



application software

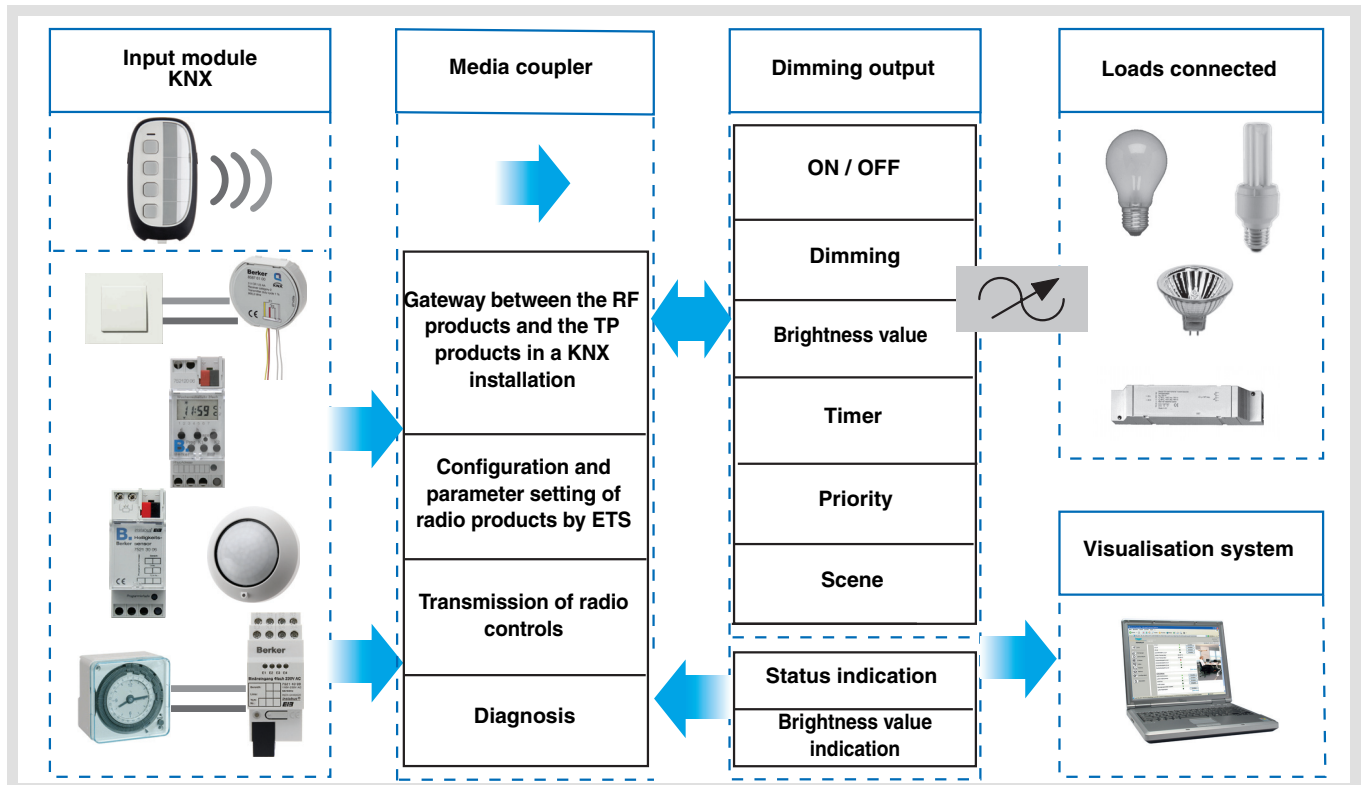
RF dimmer quicklink

Electrical / Mechanical characteristics: see product information

- Manufacturers
- Berker
- RF devices
- Actuator
- Sensors

	Product reference	Product designation	Application software ref.	TP device RF device
	8547 51 00	Flush-fitting 200W 1 output dimmer module	S85475100	

Dimming output



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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.

