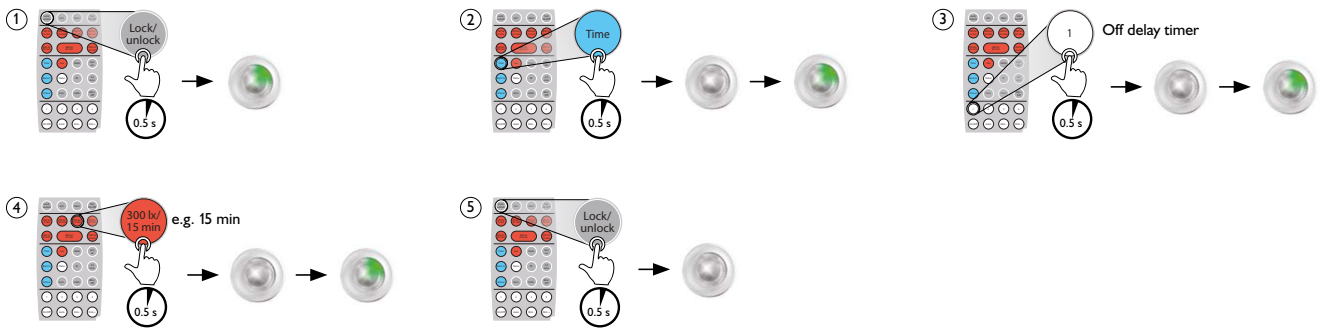
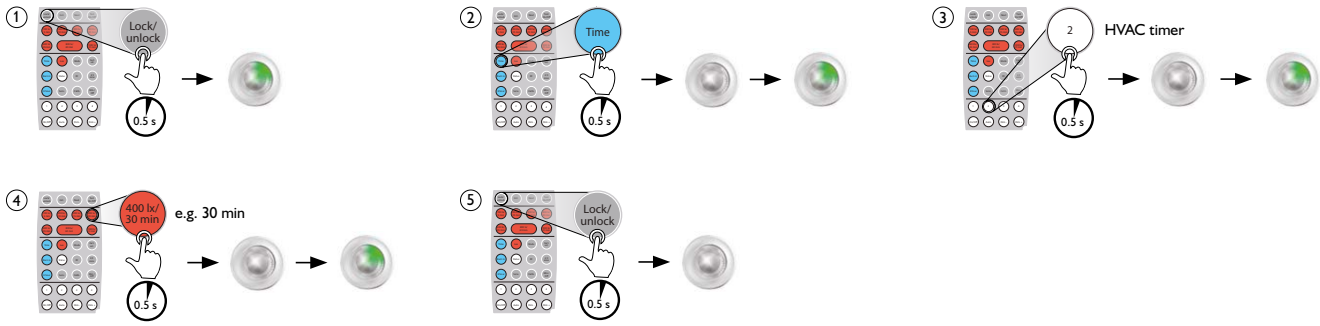
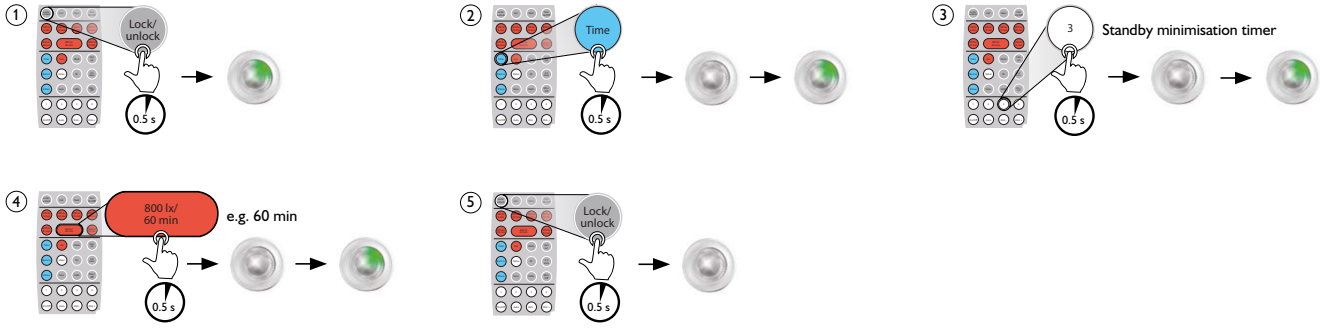
## 5.1 Time 1 - Off delay timer



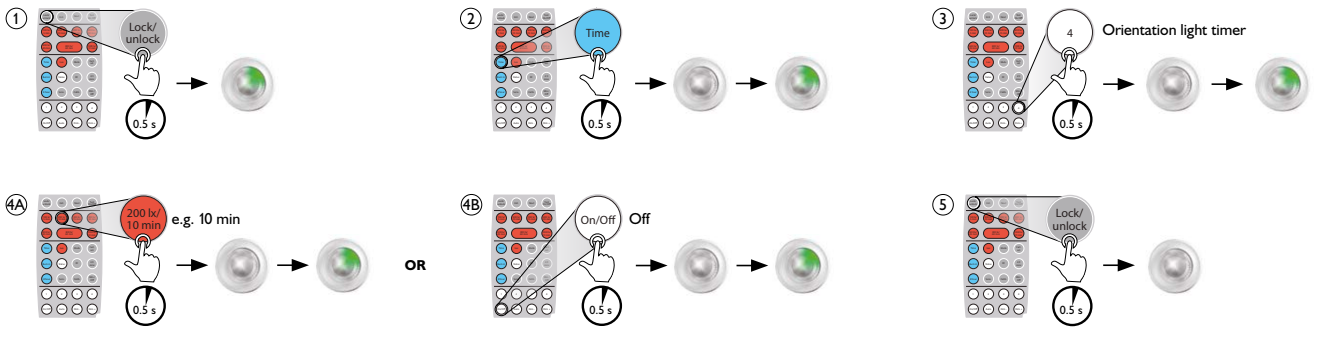

## 5.2 Time 2 - HVAC timer




## 5.3 Time 3 - Standby minimisation timer




## 5.4 Time 4 - Orientation light timer

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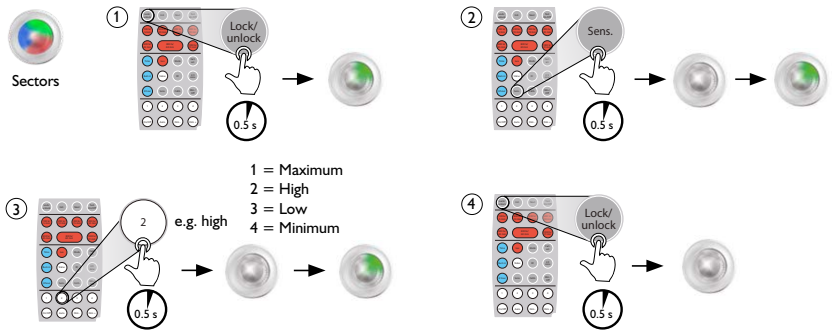
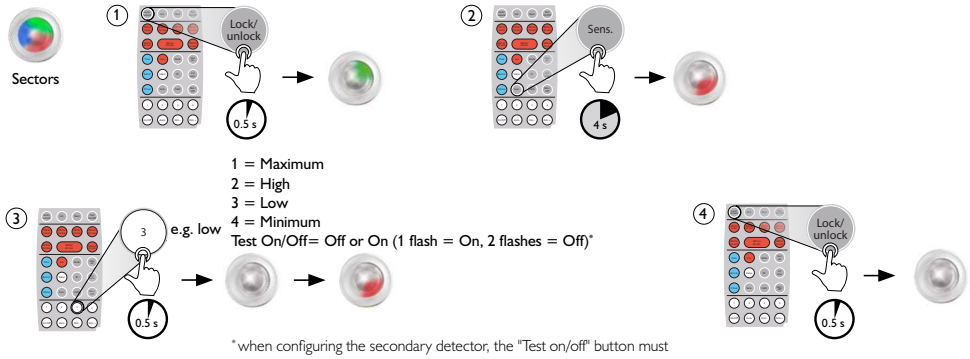
## 6.1 Select sensitivity (all sectors - A, B and C)

