



## INSTALLATION INSTRUCTION: SC3 RF Segment Controller

The SC3 RF Segment Controller (Segment Controller in the remainder of this document) is a product in the Luminext program for dynamic dimmable street lighting with remote management. The Segment Controller has integrated antennas for 868 MHz and GSM and has an IP65 housing.

### Safety



- Installation should be performed by qualified personnel only.
- Adhere strictly to the installation instruction below to avoid danger and damage to the Segment Controller.
- Disconnect power at the source before installation, inspection or removal. The voltages at the primary side of the Segment Controller are not touch proof.



- Do not use the Segment Controller if it is damaged.
- The electrical installation must be in conformance with the national legislation and relevant standards.
- The mains connection of the Segment Controller must be provided with a 2A fuse and a possibility to disconnect the mains.

**Contact information: for more info please contact the product supplier**

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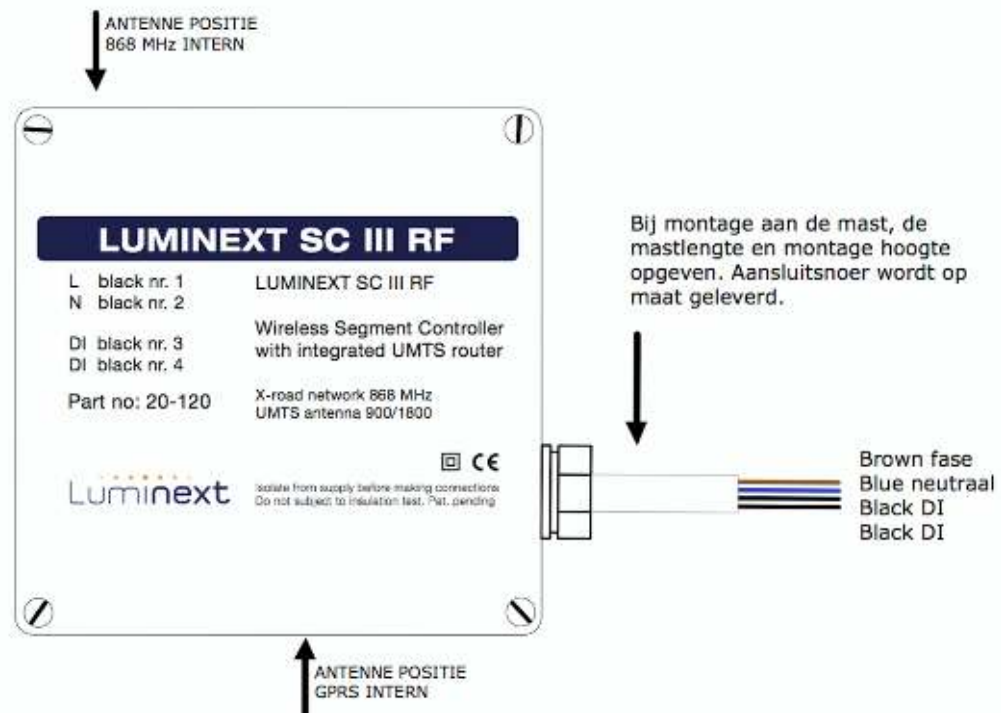
## Installation

1. Disconnect the power to the Segment Controller and read the safety instructions above.
2. Check the Segment Controller: make sure the Segment Controller is not damaged.
3. If needed, connect external 868 MHz and GSM antennas.
4. Use 1.5 mm<sup>2</sup> wiring for all connections. Push the wires completely into the terminal block and turn the screws. Use wire end sleeves when using flexible wires.
5. Connect a 230V AC power cable to the Segment Controller according to the wiring schedule below.
6. Close the cabinet. Take care that no wires or objects get in between the seals.
7. Connect the power cable to 230 V AC power and test the correct functioning of the Segment Controller. In case of malfunctioning check the wiring.
  - When connect to power the green LED will flicker (see table).
  - When communication with Luminizer takes place, the red LED will flicker (see table). This may take several minutes.

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## Wiring diagram



Connect the 230VAC to the terminals marked with L and N.

If needed, a hand – off- auto switch can be connected to the digital input.

## Configuration

When the Segment Controller is powered, the SIM card is activated and the gateway is administrated in Luminizer, the red and green LED should flicker. Dependent of the GSM range this may take several minutes.




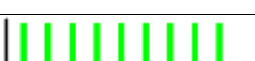



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## Green LED

### Mobile Network indication

Green LED	LED indication	Description
	Always OFF	Segment Controller is not powered
	Always ON	SC3 is powered but has no connection to the mobile network
	Flickers slowly, interval 2sec	SC3 is connected to the mobile network
	Flickers fast, interval 0.75sec	Data communication via the mobile network
	Flickers really fast 100ms Off and 200ms On	There is a problem with the software of the SC3, contact Luminext Support

## Red LED

### Status indication on application level

Red LED	LED indication	Description
	Always OFF	Segment Controller is not powered
	Always ON	De SC3 is powered but has no connection to Luminizer
	Flickers slowly, interval 1.6sec	De SC3 is connected with Luminizer and operates correctly
	Flickers fast 100ms Off and 200ms On	The power supply is to low
	Flickers three times fast, interval 1.6sec	There is a problem with the PUK or PIN code of the inserted simcard.

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## Mounting

The Gateway can be mounted inside a cabinet as well as externally on a light pole. In the cabinet you must apply the 'Vandal-proof cabinet antenna, which needs to be installed in the cabinets roof.



*Example: light pole*

## Usage

The Segment Controller will control the lamps connected to the surrounding OLC Mira network.

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## Compliance



This product complies with the European directives and relevant standards for low voltage, EMC, RED, REACH and RoHS. The Segment Controller contains an 868 MHz and GSM radio. The applied frequency of the 868 radio is within the band 869.400 – 869.650 MHz and the maximum transmit power is +20 dBm. The applied frequency of the GSM radio is within the band 880 - 960 MHz or 1710 - 1880 MHz and the maximum transmit power is +35 dBm or +32 dBm.

Hereby, Luminext declares that the radio equipment type Segment Controller is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at [luminext.eu](http://luminext.eu)

## Repair

Do not open this product. In case of failure the Segment Controller must be replaced.



## Recycling

Do not dispose this product as household waste, but bring it to an appropriate collection point for recycling.

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