Operating Instructions

Explosion-proof Self-contained
LED-Emergency Light Fitting

Series e856… DIMDI

with NiMH-Emergency Battery

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The safety of people and equipment in hazardous areas depends on the observance of all safety standards. Exact knowledge about all applicable regulations and standards is mandatory for installation maintenance and repair of explosion proof equipment, especially

- the determinations of IEC/EN 60079-14 and IEC/EN 60079-17 for maintenance of explosion-proof appliances
- the generally accepted rules of the technical side
- the national rules for prevention of accidents and for safety standards
- the safety instructions of these operating instructions
- the characteristic data on the type plate and the instruction plates

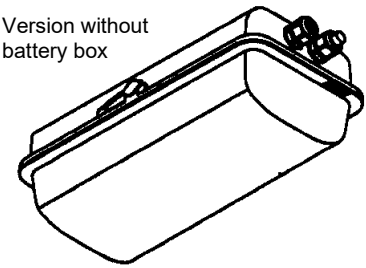
1. Safety Instructions

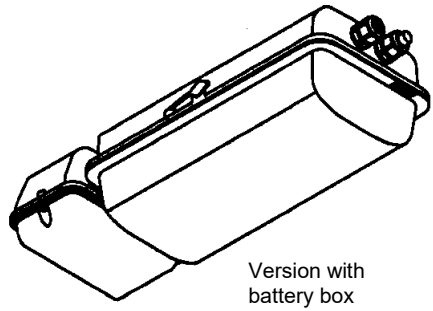
- The light fitting must be selected in accordance with the specified protection rating and installed in compliance with the installation regulations.
- The light fitting must be protected against overvoltage, overcurrent, short circuits and other electrical failures and must be maintained in accordance with the applicable regulations.
- The light fitting must be operated in an undamaged condition only.
- The light fitting may only be opened if it has been completely disconnected from the mains supply and the plug connector of the battery in the battery box is disconnected!
- The non-stationary use of the light fitting as well as any other inappropriate usage is prohibited.
- The operation of the light fitting is allowed within its assessment thresholds only.
- In regard to the minimum and maximum admissible ambient temperature potential sources of cold and heat (e.g. direct heat or solar radiation, cooling units) have to be considered.
- If the light fitting is subject to particular stresses - chemical, mechanical, thermal and electrical, as well as vibrations or moisture - prior consultation with Adolf Schuch GmbH is required.
- Every structural modification will cause dangerous situations and consequently the certification of this light fitting will be null and void. So it is not allowed to drill through the housing for installation purposes.
- **Caution - Risk of electrostatic discharge! Fitting to be cleaned with damp cloth only!**
- **In areas with risk of accidental electrostatic charge (e.g. by passing by) the light fitting must be protected by appropriate measures.**
- **The light fitting is not allowed to be installed in process areas where strong electrical fields may occur (i.e. HV Sparkling Electrodes or Particle Streams). Reason is to avoid any electrostatic charge of the light fitting itself.**
- Replace damaged parts by original spare parts from the Adolf Schuch GmbH only.
- LED-reflector with mounted LED-modules and Electronic control gear of this light fitting must be replaced by A. Schuch GmbH, by a service technician who is instructed from Schuch or by any other person with equivalent qualification only.
  It is not allowed to replace the individual LED-modules of this light fitting.