1.2 Function Description

1.2.1 Dimming output

The application software is used to configure the output for Dimmer applications.

The main functions are the following:

■ ON / OFF

The ON / OFF function is used to switch the output ON or OFF.

ON: switching on at the level of lighting active the last time the lighting was switched on.

OFF: switching OFF.

The control can come from push buttons.

■ Status indication

The Status indication function displays the status of the output contact. It allows a Toggle function to be created by sending the status indication to each push button of the group.

■ Relative or absolute dimming (Brightness value)

The relative dimming allows increasing or decreasing the lighting level as long as a push button is pressed down. The absolute dimming allows defining in % the lighting level to reach by means of the **Lighting level** object.

■ Timer

The Timer function is used to switch a lighting circuit ON or OFF for an adjustable time. Depending on the operation mode selected, the output may be delayed for ON or OFF switching. An adjustable cut-OFF pre-warning indicates the end of the delay time by dividing the lighting level by two. The Timer function can be interrupted via a long key press before the time delay expires.

■ Priority

The Priority function allows overriding an output to an adjustable lighting level. This command has the highest priority. No other command is taken into account if a priority is active. Only a priority end command re-enables the other commands.

Application: maintaining lighting ON for safety reasons.

■ Scene

The Scene function groups a set of outputs. These outputs can be set to an adjustable predefined status. Pressing a push button activates a scene.

2. Configuration and settings

2.1 Outputs

2.1.1 Objects List (Dimming function)

12	Output	ON / OFF	1 bit	C	R	W	-	-	Low
13	Output	Dimming	4 bit	C	R	W	-	-	Low
14	Output	Brightness value	1 Byte	C	R	W	-	-	Low
15	Output	Timer	1 bit	C	R	W	-	-	Low
16	Output	Priority	2 bit	C	R	W	-	-	Low
17	Output	Scene	1 Byte	C	R	W	-	-	Low
18	Output	Status indication	1 bit	C	R	-	T	U	Low
19	Output	Brightness value indication	1 Byte	C	R	-	T	U	Low

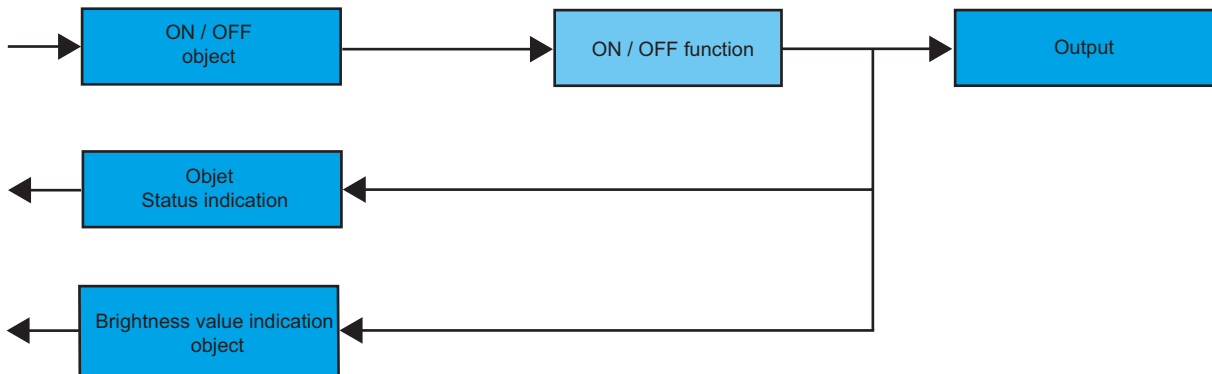
2.1.2 Parameter setting

■ ON / OFF, Status indication and Brightness value indication functions

The ON / OFF function is used to switch the output ON or OFF.

- ON: switching on at the level of lighting active the last time the lighting was switched on.
- OFF: switching OFF.

The output status and the lighting level are indicated on the bus by the **Status indication** object and **Brightness value indication** object.