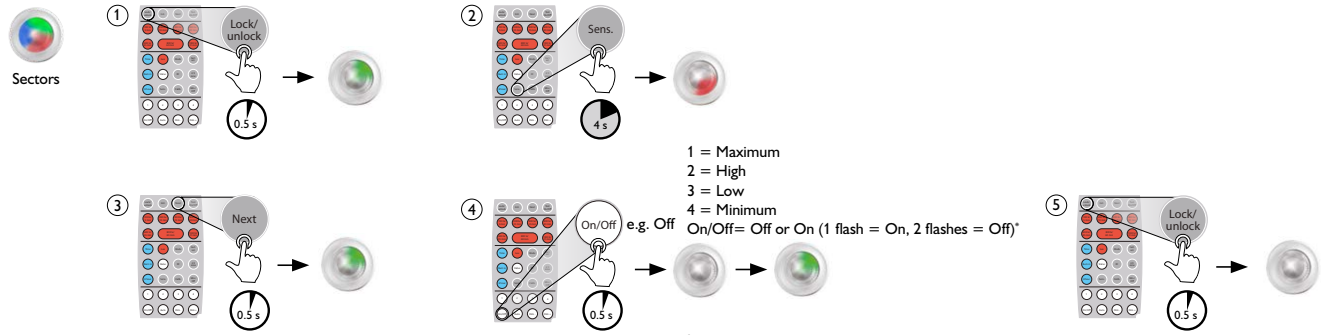



## 6.2 Select sensitivity in sector A (red)



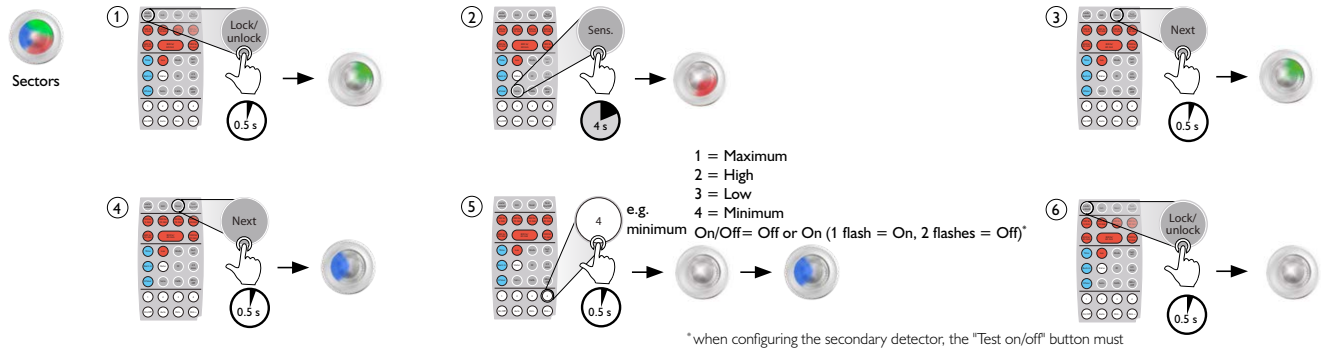

*when configuring the secondary detector, the "Test on/off" button must

## 6.3 Select sensitivity in sector B (green)




*when configuring the secondary detector, the "Test on/off" button must

## 6.4 Select sensitivity in sector C (blue)




*when configuring the secondary detector, the "Test on/off" button must

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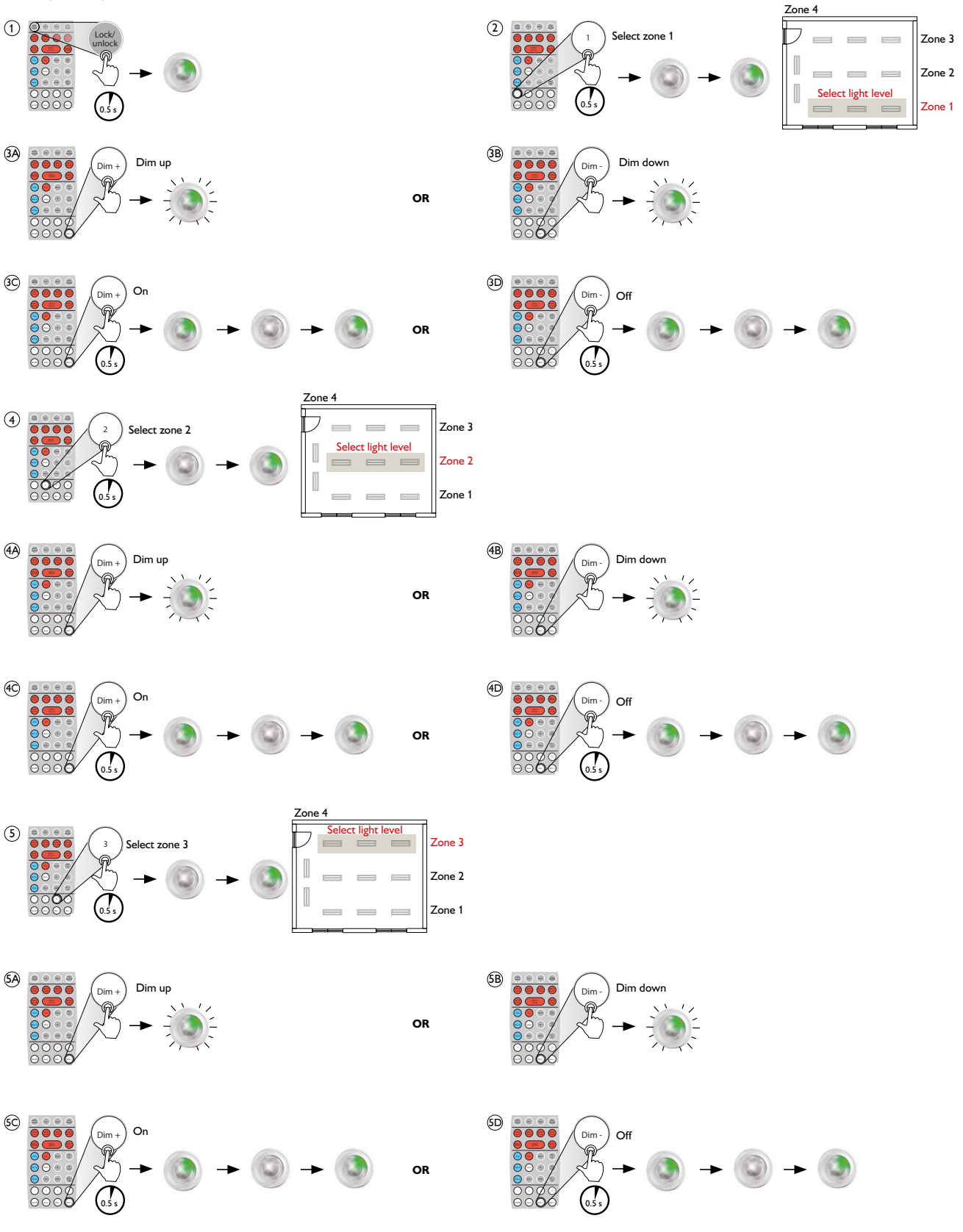
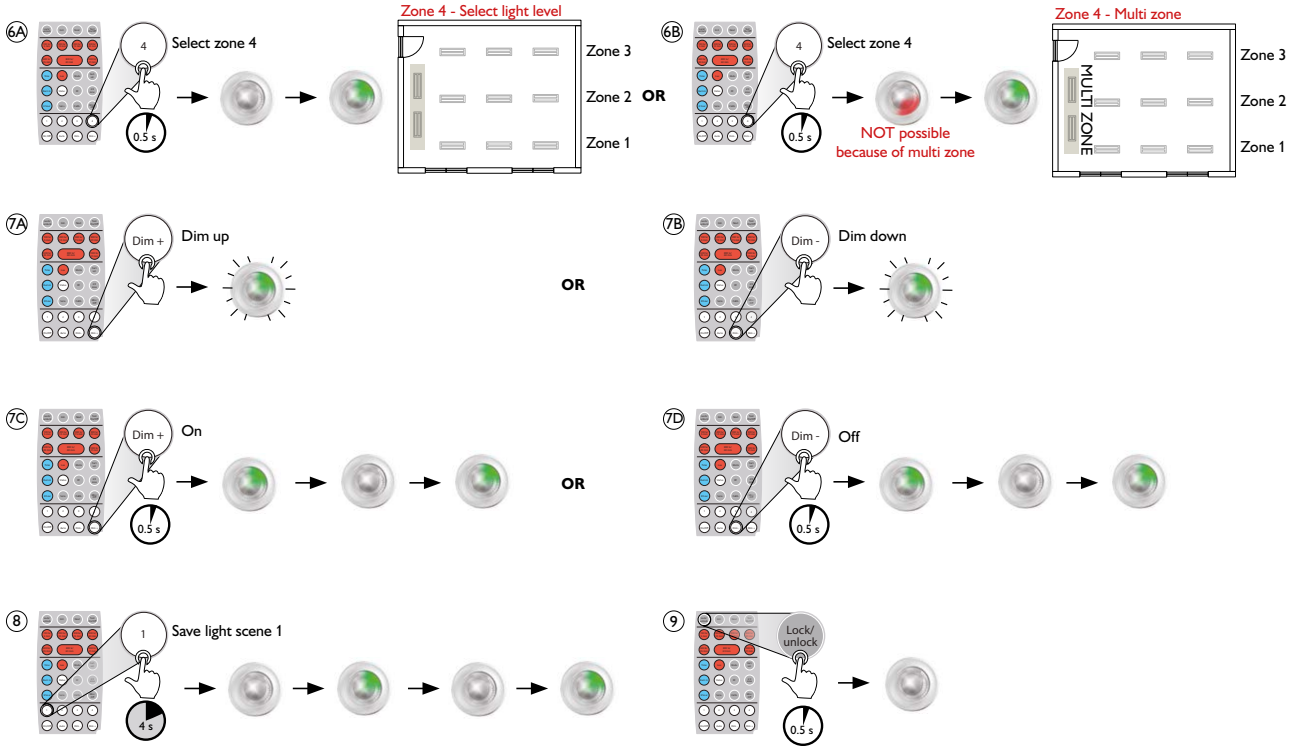
## 7.1 Program light scene 1

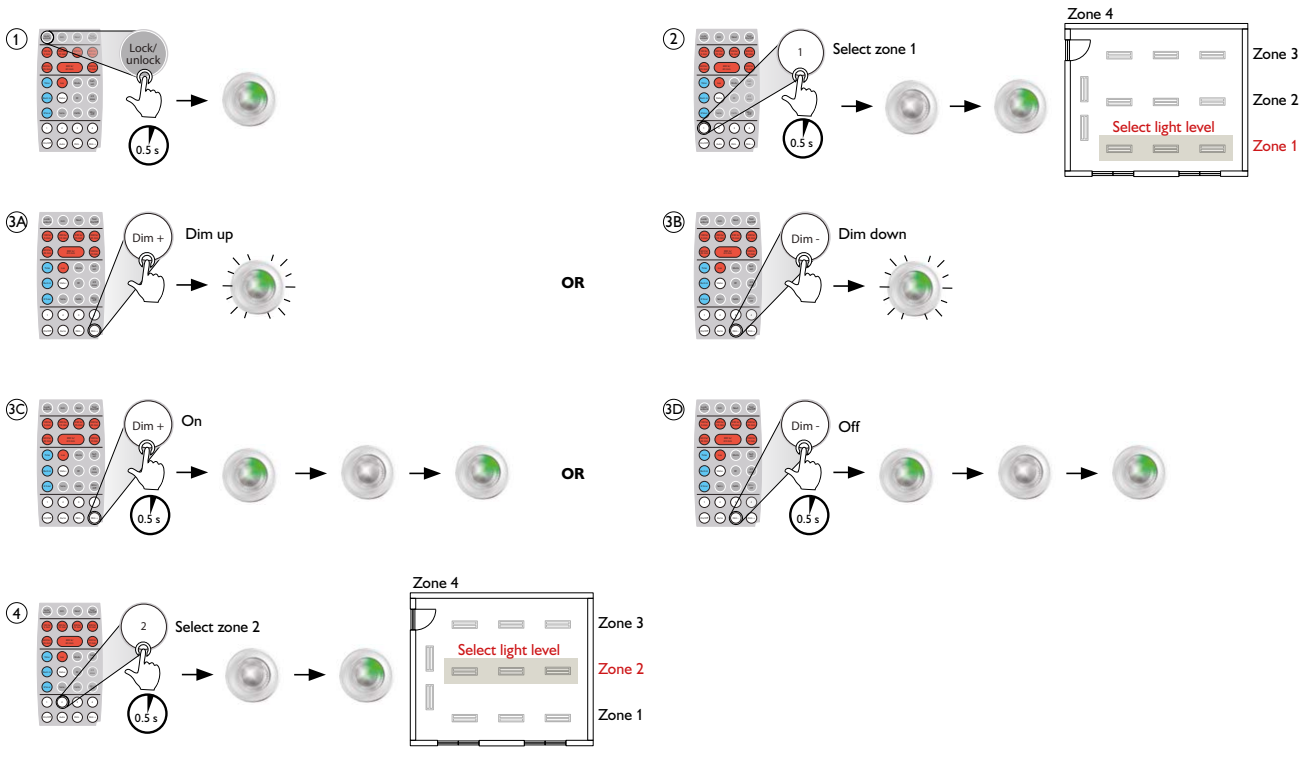


**Return to overview**

## 7.1 Program light scene 1




## 7.2 Program light scene 2

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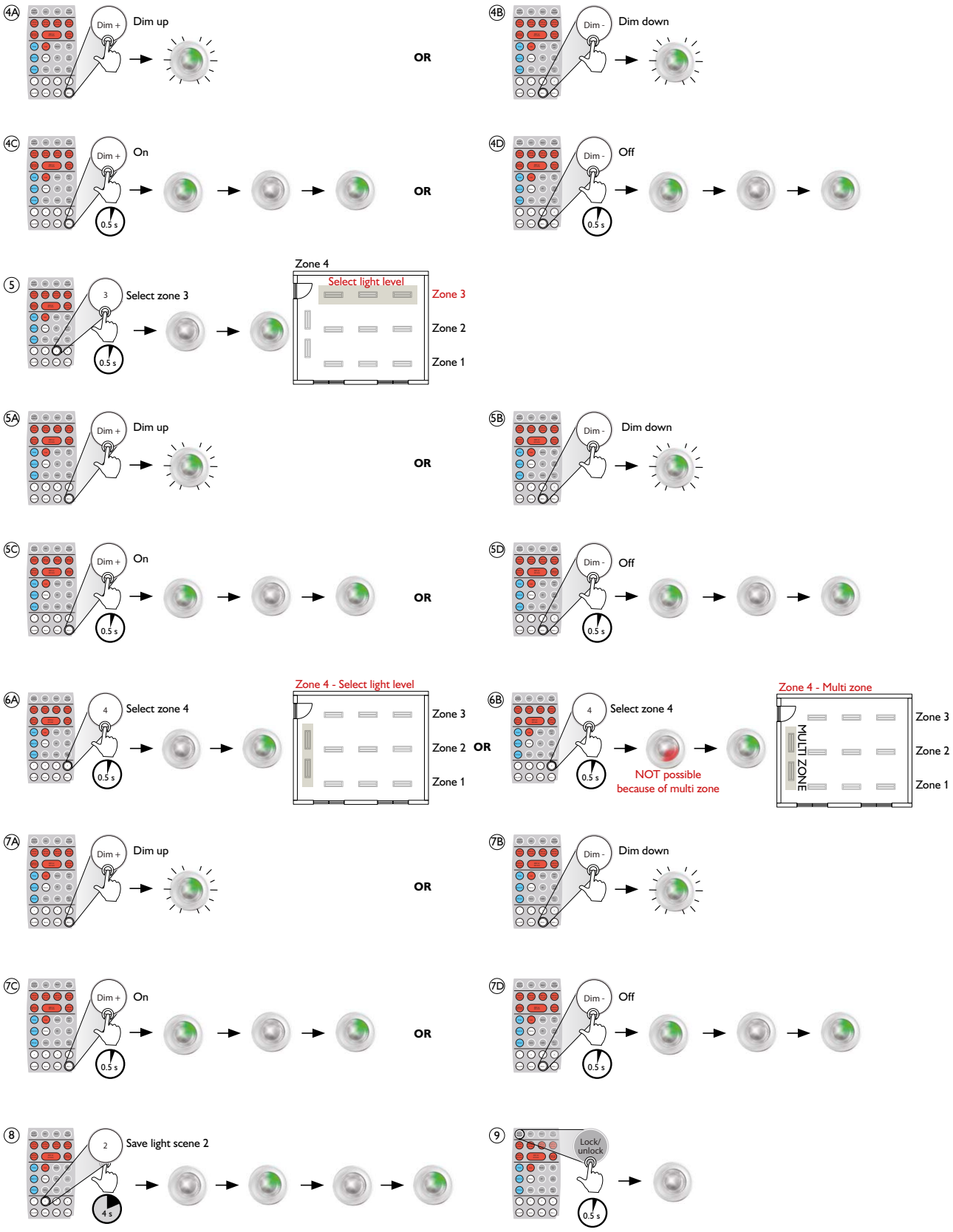
## 7.2 Program light scene 2

