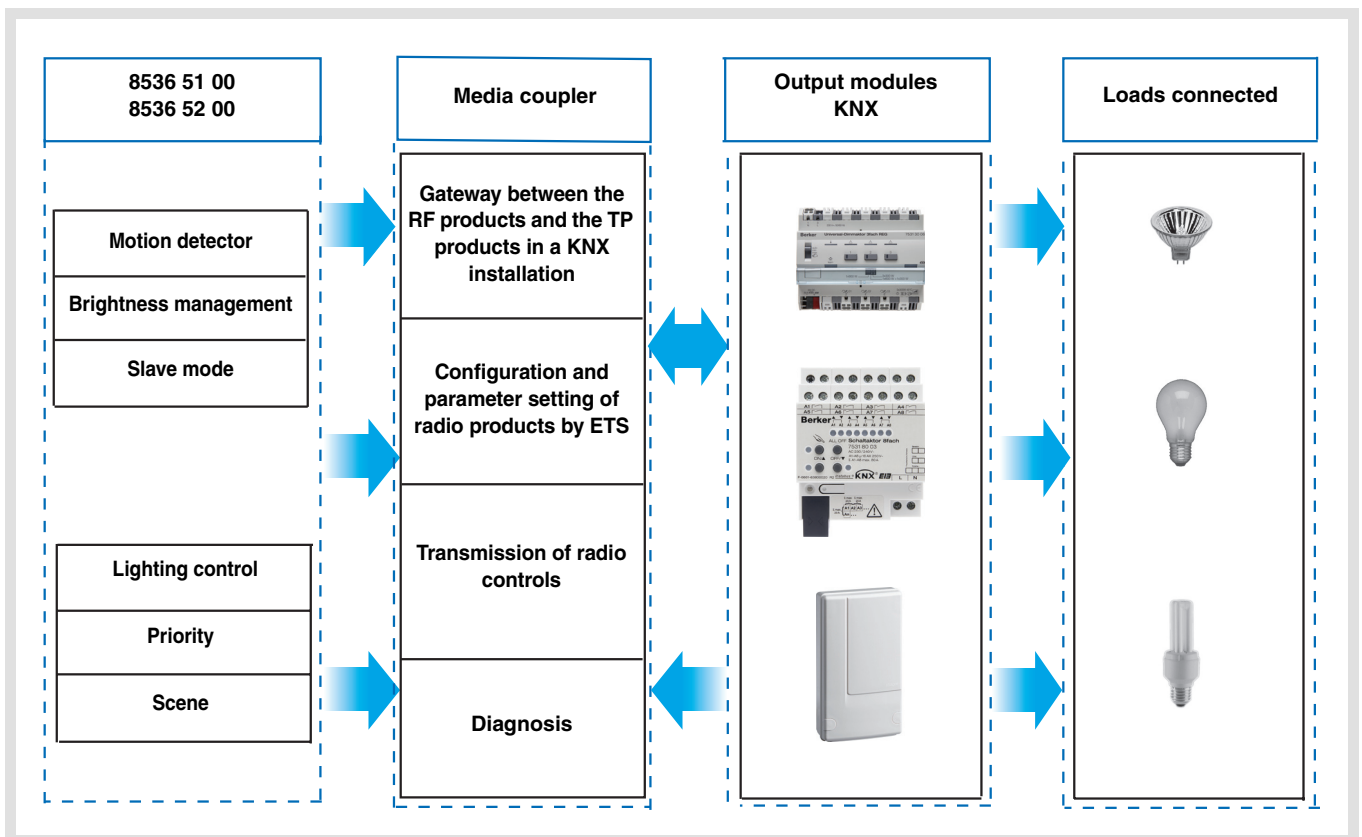


application software

- Manufacturers
- Berker
- RF devices
 - Actuator
 - Sensors

Infrared battery / solar Radio quicklink detector
Electrical / Mechanical characteristics: see product information

	Product reference	Product designation	Application software ref.	TP device RF device
	8536 51 00	Battery infrared Radio detector	S85365100	
	8536 52 00	Solar infrared Radio detector	S85365200	



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1. Presentation

1.1 General points

All the radio receivers referred to in this document are Quicklink  RF devices. They can be recognised by the configuration **cfg** push button with which they are all equipped. Quicklink  indicates the configuration without tools mode.