2. Operating Advice

- The light fitting must be protected from moisture and transported and stored within its permissible ambient temperature range (see section 3, Technical Data). Temperature fluctuations and vibrations must be avoided.
- Emergency light batteries must be stored in a protected, dry place and under the most constant ambient conditions possible. A temperature of +5°C ... +25°C and a relative humidity of up to max. 60% is recommended.
- Because of the chemical resistance use only a damp cloth for cleaning the light fitting. If necessary with a mild and solvent-free cleaning agent.
- Against penetration of humidity into the light fitting a special Ex breathing gland is often quite effective. It is allowed to use an Ex breathing gland which is released by the Adolf Schuch GmbH only. If using such a gland, its operating instructions must be taken into account, as well as the influence on the permissible ambient temperature and the Ingress protection of the light fitting.
- Any application of the light fitting that is incorrect or even forbidden will lead to the fact that the manufacturer's warranty is lost.
- The diffuser panels above the LED boards must not be removed.
- LED are sensitive electronic components. Please ensure that the LED are protected against mechanical and electrostatic attacks whenever the light fitting is open. For this reason the LED must not be touched either.
- Due to harmful gases and other corrosive substances (e.g. ammoniac, sulphur- or chlorine compounds) it may come to damages of the LEDs. Depending on the substance, the concentration, the temperature and the dwell time, damages up to total black-out are possible. This may occur also to fittings with high degree of protection. The suitability of the light fitting for the respective application can only be checked by running a test at site.
- Due to a high inrush current when switching on the light fitting, the number of light fittings which can be connected to a single fused circuit is limited (Possible number of light fittings per circuit breaker see Chapter 3, Technical Data).
- The terminal points of the connection terminal provided for the DALI connection are marked with "DA". Lines to these control inputs must be mains voltage proof.
- For the light fitting to function properly, it is absolutely necessary to connect it to a DALI emergency light monitoring / control device (DALI Device Type 1).
- LED modules are built up of a series connection, which itself is built up of parallel connections of single LEDs. Failures of LEDs do not necessarily lead to a change in the power consumption, which is recognized by the emergency light unit.

Version without battery box





Version with battery box

2.1 Use at high and low temperatures

The explosion protection of the light fitting is guaranteed between -30°C up to +55°C.
At temperatures below 0 °C, it must be taken into account that the emergency battery will take longer to charge and the operational life of the emergency lighting mode will be reduced. Testing the duration of the battery life in lower ambient temperatures can therefore lead to a misleading result.
The battery life test should be repeated manually at a more appropriate time (please refer to the section about operational life testing in Chapter 2.2).
A reduction of the lifetime of the emergency battery can be expected if the ambient temperature is permanent above +45°C.

2.2 Automatic test of the emergency light unit

The functionality of the light fitting and the operational life in emergency lighting mode is tested automatically by the emergency light unit at specified intervals. During the tests, the light fitting lights up and its signal LED shows a blinking green light.



➢ If the emergency light unit after its initial start-up is disconnected from the mains and the battery supply (complete interruption of the energy supply), the intervals between the automatic tests are extended by the duration of the interruption.

A complete interruption of the energy supply for the emergency light unit will also be given when the mains failure takes longer than the nominal operating time specified for the emergency light.

Functionality test
Functionality tests are carried out at 7 day intervals and last one minute.
The first Functionality test automatcally initiated by the emergency light unit is carried out one hour after the light fittings initial start-up.

Operational life test
During the operational life test, the emergency light unit checks whether the capacity of the emergency battery is sufficient for the indicated nominal operating time should the emergency light being required. For the operational life test to be carried out, the emergency battery must be fully charged and connected.

Automatic operational life tests:
Operational life tests automatically initiated by the emergency light unit are carried out at 52 week intervals. The first operational life test automatically initiated by the emergency light unit is carried out approx. 24 hours after the light fittings initial start-up.

Manual operational life tests:
DALI emergency light monitoring / control devices (DALI Device Type 1) enable the performance of operational life tests to be carried out at any time. The operating instructions for the DALI emergency light monitoring / control device must be observed.

2.3 Ascertainable faults and reset of the display

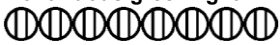
LED failure
If a fault in the LED is detected by the emergency light unit during a functionality test, the LEDs will be switched off and the fault will be indicated by a permanent red light on the signal LED.
An LED fault will be reset if a functionality test produces a positive result or if the emergency light unit is completely separated from the battery and power supply.

Battery failure
A battery failure is indicated if:
a) the electrical connection between the emergency light unit and the emergency battery is interrupted.
   The display of the error is reset as soon as the connection between the emergency light unit and the emergency battery is restored.

b) the capacity of the emergency battery is no longer sufficient to maintain the nominal operating time of the light fitting in the event of an emergency light.
An emergency battery that no longer has sufficient capacity must be replaced immediately (see Section 6.4).
The display of the error is reset by a successful operational life test or when the emergency light unit is completely disconnected from the mains and battery supply.