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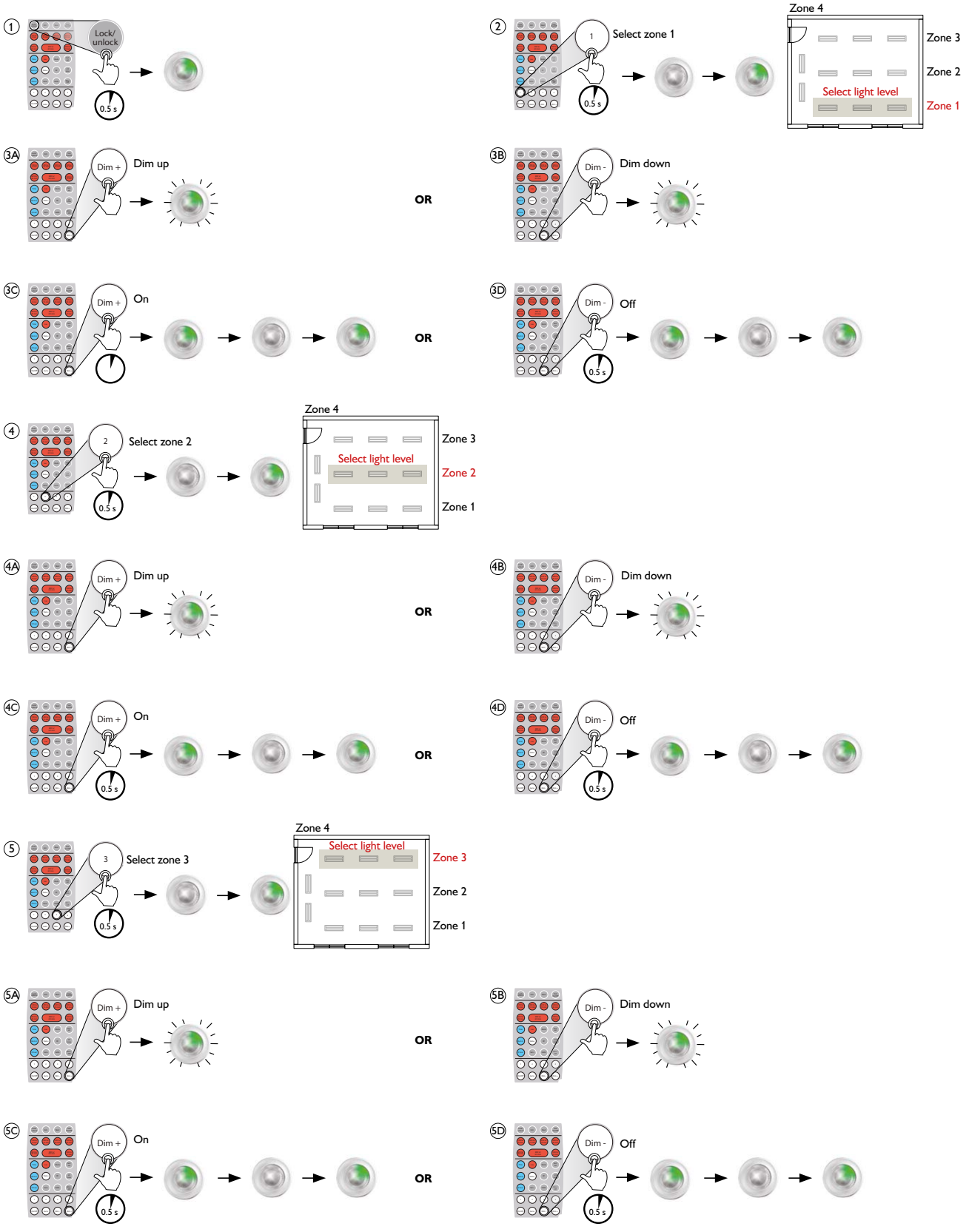
## 7.3 Program light scene 3



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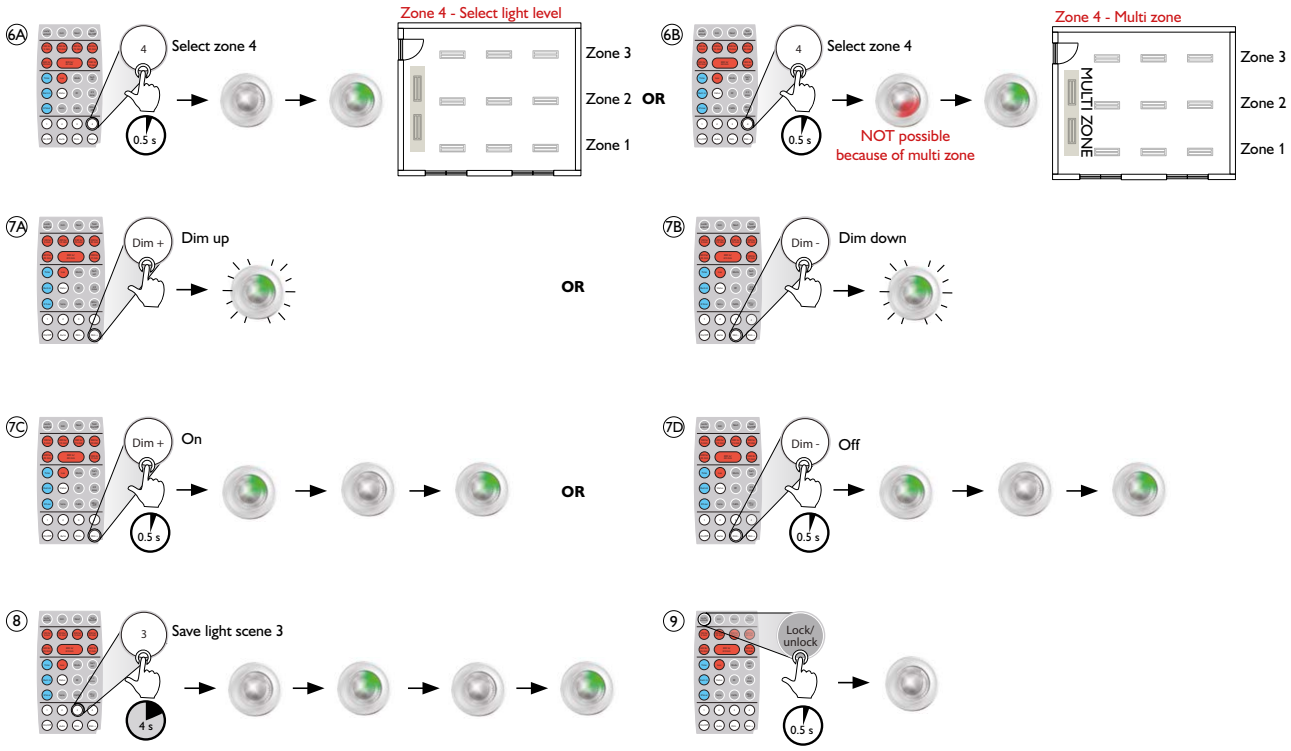
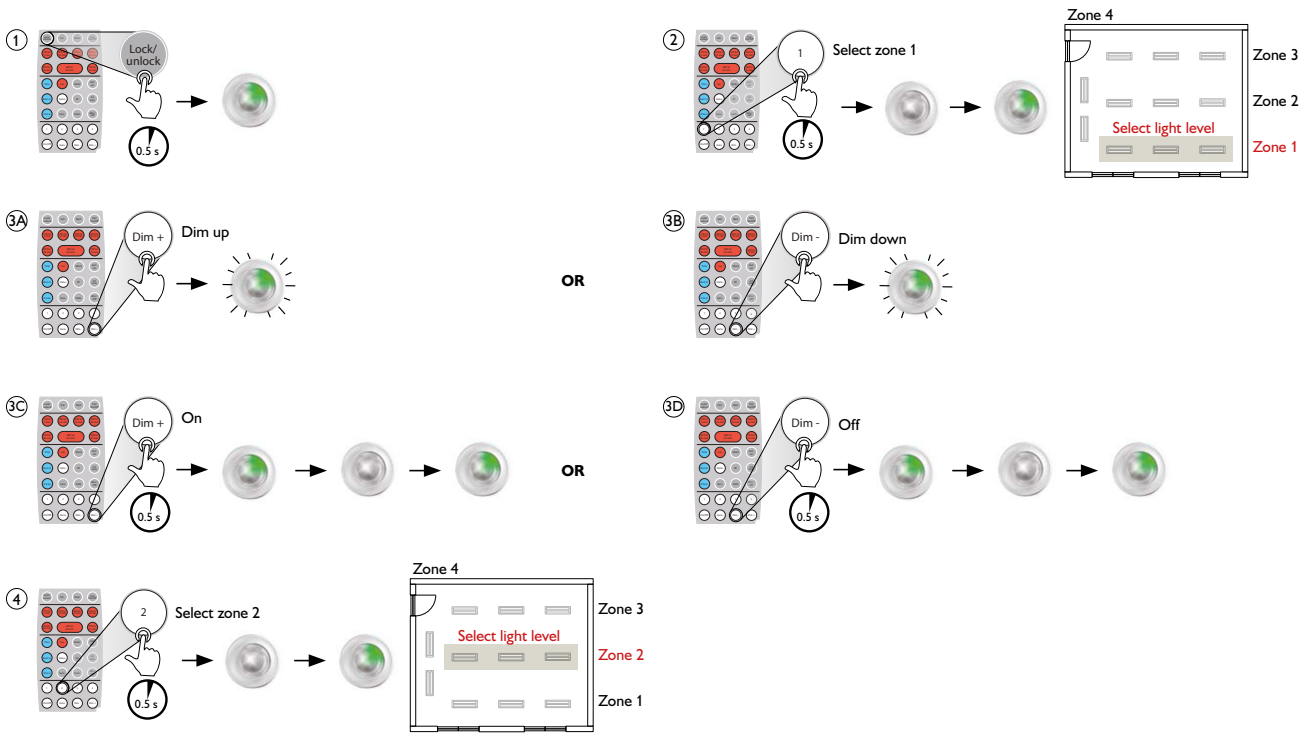
## 7.3 Program light scene 3




## 7.4 Program light scene 4

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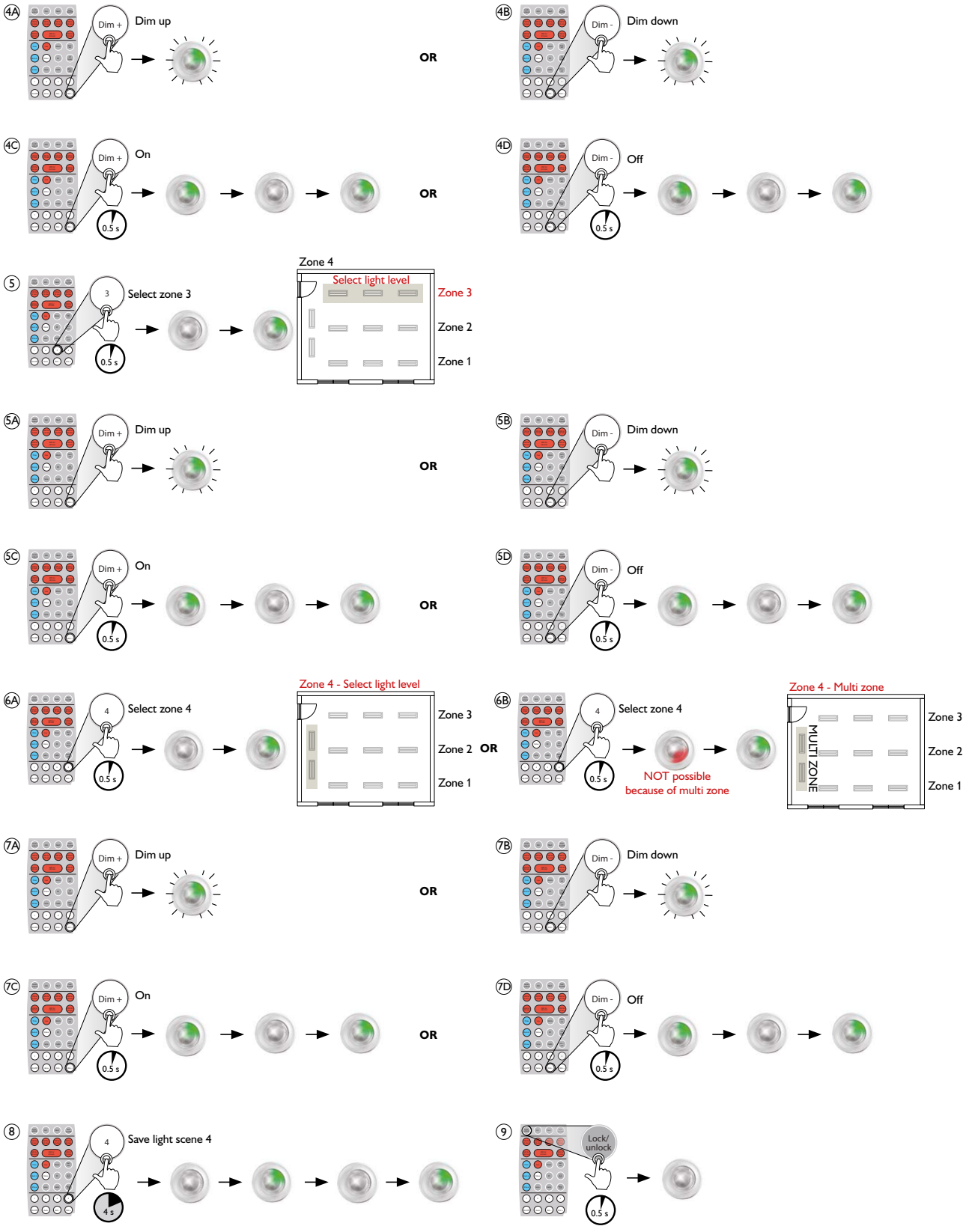
## 7.4 Program light scene 4