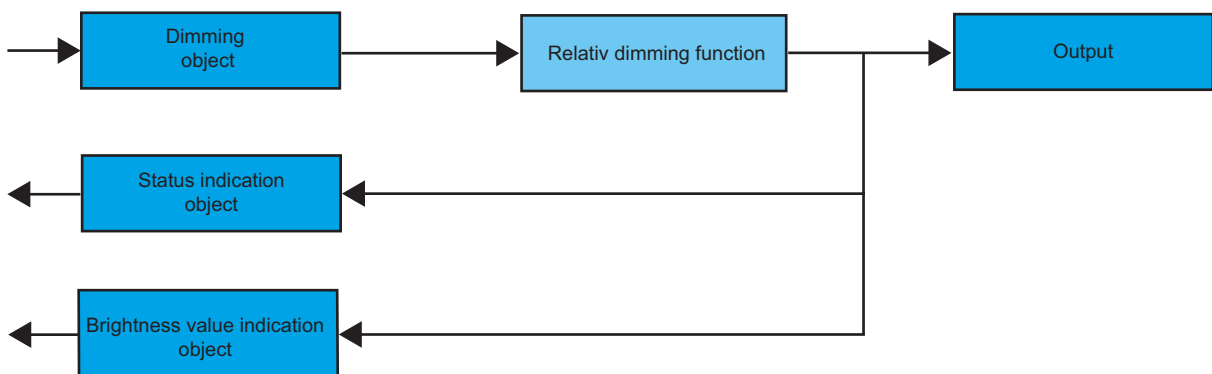
■ Dimming function

The dimming can be relative or absolute.

- Relative dimming

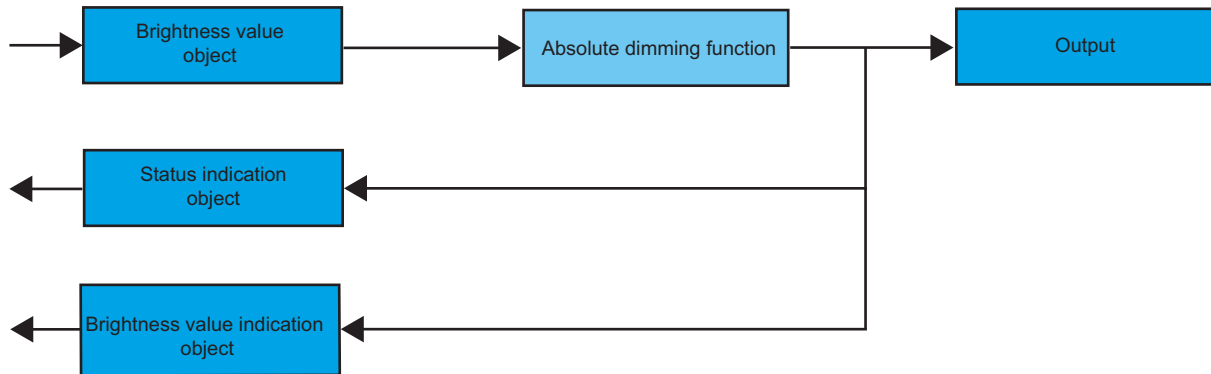
The relative dimming allows increasing or decreasing the lighting level of the lighting circuit as long as a push button is pressed down.

The relative dimming function is started by the **Dimming** object.