2.4 LED-Signals

The two-colored LED (red/green) which is integrated in the reflector of the light fitting does show the working condition and the error state of the fitting.
The following states are possible:

Continuous green light:

Permanent charging mode –
light fitting at mains operation,
the emergency battery is being charged

Blinking green light:

Functionality test or operational life test (check of the capacity of the battery)

Red flashlight:

Battery contact failure –
the battery is not connected to the emergency light unit

Blinking red light:

Insufficient capacity of the battery –
the battery must be replaced

Continuous red light:

LED failure

 means:
red light for ½ second, green light for ½ second and no light for ½ second

3. Technical Data

Series: e856. L .. / . / . DIMDI
- Index of luminous flux
- Nominal operating time in case of emergency
- Capacity of emergency battery

Explosion-proof LED Emergency Light Fitting for operating in hazardous areas of zones 1 and 21.

Explosion protection: Ⓔx II 2 G Ex db eb mb q IIC T4 Gb
Ⓔx II 2 D Ex tb IIIC T80 °C Db

Certification: IBExU17ATEX1132X
IECEx IBE 17.0037X

Rated voltage: 220…240 V AC; 50...60 Hz
Switching from mains to battery operation at approx. 180 V
Switching from battery to mains operation at approx. 195 V

Isolation class: I

Ingress protection: IP66 (When using an Ex breathing gland see Section 2)

Ambient temperatur: -30 °C ... +40 °C / +55 °C (see type plate)
0 °C … +40 °C / +50 °C (Nominal range according to EN 60598-2-22)
-30 °C … 0 °C (Emergency duration may be limited)

Energy efficiency class: This light fitting contains a light source of the energy efficiency class: C

Power consumption: The power consumption of the LED is dependent on production fluctuations as well as on the service temperature.
This is why just reference values can be given as follows:

e856. L05 / . / . : 6 W
e856. L10 / . / . : 11 W
e856. L20 / . / . : 19 W

Possible number of light fittings per circuit breaker*:

Type	B 10 A	B 16 A	C 10 A	C 16 A
e856. L ..	11	19	19	32

*) Typical values; possible deviations depending on make, cable impedance and temperature

Cable entry: Bore: 25 mm -0/+0,5; Wall thickness: 5,5 mm
If supplied: Ex cable gland with thread size M25 x 1.5
Sealing range: 8 - 17 mm (for 10 - 17 mm remove the small sealing ring)
Torques: Connection thread 3 Nm; Pressing screw 2 Nm
Torque of Ex locking screw: 5 Nm

If other cable glands are used, their operating instructions must be observed!

Connection per terminal: Ampacity: 16 A max. (At maximum current load, a cross section of 2.5 mm² is required)

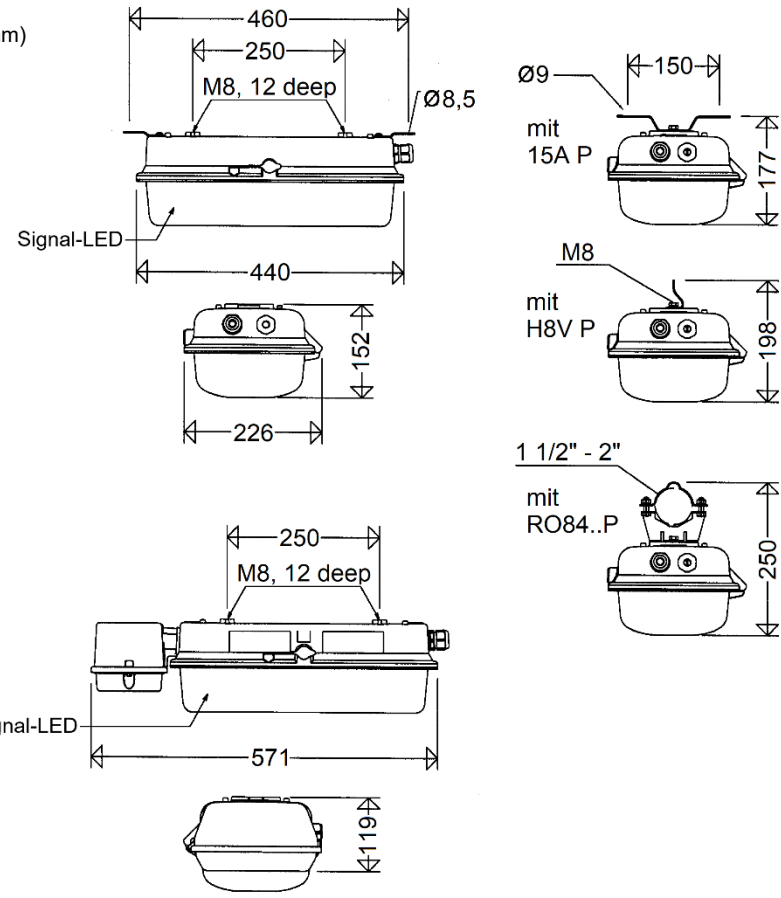
Clamping range: 2 x 1 - 4 mm² max.
Required stripping length: 10 - 11 mm