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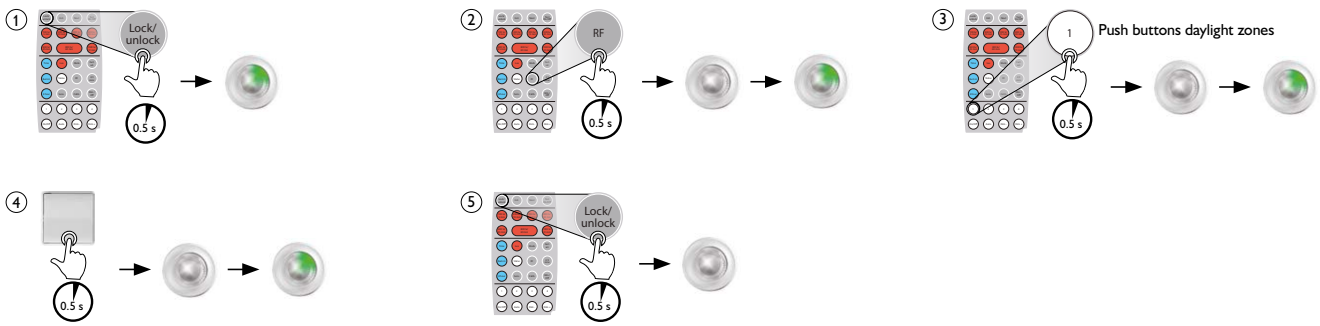
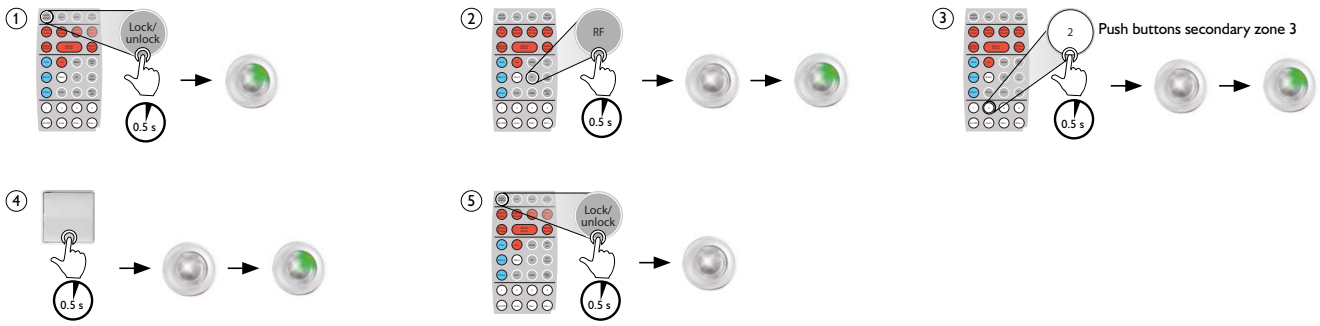
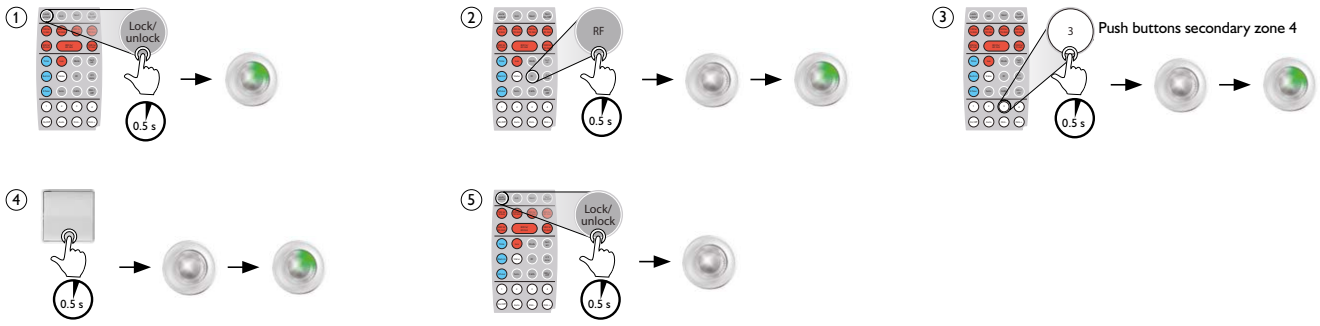
### 8.1 Learn-in wireless push buttons (daylight zones) - only valid for 41-780, 41-781, 41-784 and 41-785



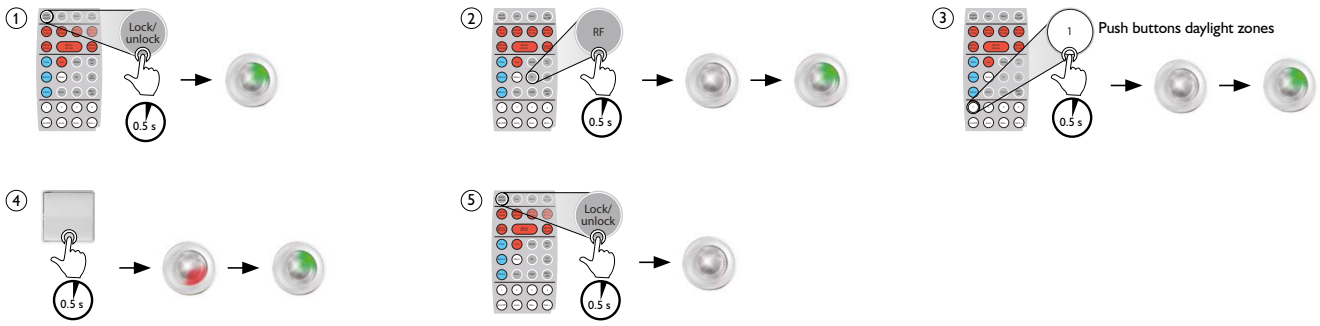

### 8.2 Learn-in wireless push buttons (secondary zone 3) - only valid for 41-780, 41-781, 41-784 and 41-785




### 8.3 Learn-in wireless push buttons (secondary zone 4) - only valid for 41-780, 41-781, 41-784 and 41-785




### 8.4 Delete learned-in wireless push buttons (daylight zones) - only valid for 41-780, 41-781, 41-784 and 41-785

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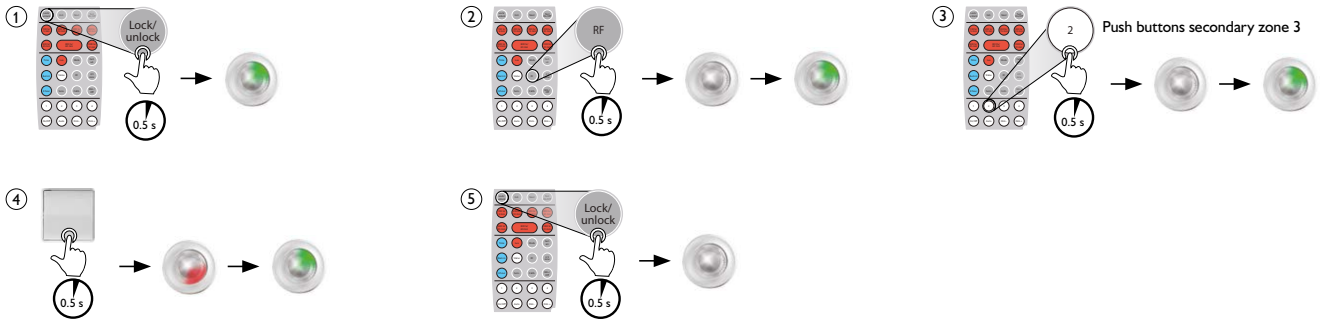
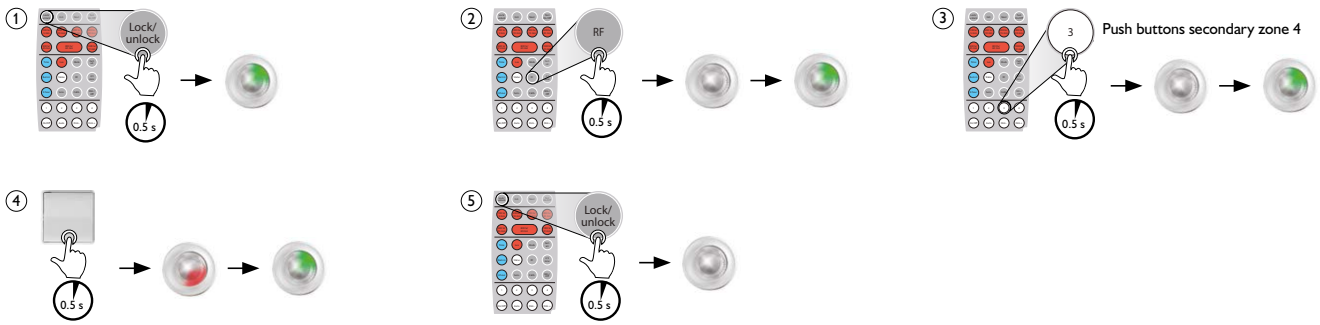
### 8.5 Delete learned-in wireless push buttons (secondary zone 3) - only valid for 41-780, 41-781, 41-784 and 41-785




### 8.6 Delete learned-in wireless push buttons (secondary zone 4) - only valid for 41-780, 41-781, 41-784 and 41-785

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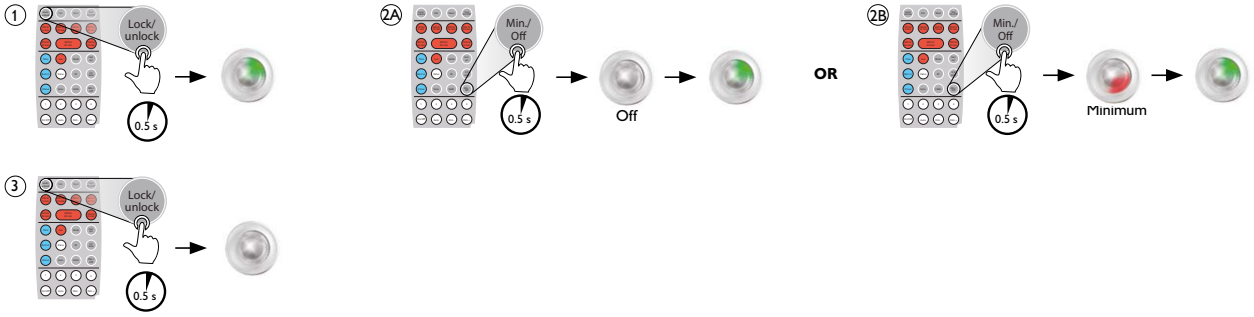
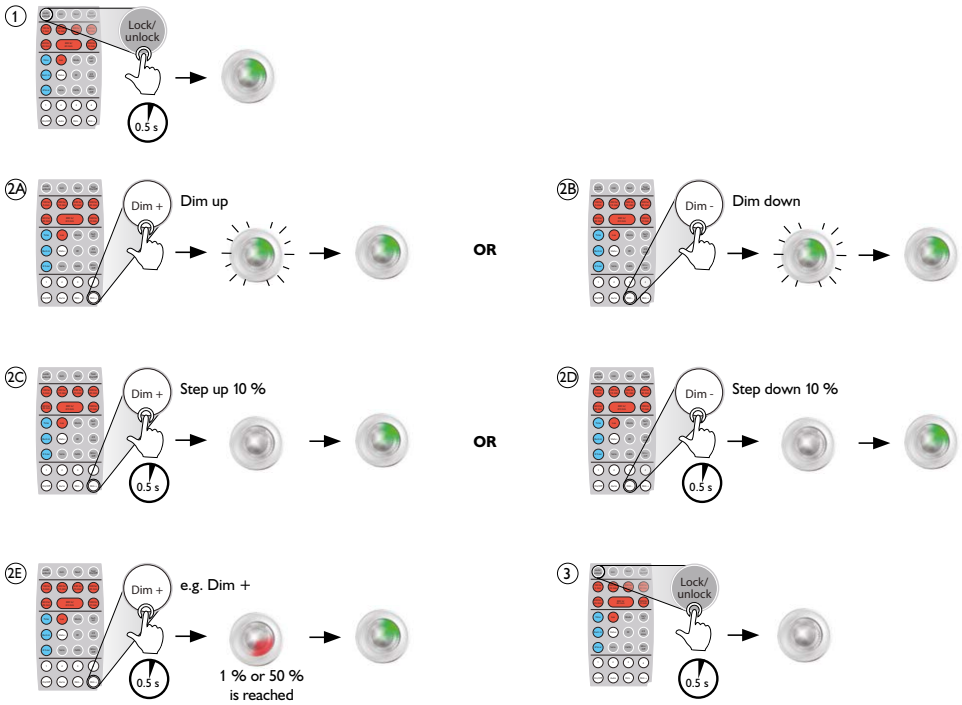
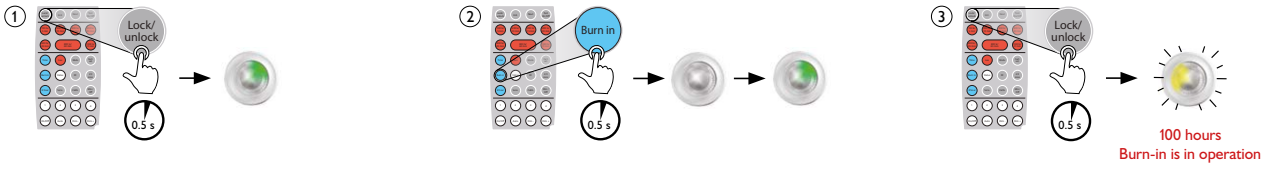
## 9.1 Select Minimum or Off, daylight zones




