

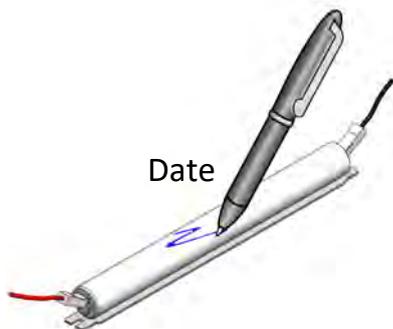
Emergency LED indicator & battery replacement

Logbook

NEN-EN 1838 & NEN-EN-IEC 60598-2-22



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Date

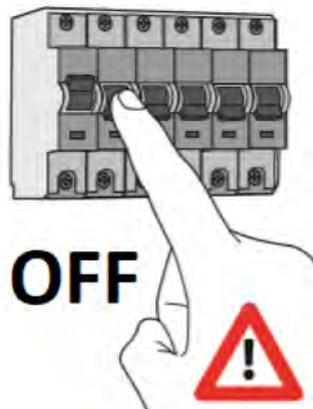
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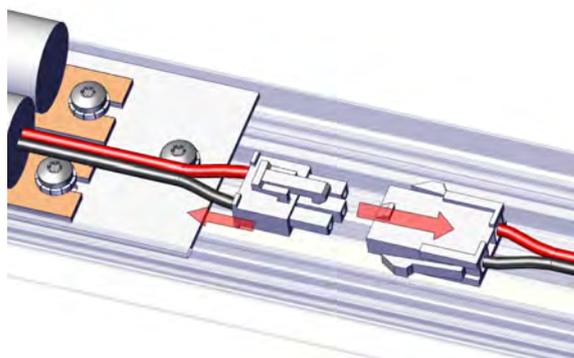
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LED color / flashing	Error condition	Cause	Solution
Green / no flashing		System OK, battery fully charged	
Off		Main off, EM mode, Rest mode, test in progress	
Green / slow (0,25s on, 1,25s off)		System OK, battery is charging	
Green / fast (0,25s on, 0,25s off)		System OK, recently tested (<5 days, Australia mode only)	
Red / no flashing	Battery voltage too high or too low	No battery connected	Connect battery
		Wrong or bad battery connected	Replace battery
		Battery pack replaced with different type	Reset driver
Red / slow (0,25s on, 1,25s off)	Failed test due to battery	Battery end of life	Replace battery and preform duration test
		Charger failure	Replace driver
Red / fast (0,25s on, 0,25s off)	Output voltage too high or to low	Wrong LED load connected	Connect right load and preform functional test
		Wrong connection	Connect right load and preform functional test
Red-Green / fast (0,25s on, 0,25s off)		Dali device identification	
Green / short (50ms on, 0,95s off)		Battery detection	

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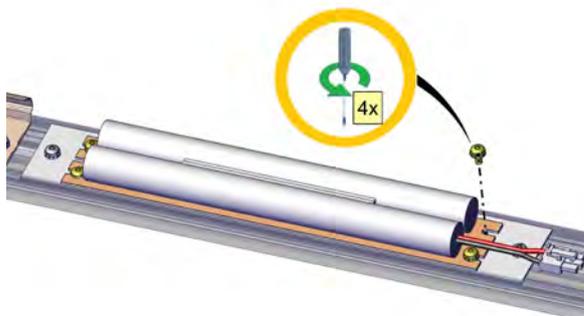
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1 Owner of the building/ luminaires (or acting party) is obliged to keep a logbook according to NEN-EN 1838 & NEN-EN-IEC 60598-2-22.

2 Before installing the emergency unit or replacing the battery, write the installation date onto the battery.

3 Example of emergency unit indication LED.

4 LED status indicator - table of contents.

5 Disconnect the mains before operating the linear lighting system.

6 Disconnect the battery from the emergency module.

7 Type and/or quantity of batteries may vary as well as the type of mounting plate.

8 Unscrew the battery from the mounting plate and replace. Re-tighten screws and reconnect the battery wires with the emergency module. Replace emergency unit as described in section 6 of this manual.

Note: for specific info on emergency systems see: section 11 of this manual.

Emergency lighting notes

Owner of the building / luminaires (or acting party instead) is obliged to keep a logbook according to NEN-EN 1838 & NEN-EN-IEC 60598-2-22 of their emergency installation. The logbook should state at least:

- Installation date of luminaires;
- Document regular inspection routines;
- Document replacements and / or maintenance;
- Logbook should be available for a minimum period of three years;
- Emergency fittings are foreseen with at minimum one continues power circuit (phase) connection. When installing emergency luminaire(s) make sure there is a continues power supply available and connected;
- After installation it should be avoided that there are any interruptions in this continues power supply.