For special versions, the information on the enclosed information sheet must be observed!

Locking: central; actuated by a 13 mm Hexagon socket key (ext. Ø: 18 mm max.)

Operation position: in any direction - except upwards light output

Dimensions:
(all measures in mm)



Rated luminous flux: e856. L05/1/1,6: ca. 100%
e856. L05/3/2,5: ca. 55%

e856. L10/1/1,6: ca. 50%
e856. L10/3/2,5: ca. 25%

e856. L20/1/1,6: ca. 25%
e856. L20/3/2,5: ca. 13%

Spare battery: Type 8022, 6 V, 2,2 Ah, NiMH;
1 hour emergency light time (standard version), special version see type plate;
Art.-Nr. 90222 9035

4. Installation



- The safety of this light fitting is only guaranteed as long as it is operated within its assessment threshold. Installation and maintenance must be done in accordance with the respective regulations!
- The installation of explosion-proof light fittings must be done by Ex-skilled electricians only!
- In regard to the minimum and maximum admissible ambient temperature potential sources of cold and heat (e.g. direct heat or solar radiation, cooling units) have to be considered!
- The application of this light fitting in an explosive dust atmosphere is depending on the properties of the surrounding dust. Please ensure that there will be an adequate difference between the maximum surface temperature of the fitting and the glowing and the ignition temperature of the respective dust!
- If there is a risk of accidental electrostatic charge the light fitting must be protected by appropriate measures!
- The light fitting must be mounted in the instructed operation position (see Chapter 3, Technical Data)!

4.1 How to open the light fitting

- Turn the hexagon socket at the locking side of the light fitting in direction of the arrow ”Open”
- Open the diffuser

4.2 Electrical connection

- Turn the wing nuts of the reflector by 90° so that the reflector can be removed from the housing.
- Screw the Ex cable glands and Ex locking screw supplied with the fitting into the borings of the housing by using the lock nuts (Torques see Chapter 3, Technical Data).
- After mounting the light fitting housing insert the connection cable through the Ex cable gland. An inlaid dust protective disc, if existing, must be removed before.
- Fasten the pressing screw of the Ex cable gland (Torque see Chapter 3, Technical Data).



- Outside the light fitting appropriate measures (e.g. pull relief clips) must be taken to protect the connection cable from twist and it must be ensured that no tensile forces react on the wiring and the Ex cable gland!
- The diameter of the connection cable must correspond to the sealing range of the Ex cable gland (see Chapter 3, Technical Data)!
- Ex cable glands that are not used for cable entry must be closed with the enclosed closure plug! An inlaid dust protective disc, if existing, must be removed before.
- The conductors must not be damaged when skinning resp. stripping the cable!
- When stripping the cable special attention needs to be paid to the correct length of the conductor end sections (see Chapter 3, Technical Data)!

- Connect the conductors of the connection cable to the right terminals as per marking.