## 9.2 Adjust minimum level orientation light, luminaires




## 9.3 Enable burn-in

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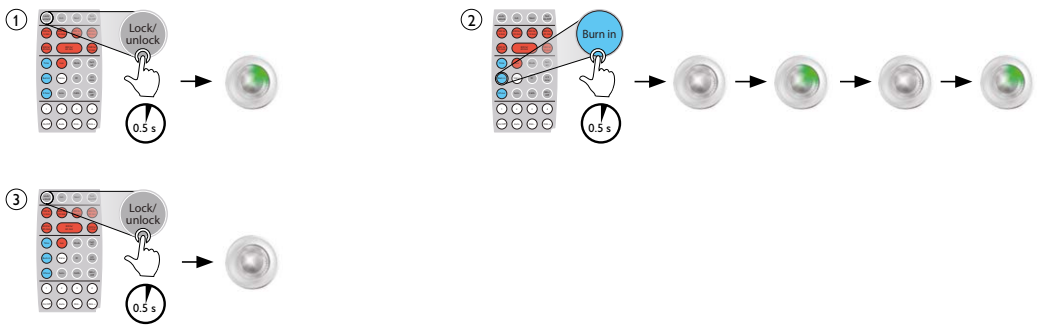
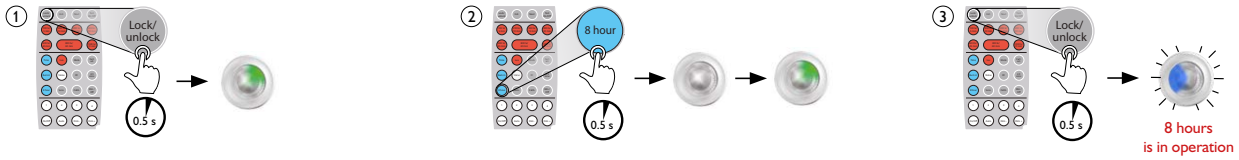
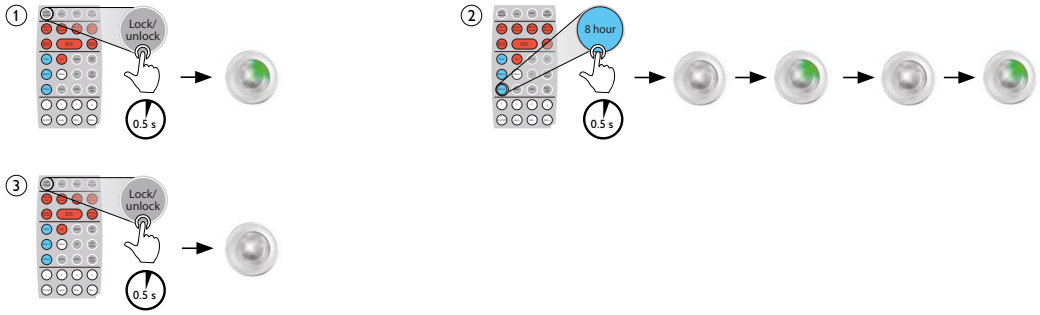
### 9.4 Disable burn-in



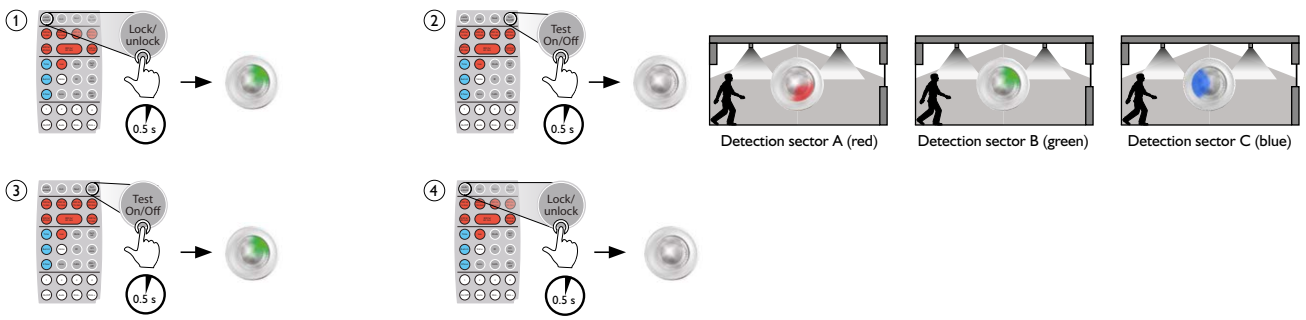

### 9.5 Enable constant HVAC output (8 hours)




### 9.6 Disable constant HVAC output




### 9.7 Walk test

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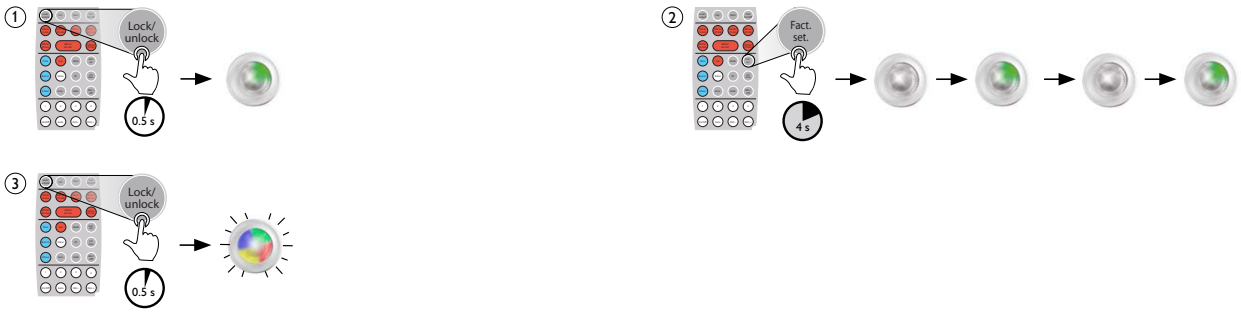
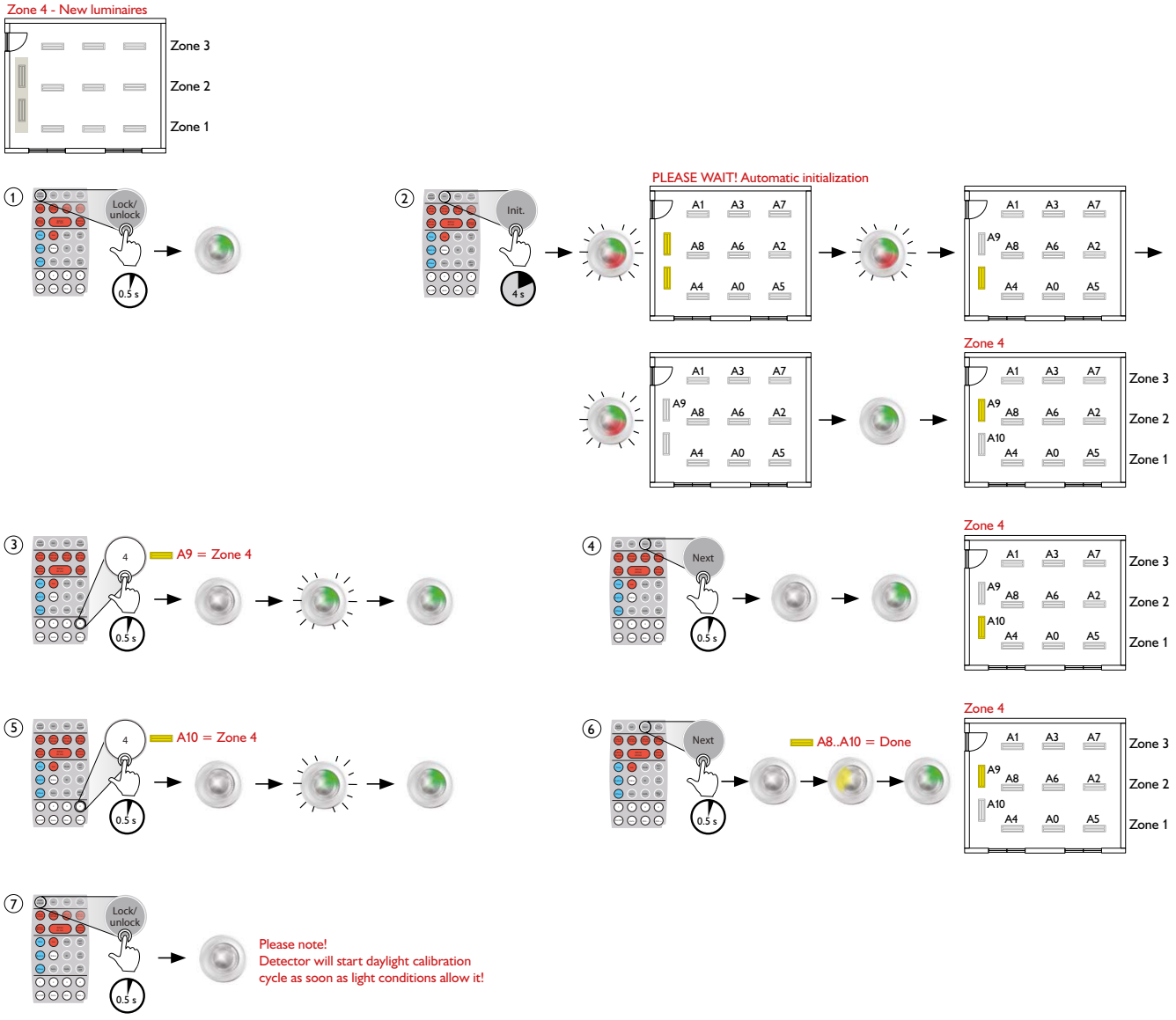
## 9.8 Reset to factory settings




## 9.9 Add luminaires



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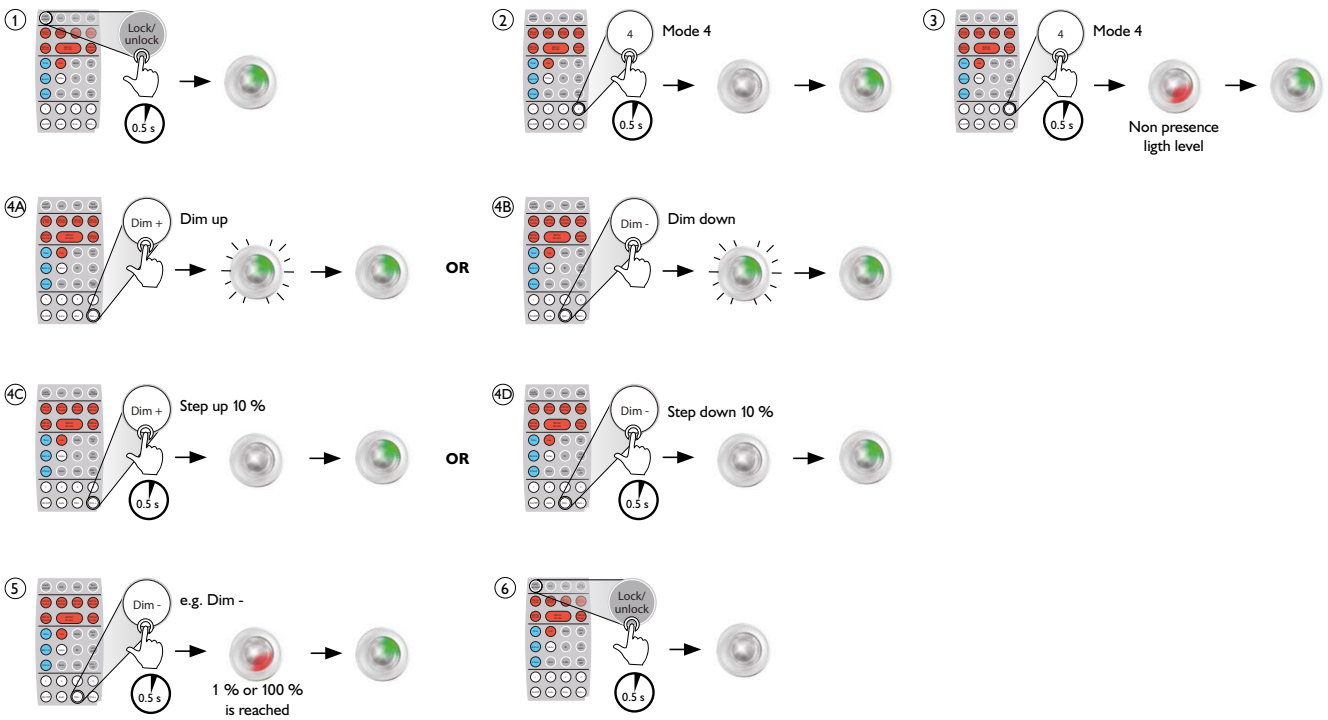
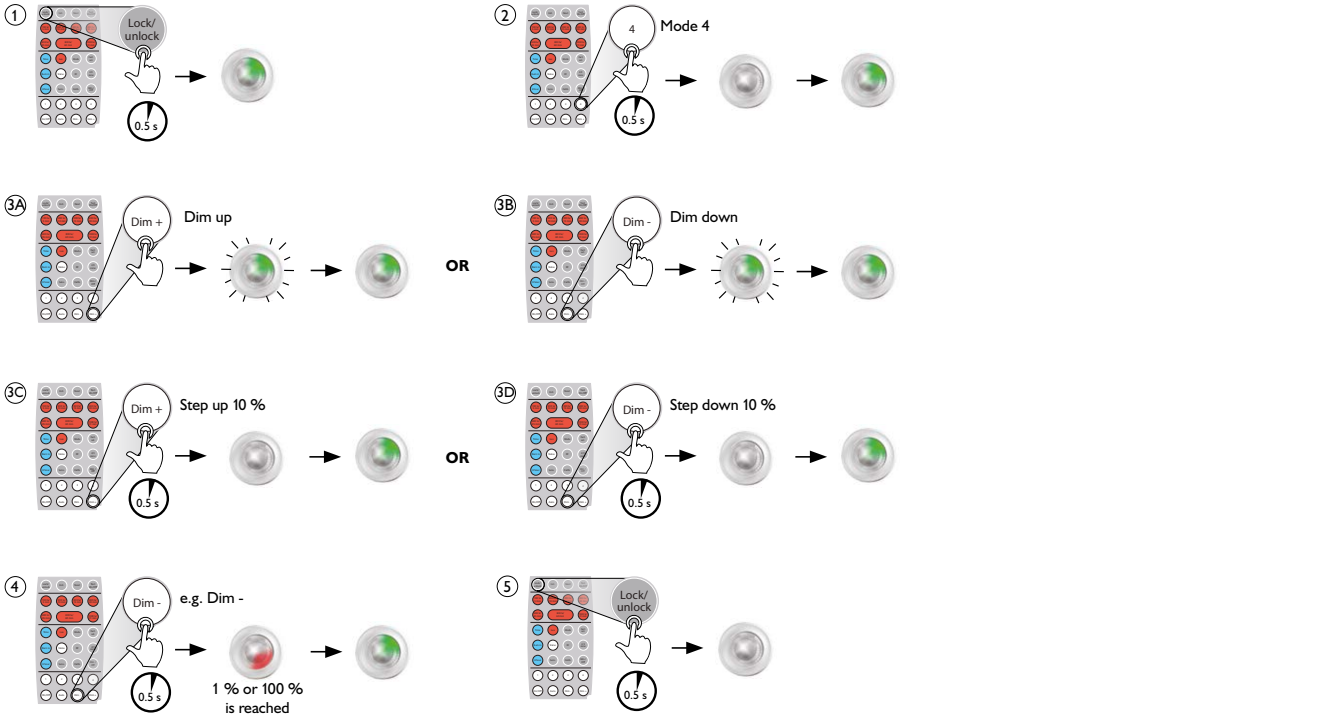
## 9.10 Non presence light level (Mode 4)




