

NEXT GEN

QUICK START

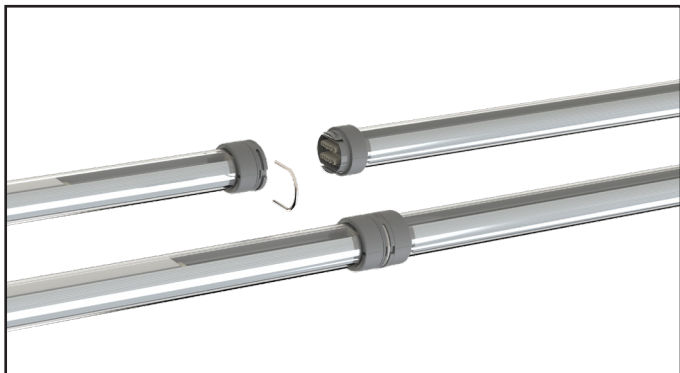
1. Assembling the Next Gen

Always check the delivery and ensure that all necessary materials are available before starting the assembly.



3. The Next Gen Connection

To connect the Next Gen luminaires, the connectors must be slid into each other. Then, use the metal U-lock to secure the connection. Align the luminaires downward for the correct projection on the floor.



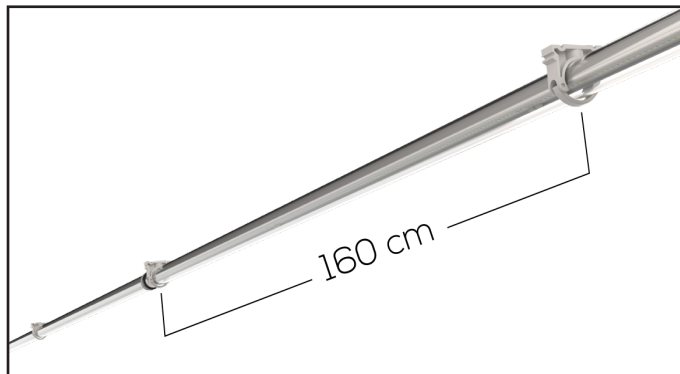
5. Sensors and Emergency Luminaires

Place the sensor between two Next Gen luminaires and secure both connections using U-locks. Always install 2 suspension points approximately 10 cm away from the sensor. The same applies to emergency lighting units.



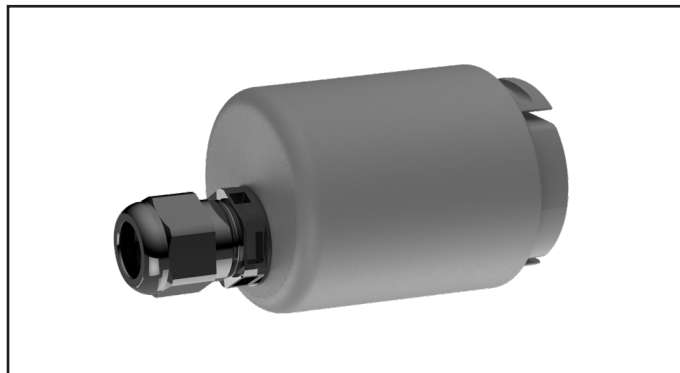
2. Mounting Attachment Points

Use 160 cm as the measurement for marking the attachment points (first attachment point at approximately 10 cm from the beginning of the first luminaire). Note: The side where the power supply is located is the 'front,' and the lighting line starts from this side.



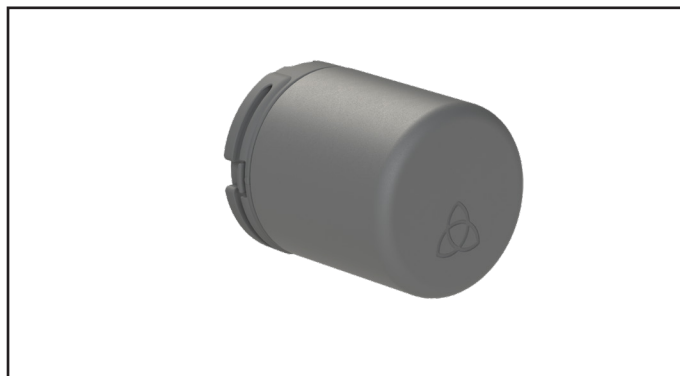
4. Connecting the PLUG IN

This connects the connector of the first luminaire to the mains power supply. (See the next page, point 7)