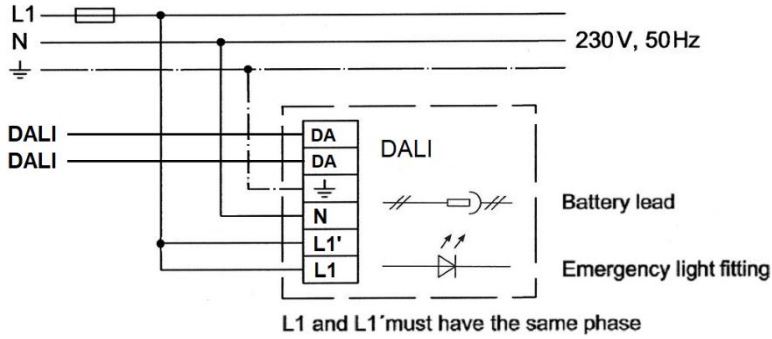


- It is important to ensure that the bare conductor is fully inserted into the terminal and that no cable insulation is clamped!

- Put the reflector into the housing and position it correctly. Then lock it by use of the wing nuts.

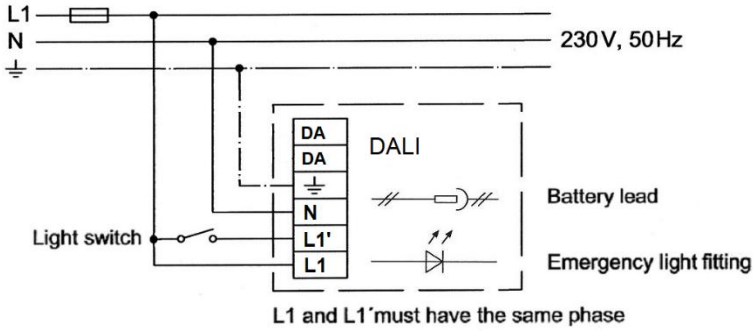
Modes of operation

Wiring for DALI control



Please note that DALI operation of the light fitting requires a conductive connection between L1 and L1'!
If two connecting cables are inserted into the light fitting (Looping the cable), the live conductors of the connecting cables must be connected to L1 and L1'.

Wiring without DALI control



Non-maintained operation:
The light fitting switches on automatically in case of a mains failure.
The direct phase (L1) will be connected to connecting point L1 as mains supply monitor. Connecting point L1' will not be connected.

Maintained operation:
The light fitting switches on automatically and it may be used as a standard light fitting if mains voltage is on.
The same direct phase (L1) will be connected to connecting point L1 as mains supply monitor and to connecting point L1' as switched phase.

Connecting an emergency battery

In its delivery state, there is no electrical connection between the emergency battery and the emergency light unit.



- The electrical connection between the battery and the unit can only be established or broken in a non-explosive atmosphere!
- If no power supply is present, even if the light fitting is connected to the emergency battery, it will not enter emergency lighting mode!

The electrical connection between the emergency battery and emergency light unit should be established as follows:

Version without battery box:

- Remove the protective cap from the connector of the battery cable.
- Attach the connector of the battery cable to the socket in the battery box. Check the catch mechanism of the plug connection.

Version with battery box:

- Open the battery box by loosening the locking screws and flip open the lid.
- Remove the protective cap from the connector of the battery cable.
- Attach the connector of the battery cable to the socket in the battery box. Check the catch mechanism of the plug connection.
- Close the lid of the battery box and tighten the locking screws.

4.3 How to close the light fitting

- put the diffuser into the hinges and push it into the housing.
- Turn the hexagon socket at the locking side of the light fitting in direction of the arrow ”Close”.
- After closing the light fitting take care that the whole gasket is effective.

5. Commissioning

If a power supply is present, the battery connected to the emergency light unit will be charged. The signal LED will indicate this state by means of a steady green light.

➤ After the initial setup, the emergency battery must be charged for 12 hours. From a physical point of view, the full capacity of the battery is only available after 3 or 4 charge-discharge cycles.

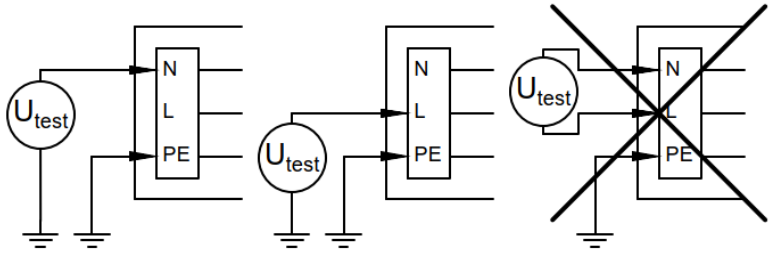
If a battery contact failure is indicated despite an existing connection to a power supply and to the emergency battery, the emergency battery may be the cause, which might contain insufficient charge to be charged in the potentially explosive atmosphere.
In this case, the emergency battery is to be removed as described in Section 6.4 and to be charged separately from the light fitting. A charging voltage of 6 V and a charging current of 80 mA must not be exceeded. Under these conditions is a discharged emergency battery sufficiently charged within just 5 minutes for it to be reinserted into the light fitting, where it can continue to charge.