These products can also be configured in E mode by the USB configurer or in S mode by ETS via the media coupler.

In this case, the version of the 8505 01 00 must fulfill the following characteristics:

- Firmware: $\geq 1.2.5$
- Plug-in: $\geq 1.0.11$

This document describes the configuration principle with the ETS software via the media coupler and the functions available in this mode.

Within the same installation, a single configuration mode may be used.

To re-use a product which has already been programmed in another installation, whatever the configuration mode, a factory reset must be performed on the product.

Specifics for quicklink radio transmitters

Pressing the **cfg** button activates configuration mode. In this mode, the dialogue product is bi-directional. For numbering or programming operations, it will therefore no longer be necessary to bring the transmitters to be configured up to the media coupler. It is only necessary to remain within radio range.

1.2 Function Description

The main functions are the following:

■ Movement detector and light measurement device

The radio detector senses the infrared radiation from the heat emitted by bodies in motion. It makes it possible to send commands for lighting, and scenes in case movement is detected (people present).

A potentiometer makes it possible to limit the sensitivity of the detection so that it can be adapted to the environment.

The light level can be set by a potentiometer located on the product.

■ Lighting channel

The lighting channel makes it possible to control a charge in case movement is detected, when the ambient light is below an adjustable threshold.

■ Lighting time delay

A setting potentiometer located on the product enables the turn off time to be set. The light turns off after the time delay for turning off if no movement has been detected.

■ Slave Configuration

This mode enables the detection zone to be turned off by association one or more slave detectors with a master product. The master product manages the light level. These radio detectors cannot be configured as a master.

■ Scene and Scene Presence / Absence functions

The Scene function sends group controls to different kinds of outputs to create ambiances or scenarios (scenario with movement present, scenario without, etc.). The Scene Presence / Absence function enables one scene to be activated when movement is present and another scene when there is no movement present.

■ Status indication

The status indication function enables them to send an object **low battery** to an output.

2. Configuration and settings

2.1 Objects List

Object \ Function	ON / OFF	Toggle switch	Timer	Brightness value	Brightness value Presence / Absence	Scene	Scene Presence / Absence
ON / OFF	X	X					
Timer			X				
Absolute dimming				X	X		
Scene						X	X
Battery Status	X	X	X	X	X	X	X

2.2 Setting parameters

When the Slave function is not used, the lighting channel parameters appear.

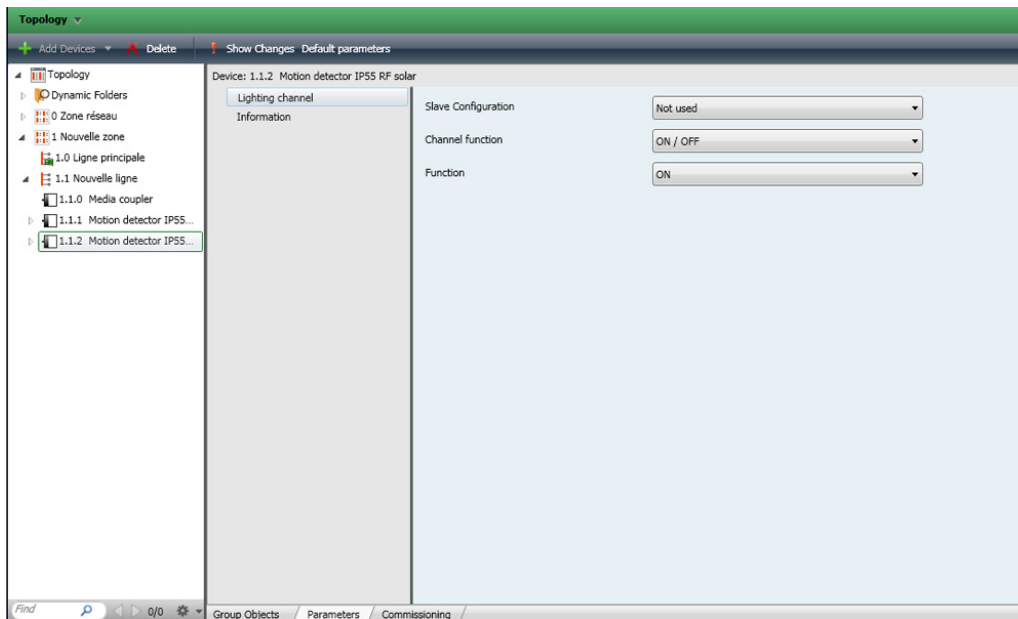
The Slave function enables a link to be established between a Master detector and a slave detector. The Radio detector cannot be configured as a master.