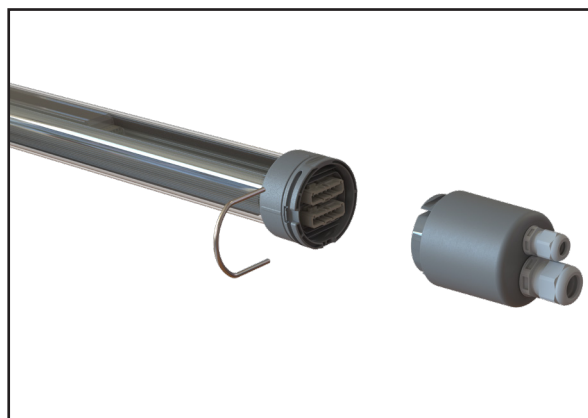
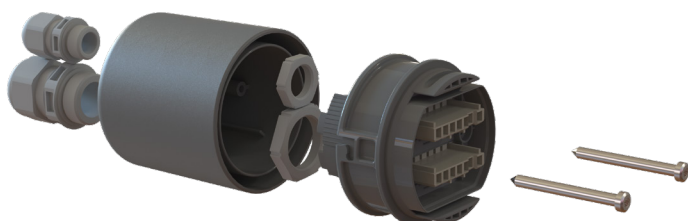
6. End of Lighting Line

At the end of the Next Gen lighting line, a PLUG END must always be installed. To connect to another section of the lighting line, use the PLUG LINK.



7. Connecting PLUG IN

LUM-NG-01-xx-PCIN-02



The PLUG IN comes standard with an M25 cable gland.

Optionally, you can make an additional hole above it for an M16 cable gland. You are limited by these cable entries, and you can never combine all connections.

Use a TX20 bit or screwdriver to assemble the PLUG IN.



CEM

**Central emergency
Centralized emergency
lighting**

Connect the UPS here with 2 separate circuits. The emergency luminaires will automatically switch between circuits, one luminaire at a time.

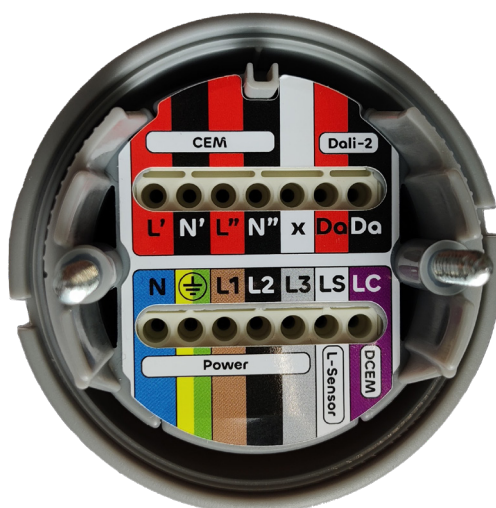
2 x 2,5 mm²



DALI-2

Connect DALI-2 wiring here.

2 x 1,5 mm²



Power

Here, you connect the mains voltage through: neutral, ground, phase 1, and optionally phase 2 and phase 3

3 x 2,5 mm² or
5 x 2,5 mm²



Sensors

If there are sensors in the lighting line, and it is a system without DALI-2, you should connect the phase (brown) not to L1 but to LS. LS is connected to all sensors and, upon detection, will connect them to L1, turning on all lamps.

If you use sensors over multiple phases, connect these phases via LS, L2, and L3. Non-DALI sensors can only switch one phase.

1 x 2,5 mm²



DCEM

**Decentralized emergency
lighting**

LC - (L constant)
Unswitched phase.

If you use decentralized emergency luminaires in the lighting line, there must be a constant current here. This current charges the battery packs, and when it fails, emergency lighting turns on.

The neutral is shared.
1 x 2,5 mm²

8. Connecting IN BOX

LUM-NG-02-00-INBOX-01



DALI-2

Connect DALI-2 wiring here.

2 x 1,5 mm²



Sensoren

If there are sensors in the lighting line, and it is a system without DALI-2, you should connect the phase (brown) not to L1 but to LS. LS is connected to all sensors and, upon detection, will connect them to L1, turning on all lamps. If you use sensors over multiple phases, connect these phases via LS, L2, and L3. Non-DALI sensors can only switch one phase.

1 x 2,5 mm²



DCEM

Decentralized emergency lighting

LC - (L constant)

Unswitched phase.

If you use decentralized emergency luminaires in the lighting line, there must be a constant voltage here. This voltage charges the battery packs, and when it fails, emergency lighting turns on.