Before commissioning this explosion-proof lighting fitting please check and ensure that:

- the light fitting has been installed according to the regulations and in the allowed operating position.
- the Ex cable glands resp. Ex locking screws are securely fixed in the housing (Torques see Chapter 3, Technical Data).
- the pressing screw of every Ex cable gland is tightened with the required torque (Torques see Chapter 3, Technical Data).
- the connection cable has been firmly installed and is not subject to any tension whatsoever.
- the bare conductor is fully inserted into the terminal and that no cable insulation is clamped.
- the light fitting is closed correctly.
- all gaskets are effective.
- the light fitting is not damaged whatsoever.

5.1 Isolation measurement

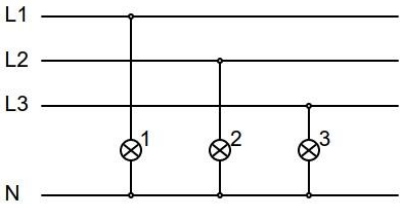
For measuring the isolating resistance the test voltage must be put on between the outer conductor and the
earth conductor or between the neutral conductor and the earth conductor only.



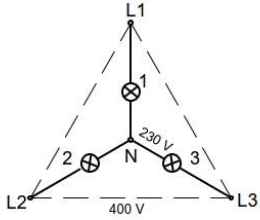
After finishing the isolation test the conductor between the mains and the light fitting must be reconnected safely. Before starting operation the connection of the neutral conductor must be safe for avoiding any damage whatsoever of the electronic control gear caused by any inadmissible excess-voltage in case of an unbalanced mains load. (see Chapter 5.2)

5.2 Emergency light unit in 3-phase-operation

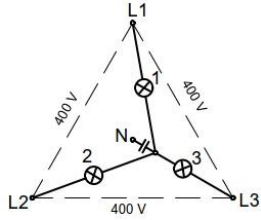
The diagram shows the wiring for light fittings or light fitting groups in 3-phase circuits and with a common neutral conductor N.



Light fittings with emergency light unit



OK



fault

If the common neutral conductor is interrupted and voltage is present, then light fittings or groups of light fittings may be exposed to unacceptably high voltages and consequently the emergency light unit may be destroyed.

6. Maintenance

6.1 Repair- and maintenance works



- Before opening the light fitting it must be disconnected from the mains supply completely and in the case of versions with a battery box, also the plug connection of the battery in the battery box must be disconnected.
- For applications in dusty atmospheres the light fitting must be cleaned before opening!
- Ensure that no dust can get into the light fitting when it is open!
- Replace damaged parts by original spare parts from the Adolf Schuch GmbH only!
- Demounting and transporting the emergency control unit q9636 is allowed in a non hazardous atmosphere only!

Spare Parts:
Due to the rapid development of LED technology, LED components quickly become obsolete and are no longer available. In order to be able to determine and offer suitable components nevertheless, in addition to the complete type designation the serial number of the light fitting must be stated when enquiring about spare parts. The serial number is printed on the type plate of the light fitting – on the bottom left.

6.2 Cleaning the light fitting



- Danger of ignition due to electrostatic charging at the plastic parts of the light fitting! For cleaning the housing and cover outside and inside and for cleaning internal plastic components use only cold or lukewarm water (if necessary with a mild cleaning agent) together with a viscose sponge or a soft fibrous-free cloth!

Pay attention to the following in case of application of this light fitting in dusty atmospheres:
Dust deposits show heat-insulating properties and thus reduce the service life of the light fitting. It is necessary to clean the fitting from dust regularly. In case the dust layer may be higher than 5 mm it must be ensured that the surface temperature of the light fitting does not exceed the maximum permissible surface temperature of the specific dust considering the thickness of the dust layer. The dust layer must not exceed 50 mm at any time.