■ Functions of the Lighting channel

The **Channel function** makes it possible to select the command sent after valid movement detection ("presence" of person) and, if necessary, the command sent after the lighting time delay ("absence" of person).

- Detection of valid movement:
For the lighting channel, detecting movement and ambient light below an adjustable light level.
- Time delay: Adjustable via a potentiometer on the product.

→ Parameter Setting screen



■ ON / OFF channel function, Timer

These functions are used to control switching a lighting circuit or any other load on or off.

The ON / OFF function sends the **ON / OFF** object.

The Timer function sends the **Timer** object.

→ Parameters

Parameter	Description	Value
ON / OFF channel function	This parameter defines the command sent after valid movement detection * and, if necessary, the end of the time delay.**	OFF, ON, OFF / ON, ON / OFF Default value: ON
Timer channel function	In the case of a timer, the time delay for turning on the light is managed by the output pilot.	

* Detection of valid movement (Presence):

For the lighting channel: movement detected and ambient light below the threshold.

** Time delay:

For the lighting channel: Adjustable via a potentiometer on the product.

■ Brightness value channel function, Brightness value Presence / Absence

These functions enable commands to be sent to dim the lighting on 1 or 2 levels: A value after movement has been detected and another value at the end of the lighting time delay.

The Brightness value functions send the **Absolute dimming**.

The output status commanded is received on the object **Status indication**.

→ Parameters

Parameter	Description	Value
Brightness value (Presence)	Defines the absolute level of variation of the output after a valid movement detection.	0% to 100% in 1% steps Default value: 100%
Brightness value (Absence)	Defines the absolute level of variation of the output at the end of the time delay.	0% to 100% in 1% steps Default value: 0%

■ Scene channel function and Scene Presence / Absence

The Scene function can be used to send group commands to different sorts of outputs to create atmospheres or scenarii (leave scenario, reading atmosphere, etc.).

The Scene function sends an object **Scene**.

→ Parameters

Parameter	Description	Value
Scene number (Presence)	This parameter defines the number of the scene after detection of a valid movement.	Scene 1 to Scene 8 Default value: Scene 1
Scene number (Absence)	This parameter defines the number of the scene at the end of the time delay.	Scene 1 to Scene 8 Default value: Scene 2


Scene learning must be done from another transmitter.