- Absolute dimming

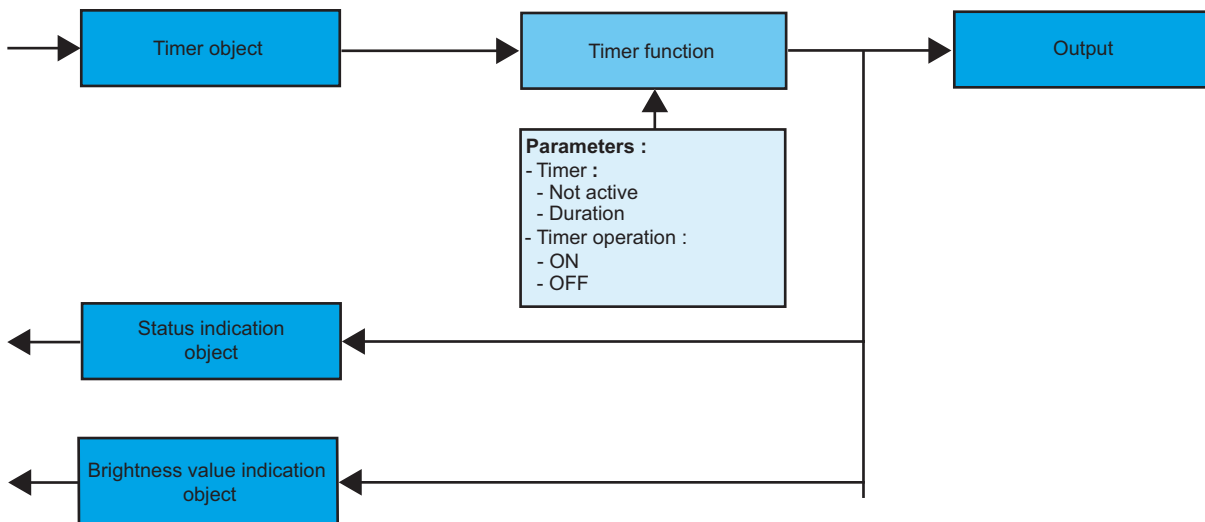
The Absolute dimming function allows applying a brightness level to the lighting circuit when switching it ON or OFF. The absolute dimming function is started by the **Brightness value** object.



■ Timer function

The Timer function is used to switch a lighting circuit ON or OFF for an adjustable time. The function is started by the **Timer** object.

- Parameter



Designation	Description	Values
Timer	This parameter defines the length of the delay time.	Not active Range [1 s - 24 h]* Default value: 3 min
Timer operation	This parameter defines whether the delay time triggers an ON or an OFF status.	ON OFF Default value: ON

* Setting range [1 s 24 h]

1 s, 2 s, 3 s, 5 s, 10 s, 15 s, 20 s, 30 s, 40 s, 45 s, 1 min, 1 min 15 s, 1 min 30 s, 2 min, 2 min 30 s, 3 min, 5 min, 15 min, 20 min, 30 min, 1 h, 2 h, 3 h, 5 h, 12 h, 24 h.