1 x 2,5 mm²



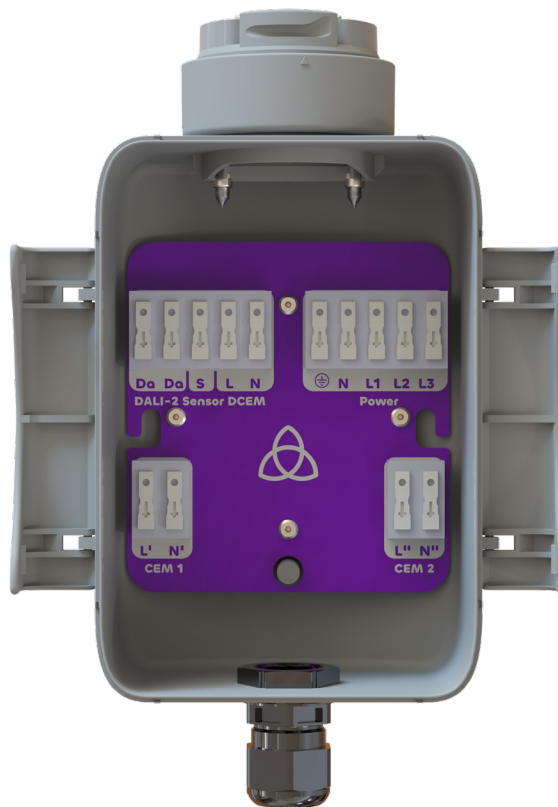
Power

Here, you connect the mains voltage through:

neutral, ground, phase 1, and optionally phase 2 and phase 3

3 x 2,5 mm² of

5 x 2,5 mm²



Screws

The IN BOX closure can be secured with 4 screws if needed. For example, to make it vandal-proof in parking garages. The screw is an ST2.9 x 9.5 TX10.



CEM

Central emergency Centralized emergency lighting

Connect the UPS here with 2 separate circuits. The emergency luminaires will automatically switch between circuits, one luminaire at a time.

Cable Glands

An M25 cable gland is pre-assembled. You can drill 2 x M20 and 2 x M16 cable glands yourself.



NEXT GEN

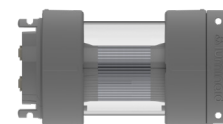
QUICK START

Switching between phases:

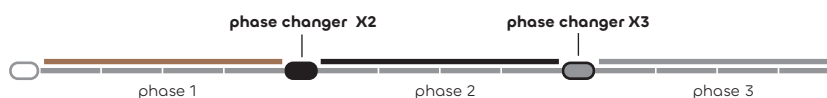
If you exceed the maximum line length, you will need to distribute the lighting line across 3 phases, and this can be done using a phase changer. There are 4 different versions shown below.

If you have sensors in the lighting line but no DALI-2, you will need 'S2' and 'S3'.

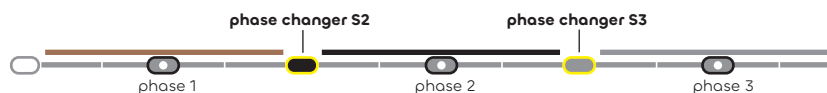
In all other cases, you can use 'X2' and 'X3'.



Xc Xd Dc Dd



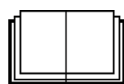
Xc Xd with sensors



The phase changer crosses the wires of the phases. If you apply the X2 changer twice in the lighting line, the section behind the 2nd changer will be powered by the 1st phase again.



This installation manual provides practical assistance for installing the Next Gen lighting line system. The contents of the manual should be known to anyone working on the Next Gen before commencing installation work.



In addition to this manual, personnel responsible for installing the Next Gen must have received electrical training and be authorized to perform installation work. The employer/contractor must ensure that their personnel and/or employees of installation companies meet the above requirements. Despite the utmost care taken in compiling this manual, it is possible that you may encounter an unsafe situation that is not described in this manual. Winterwarm Heating Solutions B.V. requests that you report such situations.

Despite our continuous focus on safety and our efforts to prevent dangerous situations, it is impossible to make work completely risk-free. The safety instructions described in this document should always be read and strictly followed in combination with the safety regulations applicable in your company and/or at the construction site! Ensure that everyone remains alert to unexpected situations. A moment of carelessness can have far-reaching consequences. Read all regulations carefully and inquire with the employer/contractor if there are any uncertainties.



- Do not leave modules and connection materials lying on the work floor where people can trip or fall over them.
- Never leave modules and connection materials unattended on a scaffold where they could fall.
- Do not leave packaging materials lying on the work floor where people can trip or fall over them; dispose of them immediately in the designated waste container.
- Do not throw cut cable pieces on the work floor; dispose of them in the designated waste container.

If the following warnings, safety regulations, and instructions are not followed, it can lead to severe or fatal personal injury and (irreparable) damage to the Next Gen system.

- **The Next Gen may only be installed by a certified installer.**
- **Switch off the mains voltage before carrying out work on the system. Ensure that the power cannot be accidentally switched on. Cover switches and attach safety labels to them.**
- **Use only well-insulated tools and use tools for their intended purpose.**
- **Ensure that there is sufficient daylight or use mobile lighting.**
- **Make sure you do not mix up connections (e.g., phases, ground, and neutral) during installation, as this can create a life-threatening situation.**
- **Ensure that the electrical supply matches the voltage and current specified on the product label for Next Gen.**
- **When connecting the Next Gen, refer to the wiring diagram in this manual and adhere to the locally applicable legal connection conditions**

(e.g., in the Netherlands: NEN1010).

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