## 9.11 Presence light level (Mode 4)

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## 9.12 External DALI Control Devices

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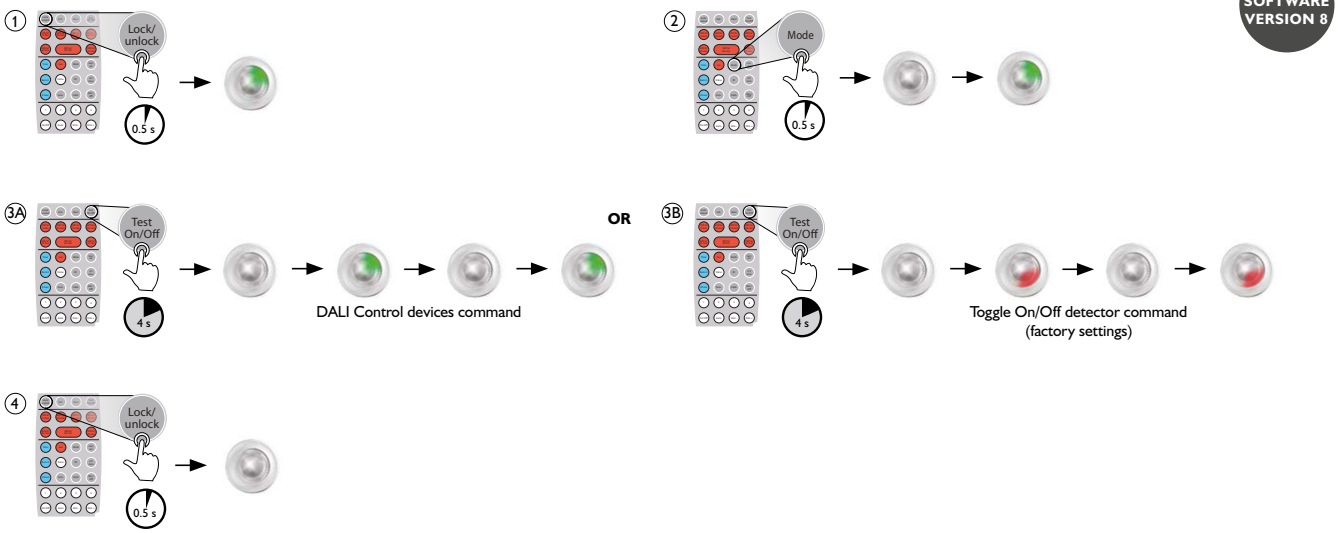

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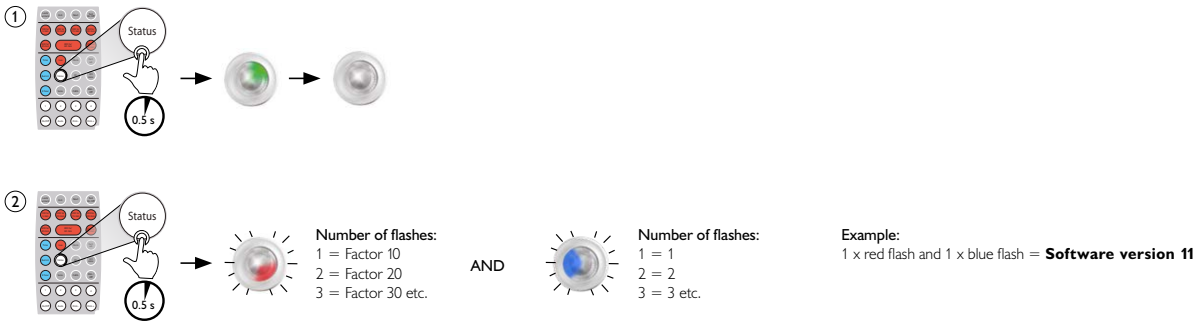
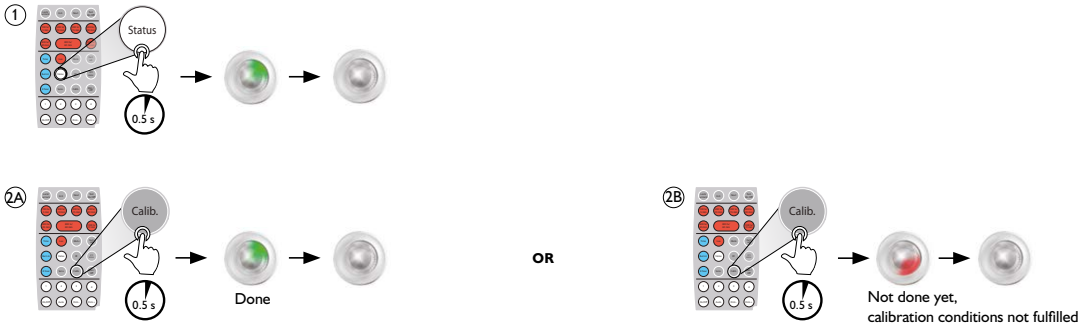
## 10.1 Status - software version

FROM SOFTWARE VERSION 6

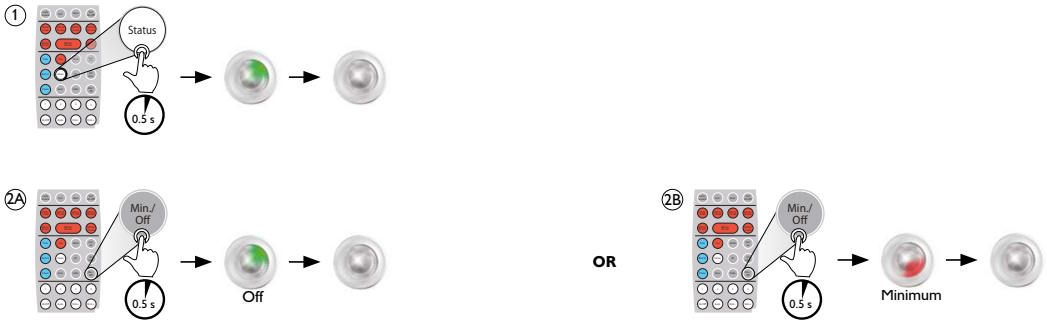



## 10.2 Status - daylight calibration

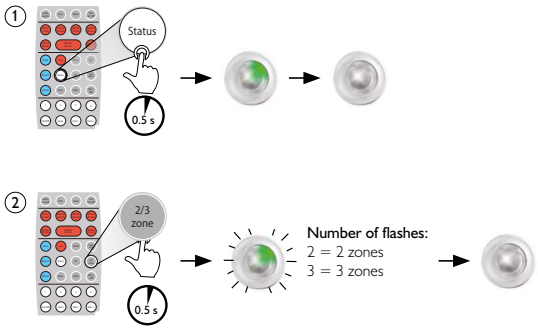
FROM SOFTWARE VERSION 6




## 10.3 Status - Minimum or Off, daylight zones




## 10.4 Status - 2/3 daylight zones

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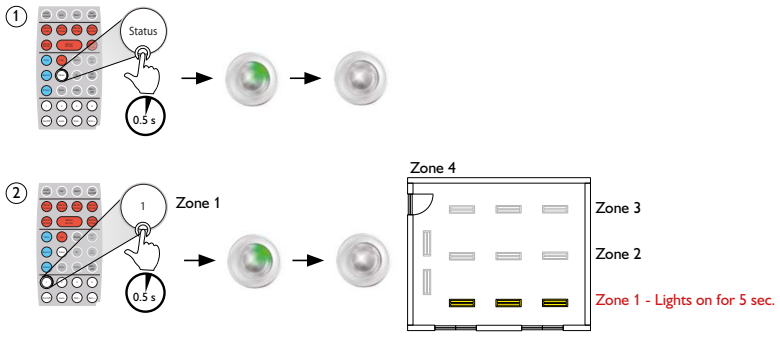
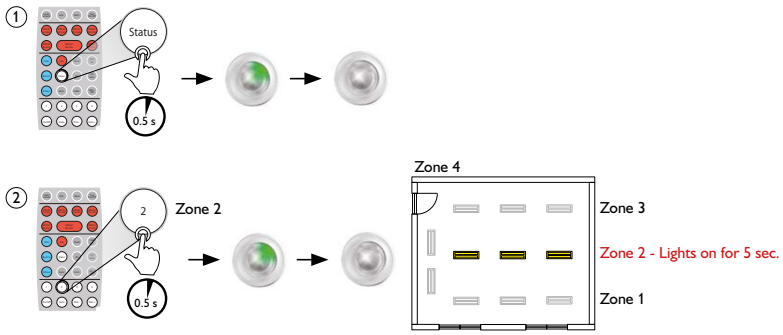
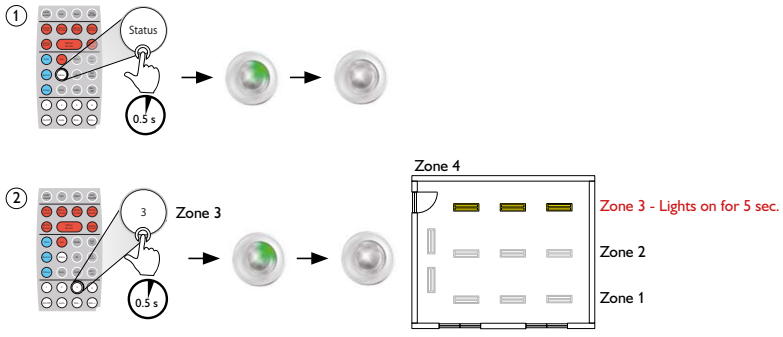
### 10.5 Status - Zone 1



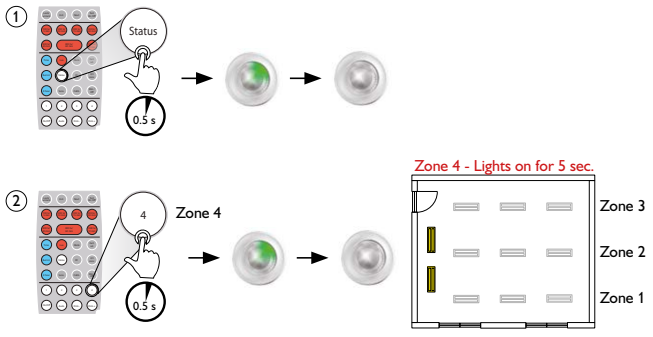

### 10.6 Status - Zone 2




### 10.7 Status - Zone 3




### 10.8 Status - Zone 4

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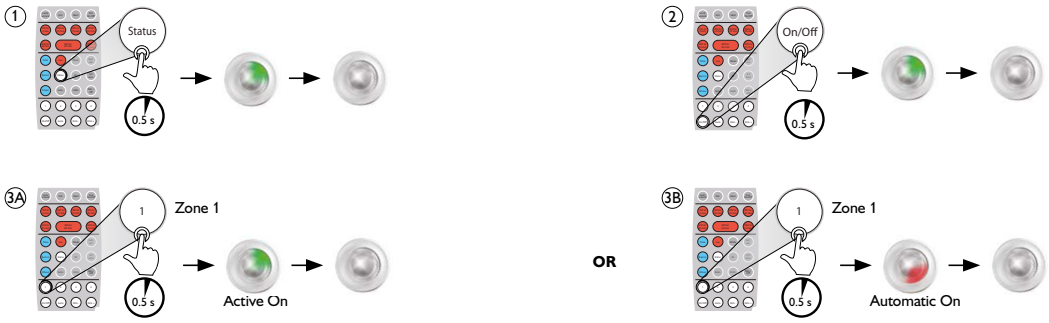
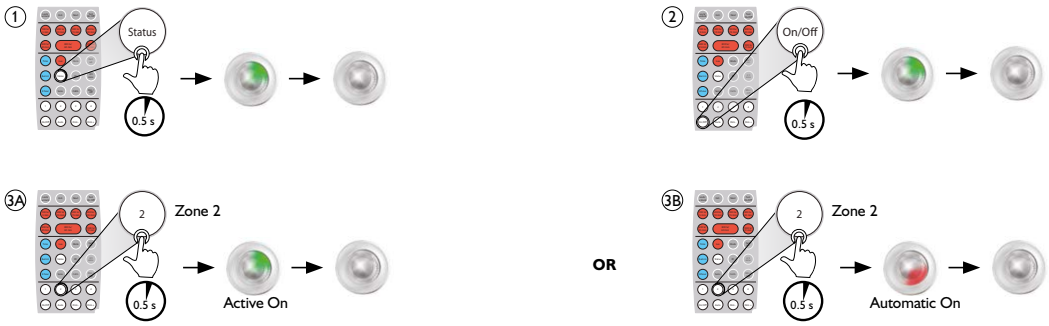
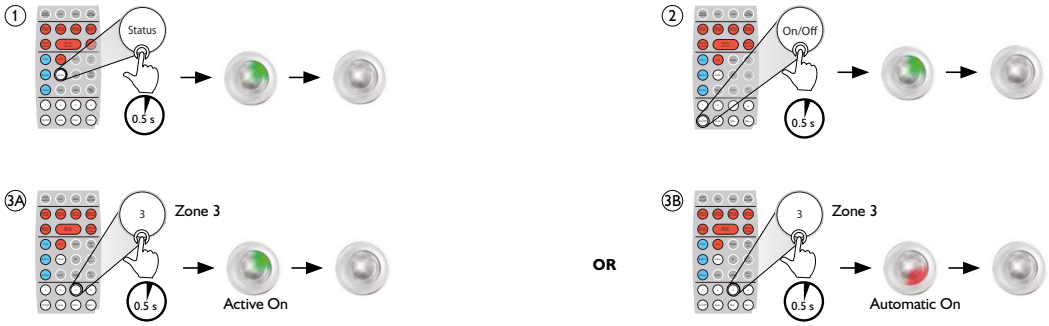
### 10.9 Status - Automatic On or Active On (Zone 1)