In case of self-contained emergency:

- The emergency luminaire(s) can operate between +5 °C to +25 °C with a maximum humidity of 65 % ± 5 %;
- Before installing the emergency luminaire(s) write the installation date on the battery;
- The luminaire(s) must be installed within a period of 3 months after production of the luminaire(s);
- If the luminaire(s) is not connected within a period of 1 month, disconnect the battery from the luminaire;
- After full installation of all the emergency luminaire(s) a period of 48 hours is required to fully charge the batteries, afterwards document the functioning of all luminaire(s) for the building operator;
- Repeated power outages will reduce the lifespan of the batteries dramatically;
- The emergency luminaire(s) may be discharged max. 4 cycles per year plus 2 cycles during commissioning.

DALI

Each DALI emergency gear is individually addressable on its DALI bus and each gear can be commanded individually to carry out an emergency test. So rather than testing all the emergency luminaires in one zone together each emergency luminaire in the zone can be tested at a different time, therefore ensure the safety of the zone at all times.

If the emergency and normal drivers in a luminaire are both DALI gear, then each can be separately addressed on the same DALI bus. This allows common wiring to be used for both normal lighting control and emergency test control. During a failure of the permanent mains supply, the TrustSight driver acts autonomously to provide escape lighting, regardless of the state of the DALI bus.

The TrustSight DALI version is equipped with a self-test functionality according to IEC 62034. Automatic tests will be performed according to the duration test (every 52 weeks) and functional test (every 7 days) programmable interval times. DALI standard operating mode the duration test will be performed as long as the rated duration time (3 hours). The automatic duration test will always run until the battery is fully discharged. Full discharges are recommended for battery maintenance.

Conditions for self-test

The TrustSight driver must be permanently connected to mains power whenever a duration test or functionality test is executed and the battery must be charging or fully charged. When scheduling a duration or functionality test the operation of the AC-driver is also checked. When the AC-driver is powered up, the test can be postponed up to 3 days (in 24/7 lighting situations). When the AC-driver is off for at least 2 hours the test will be started.

Reset to factory default

In certain cases, it may be required that the TrustSight driver be reset to factory default settings.

This can be achieved in the following way:

1. Apply mains power and apply 12Vdc on battery input (apply at the same time or within 2s).
2. After 1s the LED indicator will start flashing fast RED for 2s (4 times).
3. Remove 12Vdc on battery input while the LED is flashing.
4. After 1s the LED indicator will light up continuously GREEN for 2s.
5. Disconnect main power.

The driver has now been reset to its factory default settings.

LED status indicator

The LED status indicator shows whether:

- The system is in charging mode;
- Batteries are fully charged;
- A system error had occurred, see also the overview table in section 2 of this manual.

Product specifications

- Ambient working range _____ -25 °C+35 °C (-13 °F - 95 ° F)
- Storage _____ -25 °C+35 °C (-13 °F - 95 ° F)
- Rated voltage range _____ 220 V~240 V~ 50/60 Hz
- Relative humidity _____ 10 %-85 % RH - not condensing
- Cable specification _____ 7&3 pin suitable for solid wiring (Ø1.5-2.5 mm2)

Important

- Caution, risk of electric shock!
- Hot plug-in is not an option and may cause damage to the luminaire.
- Disconnect the mains before installing or modifying this product.
- Installation and commissioning of the luminaire must be performed by a qualified electrician in accordance with all national and/or local regulations.
- Install all individual light lines before connecting to the grid.
- NEVER install this product without reading this installation guide.
- NEVER stare into this product when switched on.
- NEVER modify or alter this product, this will result in loss of warranty.
- Read the product labels carefully for all product details.
- This product is not suitable for signal functions, in case of emergency function see next paragraph.
- This product is not suitable for outdoor use.
- This product is not suitable for off-grid power solutions.
- On this product no condensation allowed during storage, operation and application.
- When operating the electrical connections and connecting to the mains or grid always work according to standard NEN 1010 and NEN 3140.

Note

- A Veko linear lighting system is considered as a single luminaire (a 'closed' system) and not an electrical installation at itself.
- The light source of this product is custom made and shall only be replaced by the manufacturer or his service agent.
- At end of life, the whole product needs to be replaced.
- This product is not intended for household usage.
- Take care with the usage of power cables and prevent damage to the cables when installing them.
- Avoid touching the product if active, it might cause harm due to heat
- When the product is unpacked, take care of placement. Do not let the product rest on top of the optics, damage to optics will result in light output loss.
- The manufacturer is not liable for damages resulting from improper or faulty installation or operation from unauthorized modifications to the luminaire.
- Specifications are subject to change without notice! If you have questions please contact the manufacturer.
- Take appropriate precautions: wear gloves.
When adjusting the length of the light lines between the walls, an expansion coefficient of 24×10^{-6} (2.4 mm per 100 m per °C) should be taken into account.
- Keep at least one copy of this document as future reference material.

Cleaning

- ALWAYS switch off the power to the product before cleaning.
- This product can be cleaned with a damp cloth.
- Choose cleaning materials which are suitable for plastic.
- Do not use coarse or rough cleaning tools on this product.
- Do not use bleach or solvents on this product.
- Do not use any type of high pressure equipment to clean this product.
- Do not submerge this product.