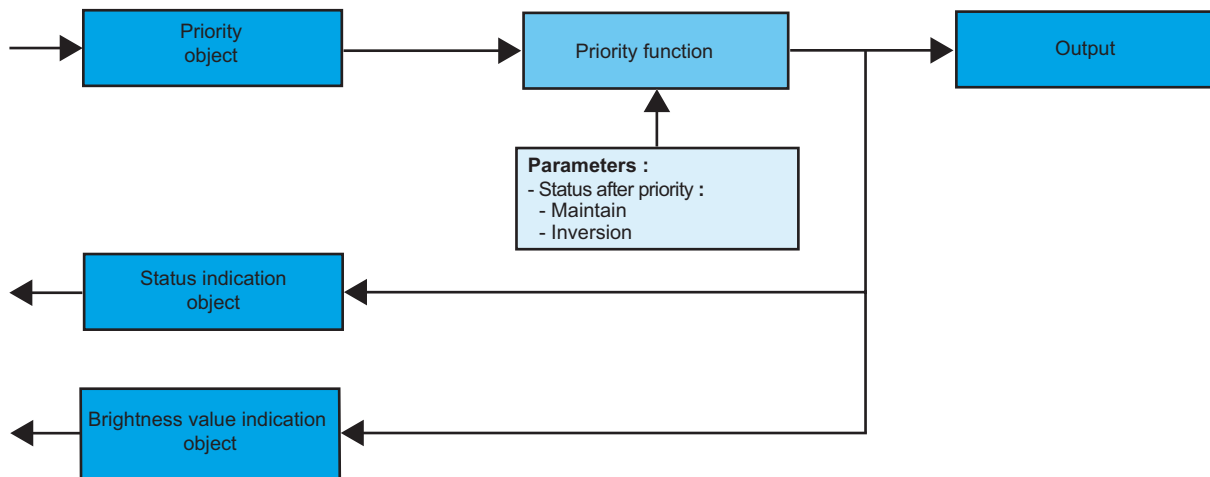
■ Priority function

The Priority function allows the outputs to be forced and maintained at a definite ON or OFF status imposed by the input. This function is started by the **Priority** object.

Priority is the function with the highest priority. Only a cancellation command for the priority can end the priority and authorise other commands to be followed again.

→ Description of the **Priority** object

Value	Output behaviour
00	Priority end
01	Priority end
10	Priority ON
11	Priority OFF



→ Parameter

Designation	Description	Values
Status after priority	This parameter defines the level of lighting applied at the end of the priority	Maintain, Inversion <ul style="list-style-type: none"> • Maintain: The output is maintained in the status which was active before the priority. • Inversion: Inversion of the output's status with regards to the status active during Priority (ON to OFF and OFF to ON). Default value: Maintain.

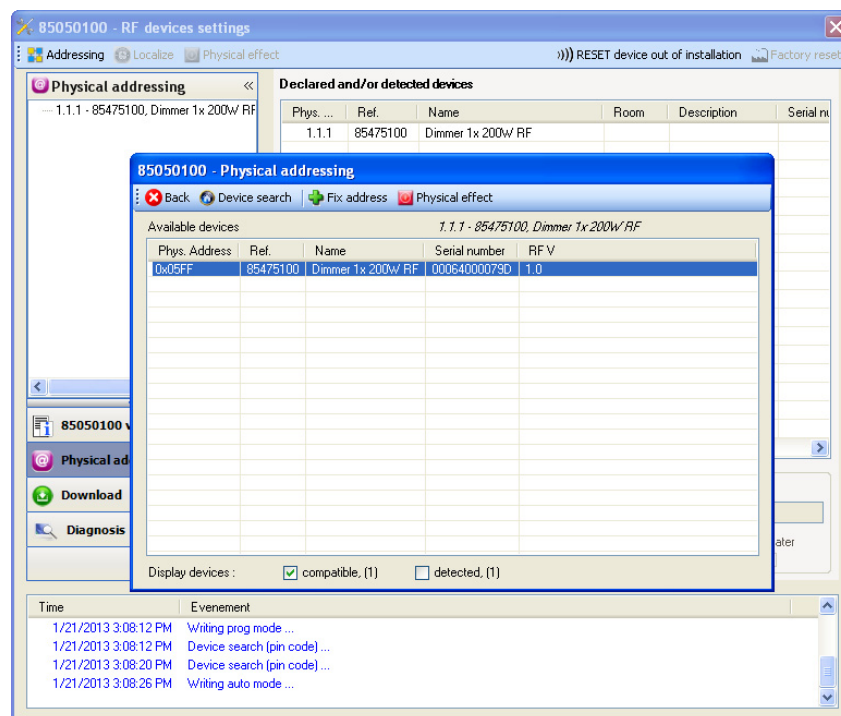
2.2 Configuration with media coupler (ETS version \geq 3.0f)

■ 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 emitters / receivers always function in bidirectional 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,
 - Choose a product from the list and click on the **Addressing** button in the menu line at the top of the window,
 - Click on **Product search**, the list of compatible products within radio range will be displayed. If the product is not found by the search, perform a **RESET device out of installation**. The factory reset may also be performed manually on a product by pressing the cfg button for >10 s,
 - Select the desired product from the list generated by the search, then click the button **Fix address**,
 - The physical addressing of the product is performed. The product is now part of the installation.