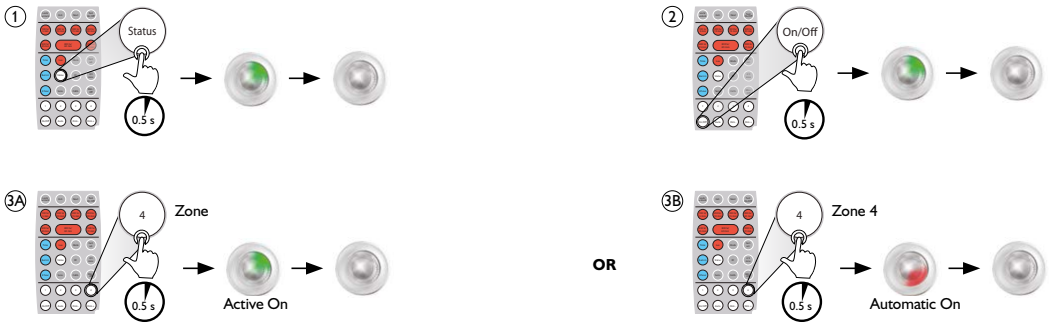

### 10.10 Status - Automatic On or Active On (Zone 2)




### 10.11 Status - Automatic On or Active On (Zone 3)




### 10.12 Status - Automatic On or Active On (Zone 4)

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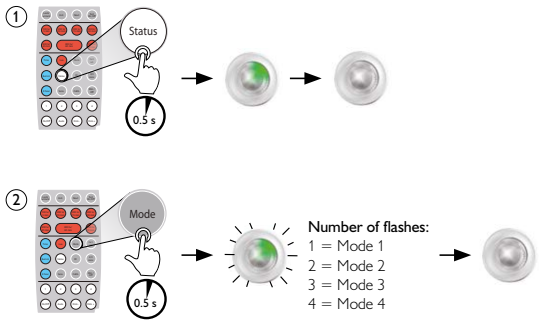
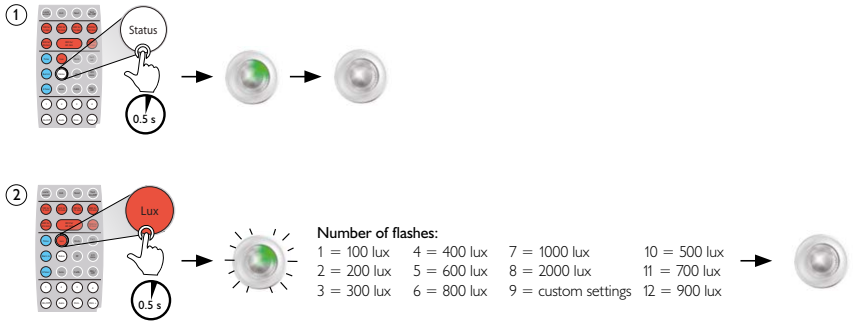
### 10.13 Status - Mode




### 10.14 Status - Lux level




### 10.15 Status - User dynamic lux setting

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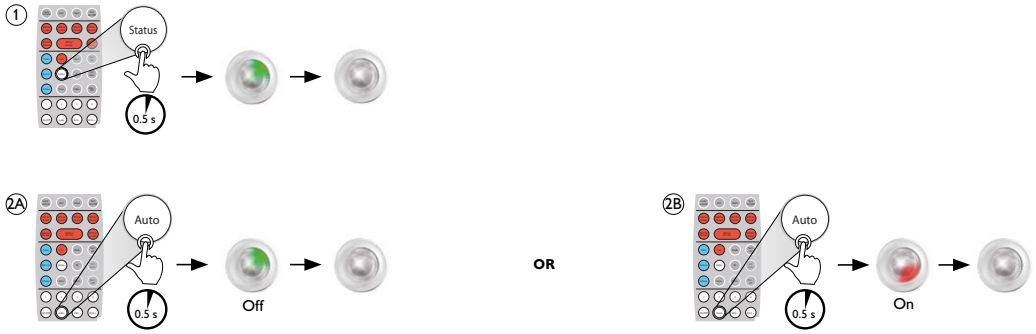


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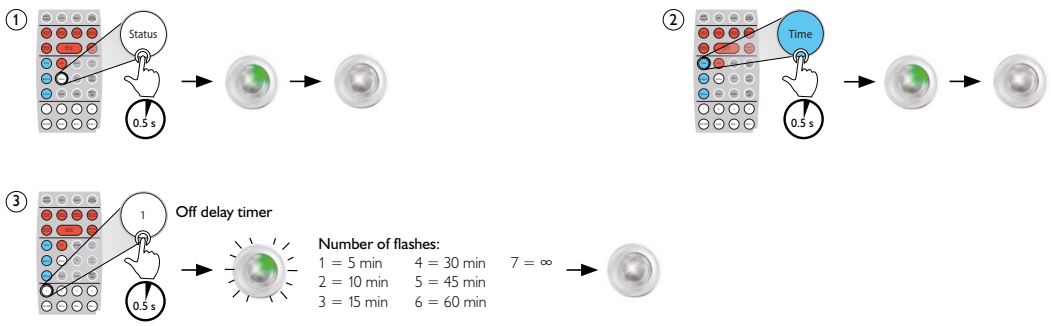
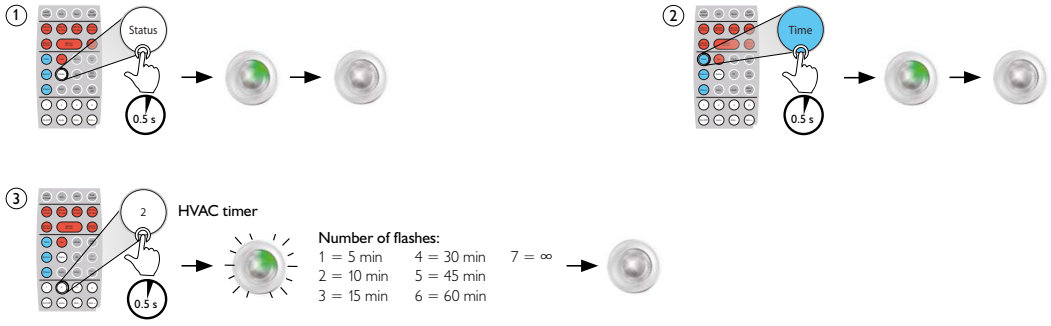
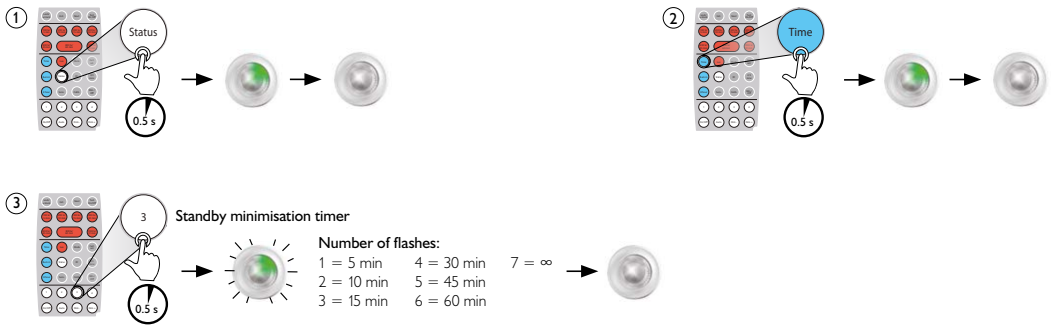
## 11.1 Status time 1 - Off delay timer



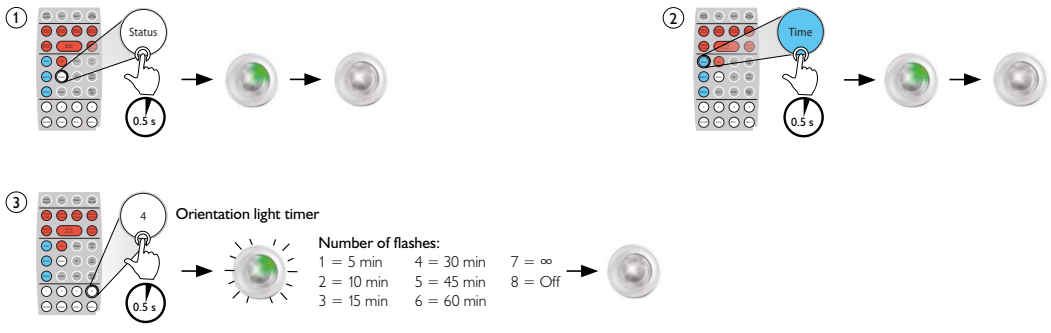

## 11.2 Status time 2 - HVAC timer




## 11.3 Status time 3 - standby minimisation timer




## 11.4 Status time 4 - Orientation light timer

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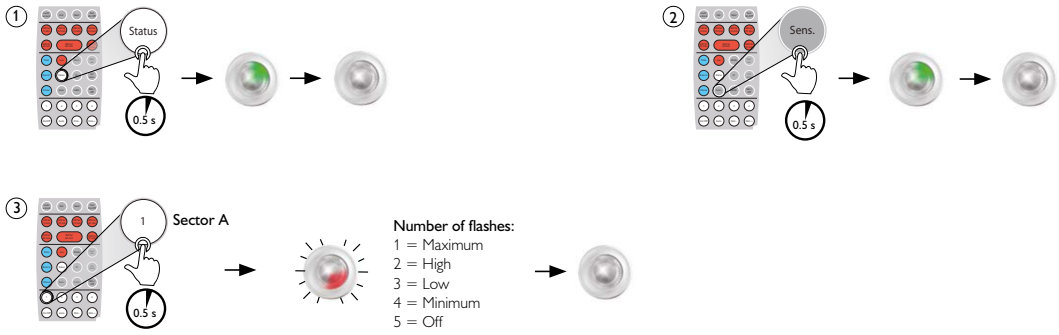
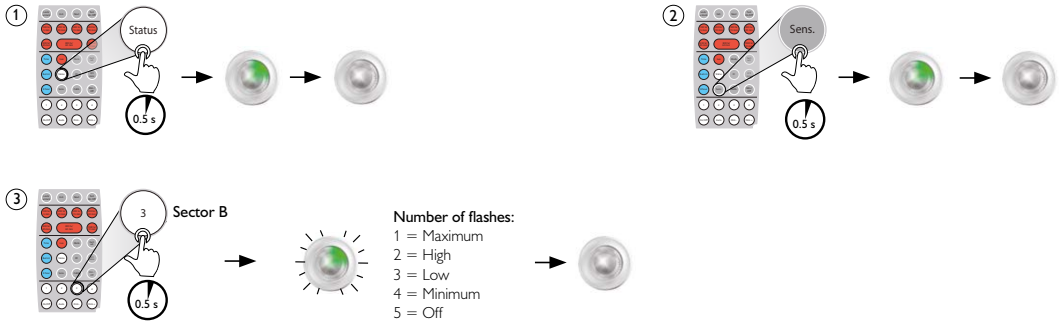
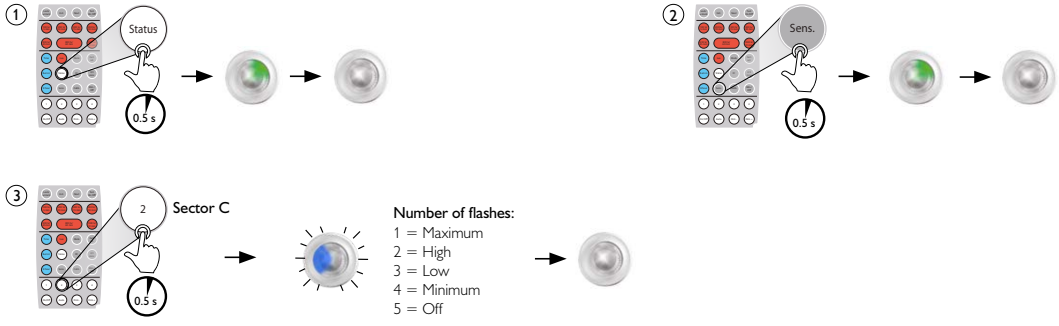
### 11.5 Status - Sensitivity in sector A (red)