2.3 Configuration with media coupler (ETS version \geq 3.0f)

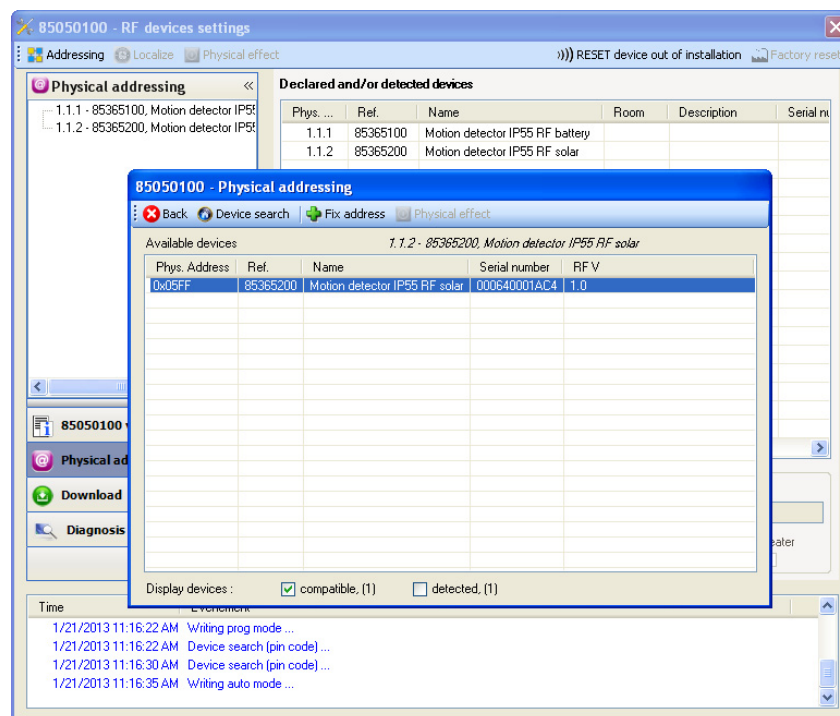
■ Configuration principle

The 8505 01 00 media coupler enables configuration by ETS of RF devices for a KNX radio installation or a mixed KNX installation including RF devices and wired buses. The radio receivers always function in bi-directional mode.

Procedure:

- Create a line reserved for RF devices in your ETS plan. First insert the media coupler into this line, then insert the other RF devices into this line,
 - Perform the programming, parameter settings and group addressing for all the RF products except for the media coupler,
 - Download the physical address of the media coupler. This must be of the type 1.1.0. (always end with a zero),
 - Install the media coupler plug-in: Right-click on the product in the ETS tree structure, then select **edit the parameters**. Windows Administrator rights are necessary to install the plug in.
- Physical addressing of the radio transmitters:
- Click on the button **Physical addressing** to display the physical addressing screen for the plug in,
 - Select the device to be addressed, then click on the field **Addressing** in the menu line at the upper left of the window,
 - Press the **cfg** button for each transmitter to be addressed, then click **Device search** (if the device is not found by the search, perform a **RESET device out of installation**, or manually on the device by pressing the **cfg > 10 s** button),
 - Select the device to be addressed and click on **Attribute address**. The physical addressing of the product is performed. The product is now part of the installation.
 - After downloading the physical address, the  symbol appears in front of the product,
 - Repeat this operation for the other radio transmitters.

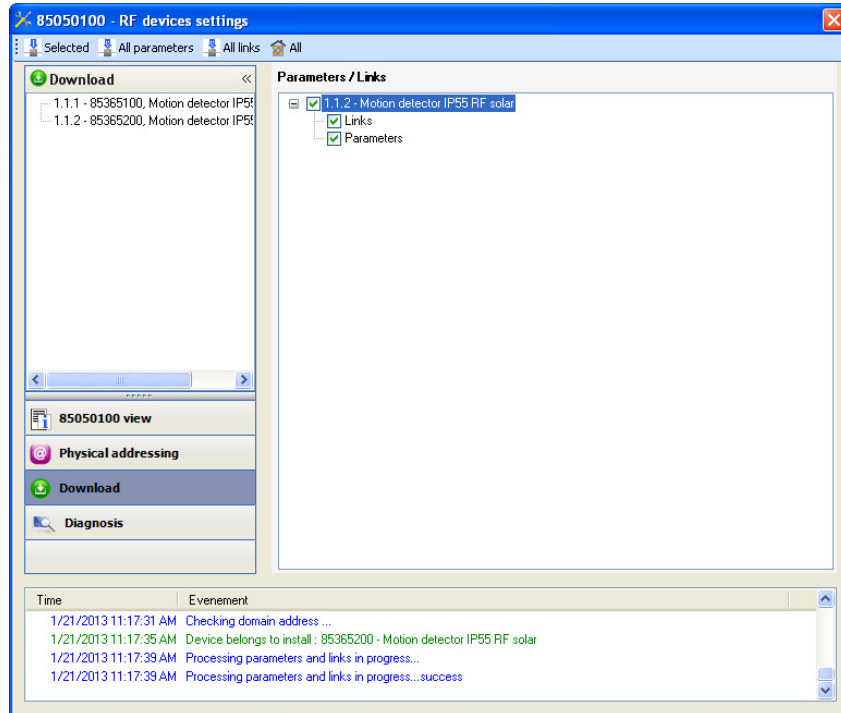
Caution: After an interruption in the above operations greater than 10 mn, it is necessary to press the **cfg** button again on the transmitter devices to be programmed.



