



INSTALLATION INSTRUCTION: Luminext Outdoor Lamp Controller OLC300S

The Luminext OLC300S is a product in the Luminext program for dynamic dimmable street lighting with remote management. The OLC300S is suitable for DALI and 1-10V applications and is provided with a digital input for connection of external contacts. The OLC300S can be mounted inside a luminaire together with the appropriate antenna. The OLC300S controllers automatically forms a wireless-sensor-and-control network that is self-organizing and self-synchronizing.

Safety



- Installation and maintenance should be performed by qualified personnel only.
- Adhere strictly to this installation instruction to avoid danger and damage to the OLC300S.
- Disconnect power at the source before installation, inspection or removal. The voltages at the primary and secondary side of the OLC300S are not touch proof.



- Do not use the OLC300S if it is damaged.
- Never power the OLC300S without the associated antenna (Luminext article 40.20.300) properly connected.
- The electrical installation must be in conformance with the national legislation and relevant standards.
- The mains connection of the OLC300S must be provided with a 2A fuse and a possibility to disconnect the mains.
- The OLC300S must be mounted in an IP65 classified housing.

Application

Refer to the OLC300S product sheet (see luminext.eu) for the maximum ratings of the relay and the environmental conditions.

Contact information: for more info please contact the product supplier

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Installation

1. Disconnect the power to the luminaire and read the safety instructions above
2. Check if the luminaire and/or housing is suitable for mounting the OLC300S: pay special attention to if the luminaire is IP65 and if the driver is suitable
3. Check the OLC: make sure the OLC300S is not damaged
4. Directly connect the suitable antenna (Luminext article 40.20.300). Never power the OLC300S without an appropriate antenna connected
5. Fix the SMA antenna connector with a wrench so this won't turn loose due to vibrations.
6. An extra barcode sticker is attached to the OLC300S. Remove the barcode sticker and stick it clearly visible to the outside of the luminaire. The installer will register this barcode information during the installation process.
7. There is a third sticker with barcode present. This should be attached at 50 cm from the bottom of the power cable
8. Mount the OLC300S sturdily to the luminaire, e.g. with 2x M4 screw/bolt (140mm distance). Do not place the OLC300S against the driver. If in doubt please contact Luminext.
9. De OLC300S can be wired in four configurations: DALI driver, 1-10V driver, 230V load and/or external contact. See wiring diagrams below. Use either 1-10V or DALI, not both. Do not connect more than one DALI driver to an OLC300S
10. When a SR-Driver or D4i driver is used you have to switch OFF the DALI PSU of the driver.
11. Use 1.0 mm² wiring for all connections. Push the wires completely into the terminal block. Use wire end sleeves when using flexible wires
12. Mount the antenna with the 3M double sides adhesive tape to the OLC. Make sure that the antenna has as much room as possible in the luminaire and is not placed against or underneath a power supply cable or against the housing. Do not place the antenna completely on the OLC (check picture below).



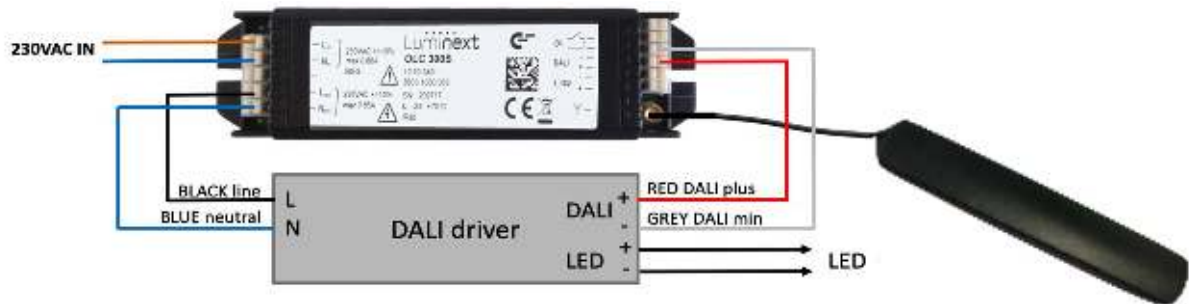
13. Connect a 230V AC power cable to the OLC according to the wiring schedule below.
14. Close the luminaire. Take care that no wires or objects get in between the seals.
15. Connect the power cable to 230 V AC power and test the correct functioning of the luminaire and OLC300S. In case of malfunctioning check the wiring.
 - When connected to power the lamp will start burning. This might take up to 20 seconds.
 - Check with a test gateway or test unit to ensure that the controller works correctly.

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Wiring diagrams

OLC300S + DALI driver:



Connect the power input of a DALI driver to the switched 230V output of the OLC300S.

OLC300S + 1-10V driver:



Connect the power input of a 1..10V driver to the switched 230V output of the OLC300S.

OLC300S + 230V load:



Connect the 230V load to the switched 230V output of the OLC300S.

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OLC300S + external contact:



Connect a voltage free contact to the digital input of the OLC300S. This can be combined with one of the previous three configurations.

Configuration

When the OLC300S is powered, the connected lamp should be on. Use Luminizer for configuration of the OLC300S.

Usage

The OLC300S will control the connected driver and lamp.

Compliance

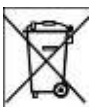


This product complies with the European directives and relevant standards for low voltage, EMC, RED, REACH and RoHS. The OLC300S contains a radio. The applied radio frequency is within the band 869.400 – 869.650 MHz and the maximum transmit power is +20 dBm.

Hereby, Luminext declares that the radio equipment type OLC300S is compliant with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at luminext.eu.

Repair

Do not open this product. In case of failure the OLC300S must be replaced.



Recycling

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

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