### 11.6 Status - Sensitivity in sector B (green)




### 11.7 Status - Sensitivity in sector C (blue)

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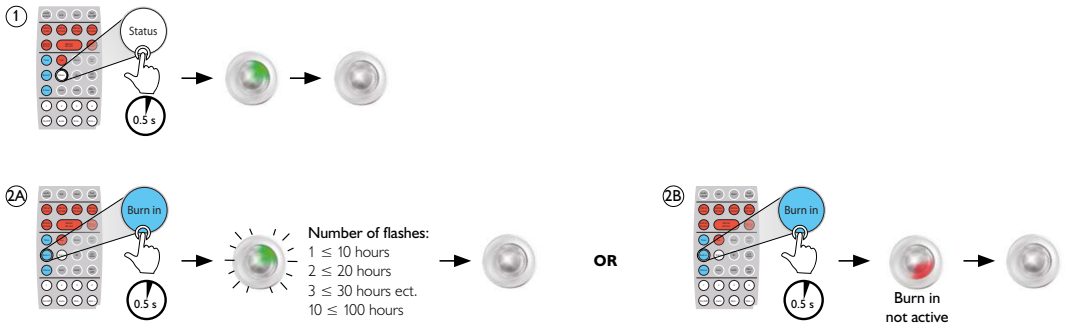
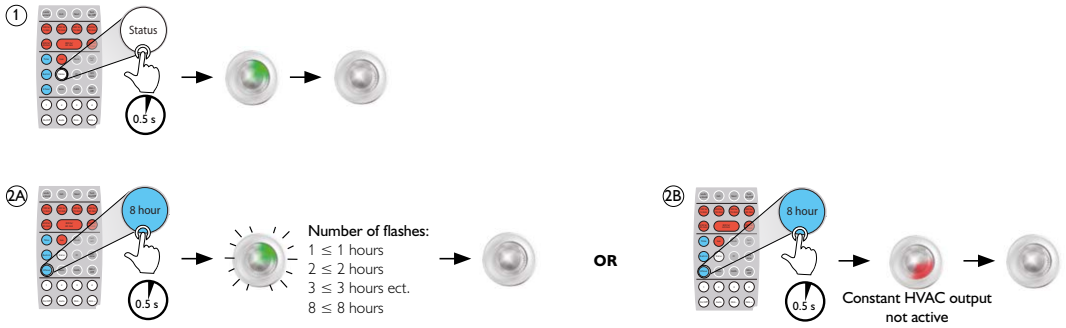
### 12.1 Status - Burn in




### 12.2 Status - Constant HVAC output (8 hours)

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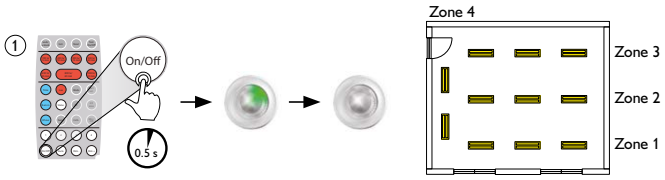
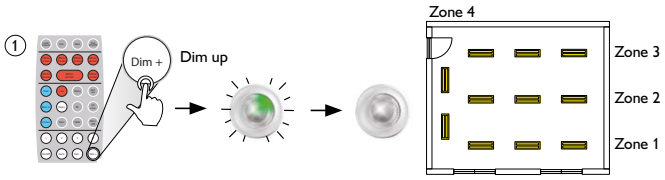
**Return to overview**

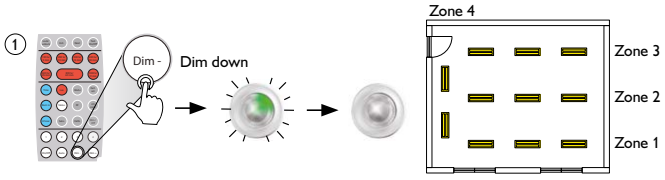
### 13.1 Operation - On/Off (All zones)



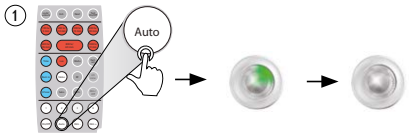

### 13.2 Operation Dim up (All zones)




### 13.3 Operation Dim down (All zones)




### 13.4 Operation - Daylight zones to daylight control

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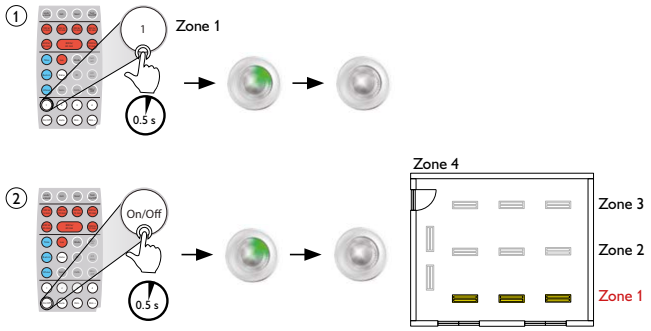
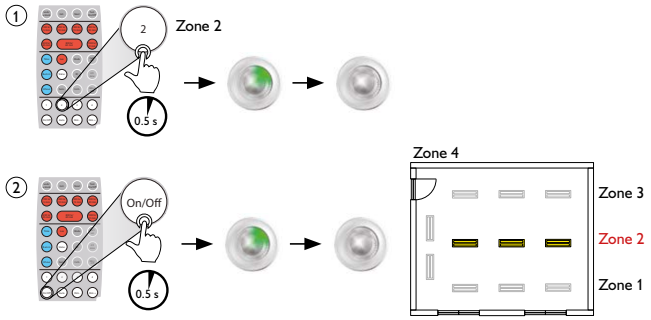
**Return to overview**

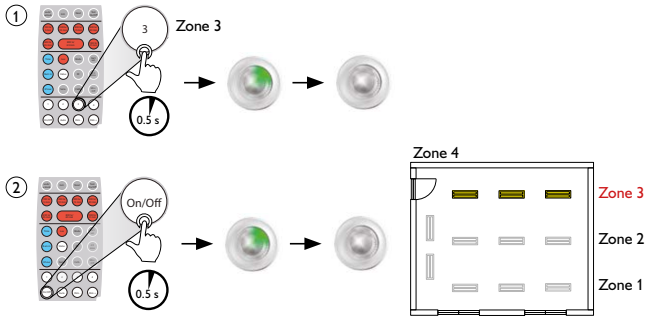
### 13.5 Operation - Luminaires On/Off (Zone 1)



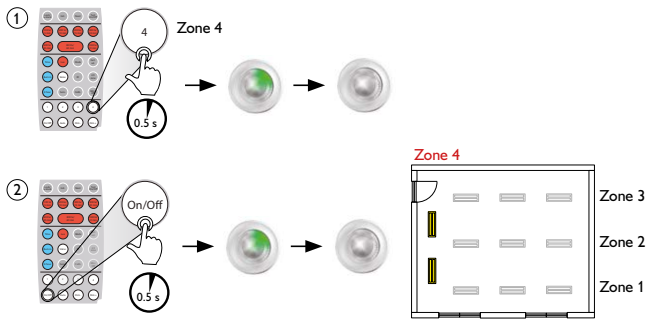

### 13.6 Operation - Luminaires On/Off (Zone 2)




### 13.7 Operation - Luminaires On/Off (Zone 3)




### 13.8 Operation - Luminaires On/Off (Zone 4)

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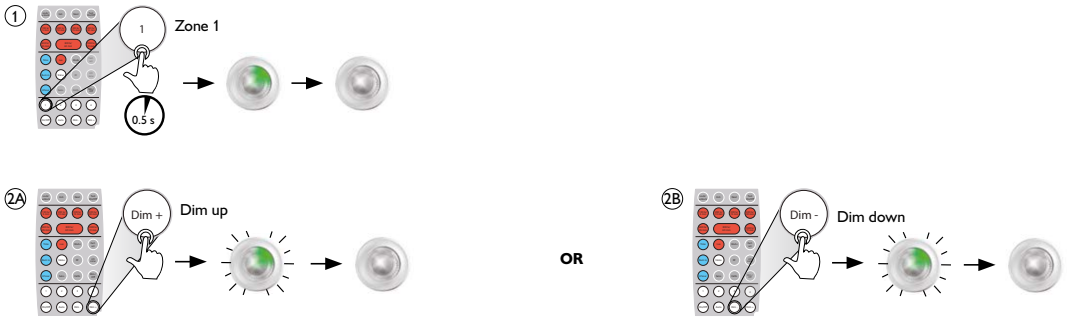
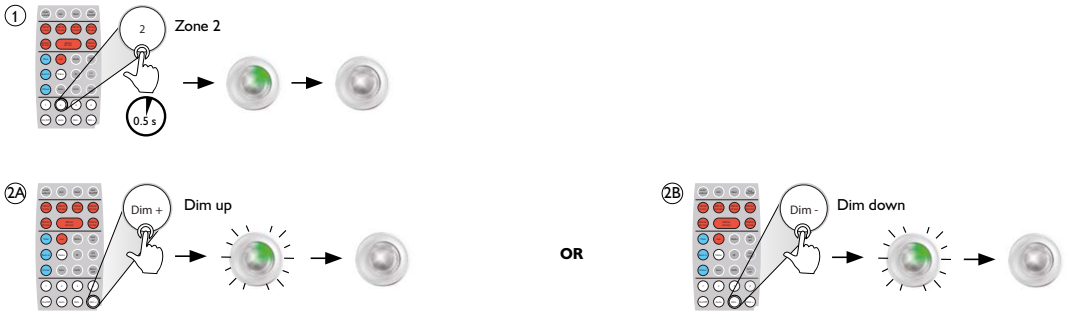
**Return to overview**

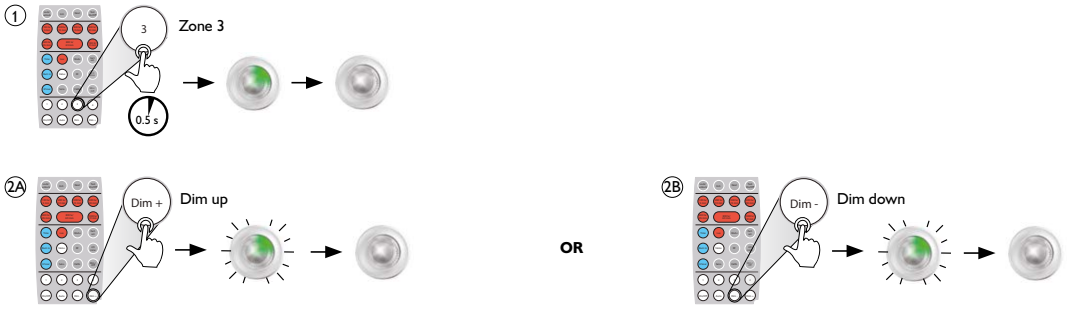
### 13.9 Operation - Dim up/down luminaires (Zone 1)



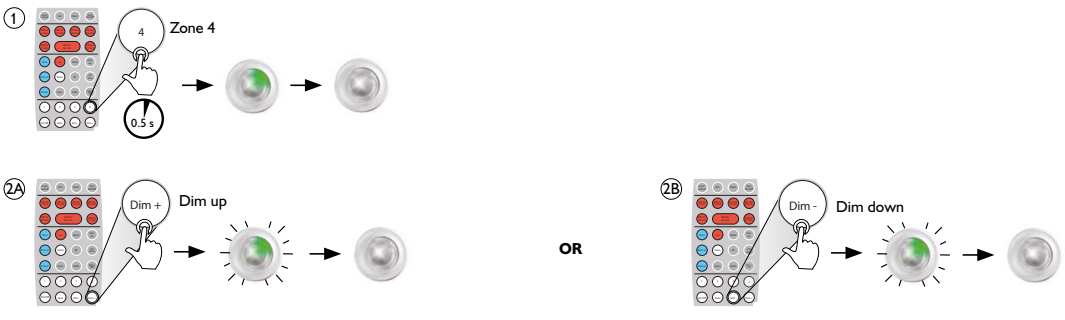

### 13.10 Operation - Dim up/down luminaires (Zone 2)




### 13.11 Operation - Dim up/down luminaires (Zone 3)




### 13.12 Operation - Dim up/down luminaires (Zone 4)

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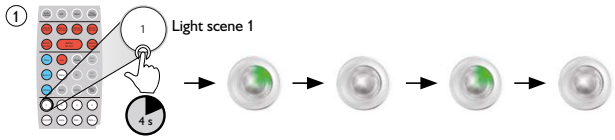
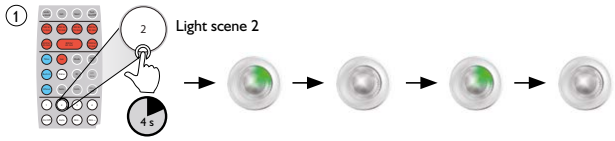
**Return to overview**

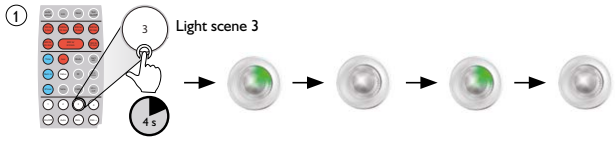
### 13.13 Operation - Light scene 1



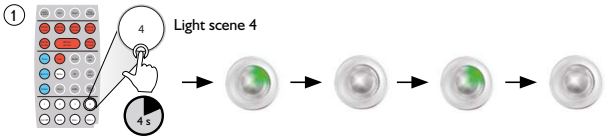

### 13.14 Operation - Light scene 2




### 13.15 Operation - Light scene 3




### 13.16 Operation - Light scene 4

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