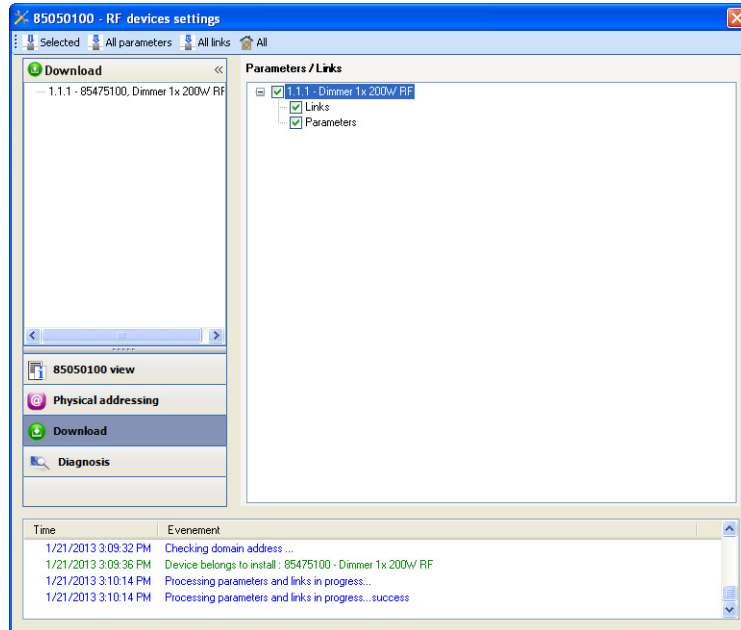
The **Physical effect** button enables the selected product to be identified and located.

■ 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 radio KNX functions and communication, return to normal use mode and wait 15 s before executing a command.

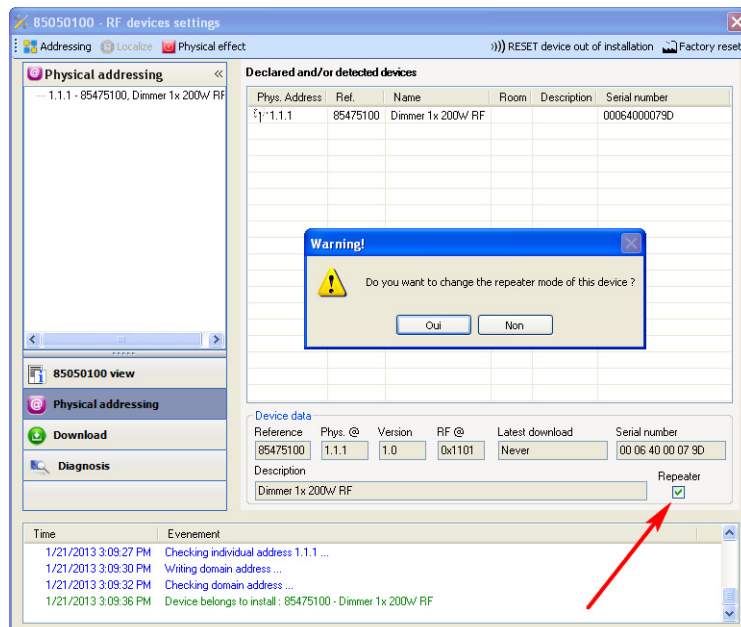


Caution: The media coupler plug-in must be deactivated during the functional tests.

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

■ Repeater Function

It increases the radio range of the system by re-sending the messages received by the product.



To activate the Repeater function, tick the repeater box on the physical addressing screen of the product concerned.

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. The latter solution is recommended if the product is part of the installation configured by ETS, which erases the product 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 **Physical addressing** menu, select **RESET device out of installation**, then select **Bi-directional product**.

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. Main characteristics

Product	8547 51 00
Max. number of group addresses	96
Max. number of links	100

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