■ Downloading the program and the parameters:

This operation is performed on the **Download** screen of the plug in,

- Click on **Download** and follow the instructions on the screen.



To test the functions and the KNX radio communication, return to normal use mode and wait 15 s before pressing a control button on a transmitter.

Caution: The media coupler plug-in must be deactivated during the functional tests.

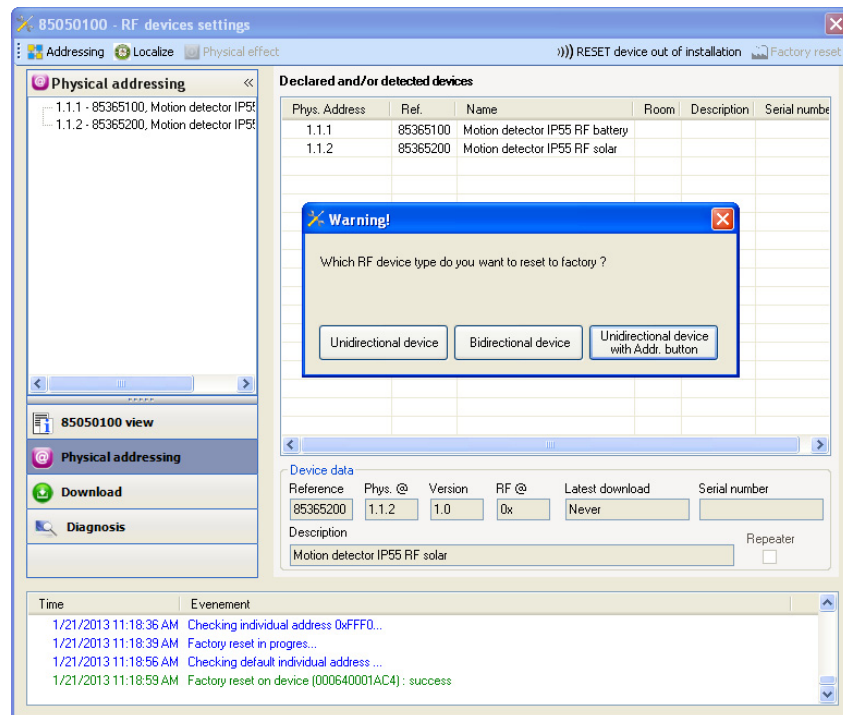
NB: For more information, refer to the description for the 8505 01 00 application software.

3. Factory reset

This function enables the product to be returned to its initial configuration (factory reset). After a device reset, the device can be re-used in a new installation. A factory reset can be performed either directly on the product or by the media coupler plug-in. This last solution is recommended if the product is part of an installation configured by ETS, thus the device is erased from the project.

3.1 Factory reset by ETS via the media coupler

- For a product which is part of the installation (known by the media coupler): In the **Physical addressing** menu, select **Factory reset** and then follow the instructions which appear on the screen,
- For a product which is not part of the installation (unknown by the media coupler): In the menu **Physical addressing**, select **RESET device out of installation**, then **Unidirectional device with Addr. button**.



3.2 Factory reset on the product

It is always possible to perform the factory reset directly on the device.

Factory reset on the product:

- Do a long key press (> 10 seconds) on the **cfg** push button, release the button when the **cfg** LED blinks,
- Wait for the **cfg** LED to switch off, indicating that the factory reset has been completed.

Remark:

To re-use a product which has already been programmed in another installation, whatever the configuration mode, a factory reset must be performed on the product.

4. Characteristics

Product	8536 51 00 / 8536 52 00
Max. number of group addresses	60
Max. number of links	85

Berker GmbH & Co. KG

Klagebach 38

58579 Schalksmühle/Germany

Telefon + 49 (0) 2355/905-0

Telefax + 49 (0) 2355/905-111

www.berker.de