6.3 Regular maintenance work



- Follow the instructions of section 6.1!

Explosion-proof light fittings need regular maintenance according to the national rules of the country they are installed. Especially components which are important for the Explosion Category have to be carefully checked. Therefore it must to be checked very carefully:

- diffuser, housing and gaskets for any kind of damages
- the correct installation and tightness of Ex cable glands and Ex locking screws (Torques see Chapter 3, Technical Data).
- all parts of plastic inside the light fitting to attend to colour change, deformation and damaging.
- the tight fit of the conductor and the condition of the cable insulation.
- that the light fitting is closed correctly and the gasket is effective.

The maintenance of the fitting as an emergency light fitting has to be done following the actual international and national regulations.

6.4 How to replace the emergency battery



- ➤ Follow the instructions of section 6.1!
- ➤ Only original batteries as per the type plate on the battery must be used for replacing the battery (see Chapter 3, Technical Data)!

Version without battery box:

- open the light fitting as described in section 4.1.
- turn the wing nuts of the reflector by 90° so that the reflector can be removed from the housing.
- push the detent at the connection assembly and unplug the battery conductor plug from the battery socket.
- put the protective cap back onto the battery conductor plug.
- loosen the screws of the battery fixing bracket, but do not remove them completely.
- push the battery fixing bracket to release the battery.
- remove battery.
- put new battery back into the fitting.
- secure battery with battery fixing bracket and fasten screws. Make sure that the battery is securely fixed.
- remove protective cap from battery conductor plug.
- insert battery conductor plug into the socket in the light fitting housing. Make sure that the plug is locked in place to avoid an accidental separation of the plug connection.
- Put the reflector into the housing and lock it into position by use of the wing nuts.
- close the light fitting as described in section 4.4.
- Alert the emergency light unit to the presence of a new battery:
  Open and close the light fitting twice within a 60-second period. Opening and closing must occur within 10 seconds of each other. During this time the emergency light unit must be supplied by the mains supply.
  If this procedure is done correctly, immediately after the light fitting is closed for the second time, the signal LED will display an acknowledgement light. The five-second long red-green acknowledgement light confirms that a operational life test will be conducted 12 hours later.

Version with battery box:

- Loosen the locking screws of the battery box.
- The emergency battery is located in the lid of the battery box. Take care when opening it.
- Press down the catch on the plug connection and pull the connector of the battery cable out of the socket.
- Insert the protective cap hanging on the connector of the battery cable into the battery connector.
- Loosen but do not fully unscrew the locking screws of the battery fixing bracket.
- Slide the fixing bracket in the keyhole towards the hinge until the battery is released.
- Remove the emergency battery from the lid.
- Insert a new emergency battery into the lid.
- Return the battery fixing bracket to the original position and screw down. Check that the battery is positioned securely.
- Remove the protective cap of the battery connector.
- Attach the battery connector to the socket in the battery box. Check the catch mechanism of the plug connection.

– Alert the emergency light unit to the presence of a new battery:
  Open and close the lid of the battery box twice within a 60-second period. Opening and closing the case must occur within 10 seconds of each other.
  If this procedure is done correctly, immediately after the battery box is closed for the second time, the signal LED will display an acknowledgement light. The five-second long red-green acknowledgement light confirms that a operational life test will be conducted 12 hours later.
– Close the lid of the battery box with the screw plug.

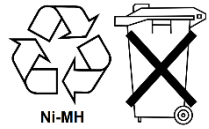
Should a battery capacity fault be present when the acknowledgement light is displayed, more operational life tests will then be carried out at 52 week intervals. If no fault was detected in the battery capacity, the interval until the next regular operational life test is unaffected.

6.5 Replacing emergency light unit and LED-reflector

Replacement of the emergency light unit and LED-reflector with mounted LED-modules has been described in the separate instructions which can be found attached to the spare parts to be supplied.

6.6 Environmental advice

This device has got an accumulator which contains ecologically dangerous materials. There is a particular designation for this purpose.
The people operating this device are obliged by law to return accumulators which have become waste and which contain any pollutant materials to organizations which are in the hands of the vendors or waste disposal holders being under public law.



6.7 Placing the fitting out of operation

To place the light fitting out of operation the battery must be separated from the emergency light unit. In order to avoid unnecessarily removing the emergency battery, disconnection should take place immediately after the interruption of the power supply.

During storage there will also be a gradual discharge of the battery. If the voltage drops below a certain level the battery will no longer be detected by the emergency light unit. Thus a battery contact failure will be indicated although the connection to the battery still exists. In this case, the emergency battery is to be removed as described in Section 6.3 and to be charged separately from the light fitting. A charging voltage of 6 V and a charging current of 80 mA must not be exceeded. Under these conditions is a discharged emergency battery sufficiently charged within just 5 minutes for it to be reinserted into the light fitting, where it can continue to charge.



➤ To avoid any damages the battery should not be stored for more than 6 months without being re-charged periodically!

EU-Konformitätserklärung
EU-Declaration of Conformity
Déclaration UE de Conformité

SCHUCH

Bezeichnung des Betriebsmittels Name of product Nom du produit	**e 856/.../.**
Beschreibung des Betriebsmittels Description of product Description du produit	**Explosionsgeschützte Leuchte** Explosion-proof luminaire Luminaire antidéflagrant
EG/EU-Baumusterprüfbescheinigung EC/EU type examination certificate Attestation d'examen CE/UE de type	**IBExU 17 ATEX 1132X** IBExU - Institut für Sicherheitstechnik GmbH (0637) Fuchsmühlenweg 7, D-09599 Freiberg
Relevante EU-Richtlinie Relevant EU directive Directive UE importante	**2014/34/EU ATEX-Richtlinie (ABL L 96 29.03.2014 S. 309)** 2014/34/EU ATEX Directive (OJ L 96 29.03.2014 S. 309) 2014/34/UE Directive ATEX (JOUE L 96 29.03.2014 S. 309)
Angewandte Normen Applied standards Normes appliquées	**EN IEC 60079-0:2018/AC:2020, EN 60079-1:2014,** **EN 60079-5:2015, EN IEC 60079-7:2015+A1:2018,** **EN 60079-18:2015, EN IEC 60079-31:2024** **EN IEC 60598-1:2021, EN IEC 60598-2-1:2021,** **EN IEC 60598-2-22:2022**
Relevante EU-Richtlinie Relevant EU directive Directive UE importante	**2014/30/EU EMV-Richtlinie (ABL L 96 29.03.2014 S. 79)** 2014/30/EU Electromagnetic compatibility (OJ L 96 29.03.2014 S. 79) 2014/30/UE Compatibilité électromagnétique (JOUE L 96 29.03.2014 S. 79)
Angewandte Normen Applied standards Normes appliquées	**EN IEC 55015:2019+A11:2020, EN IEC 61000-3-2:2019+A1:2021,** **EN 61000-3-3:2013+A1:2019+A2:2021+A2:2021/AC:2022,** **EN 61547:2009**
Relevante EU-Richtlinie Relevant EU directive Directive UE importante	**2011/65/EU RoHS-Richtlinie (ABL L 174 01.07.2011 S. 88)** 2011/65/EU RoHS-Directive (OJ L 174 01.07.2011 S. 88) 2011/65/UE Directive RoHS (JOUE L 174 01.07.2011 S. 88)
Angewandte Normen Applied standards Normes appliquées	**EN IEC 63000:2018**

Hiermit erklären wir in alleiniger Verantwortung, dass das oben aufgeführte Produkt mit den Anforderungen der angegebenen Richtlinien und Normen übereinstimmt.
We hereby declare in our sole responsibility that the product above complies with the requirements of the specified directives and standards.
Nous déclarons de notre seule responsabilité que le produit mentionné ci-dessus est conforme aux exigences des directives et des normes indiquées.

Adolf Schuch GmbH - Mainzer Str. 172, 67547 Worms, GERMANY

Worms, 26.03.2026
Ort und Datum
Place and date
Lieu et date

Nicolai Wolf
Geschäftsführer
Managing director
le directeur

IBExU 17 ATEX 1132X-06/SB-01

The test certificates are ready to be loaded down from our homepage - www.schuch.de - or we shall send it on request.