

Schréder INDU EMERGENCY PACK

Supplementary Installation Instructions















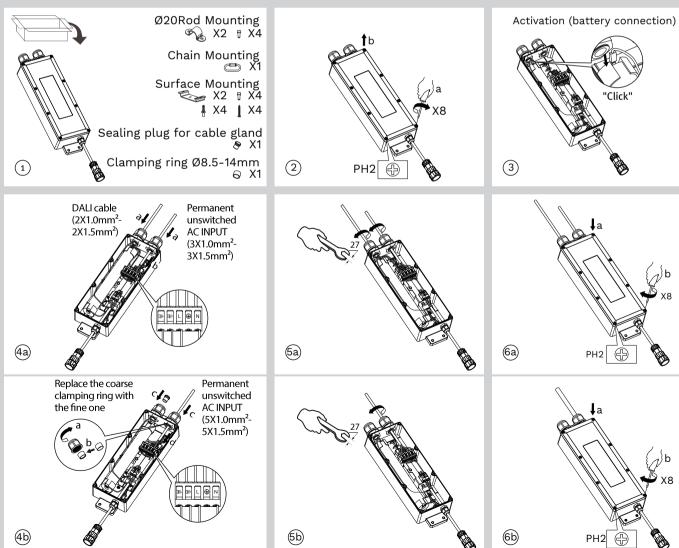


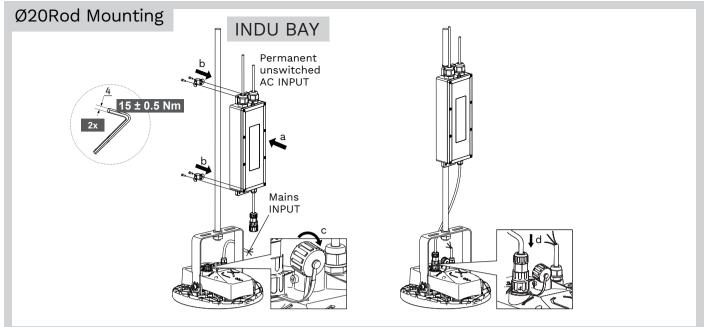


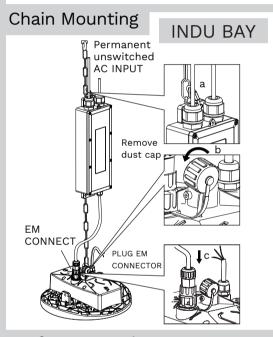


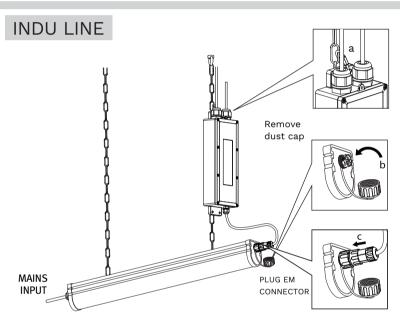
- 1. Batteries should be stored within the specified temperature range in low humidity conditions. Optimal storage conditions are: Temperature: +10°C to +30°C Humidity: 45% 85%
- 2. Avoid atmosphere with corrosive gas.
- 3. It is recommended to disconnect the battery before storage or delivery.
- 4. Battery should be charged once in three months in order to keeping it in initial performance.
- 5. This product should be installed by a full certified electrician in accordance with local building and electrial codes.

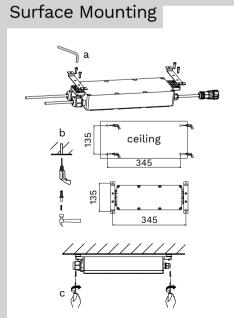
| Emergency power | 3.5 W | Operating voltage | 220~240 V AC 50/60 Hz | |
|-----------------|--------|---------------------|-----------------------|--|
| Emergency time | 180min | Working temperature | 0°C ~ +50°C | |
| IP rating | IP66 | Battery capacity | 4000 mAh | |

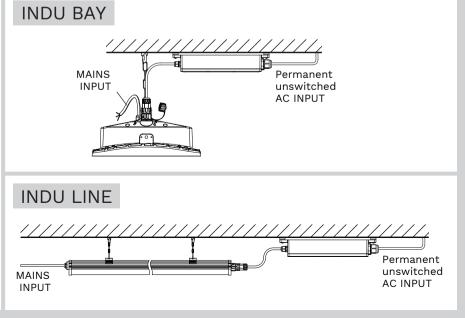












Important information

- 1. Use only with LED modules.
- 2. The INDU EMERGENCY PACK with emergency does not relies upon the luminaire enclosure for protection against accidental contact with live parts.
- 3. PE must be always connected.
- 4. Use only from battery supply.
- 5. Do not use in high-risk task area.
- 6. According to tests results (clause 22.3 of IEC 61347-2-7:2011 / AMD1:2017), the charging device recharges the battery properly.
- 7. Operates only in case of failure of mains supply.
- 8. Protected against reverse polarity events.
- 9. Reinforced insulation is installed between primer (in) and secunder (out) electrical circuits. Basic insulation is installed between L/N input and DALI input circuits. Supplementary insulation is installed between DALI input and the secunder (output) circuit.

10. Battery operating temperature: 0-60°C

| Battery model | maximum charge current (A) | minimum charge current (A) | charge voltage limits (V) | maximum discharge current (A) | minimum discharge current (A) | discharge voltage limits (V) | discharge Cut-off voltage (V) |
|------------------|-------------------------------------|-------------------------------------|------------------------------------|--|--|---------------------------------------|--|
| 89800085 | 2,0 | 0,03 | 4,0-6,0 | 3,0 | 0,03 | 4,0-6,0 | 4,0 |

Battery life: > 4 years

Installation and testing information

DALI Control

A DALI command from a suitable control unit can be used to initiate function and duration tests at individually selected times. Status flags are set for report back and data logging of results. When a DALI bus has not been connected or when a DALI bus is connected but the DALI default DELAY and INTERVAL times have not been re-set by sending appropriate DALI commands, then the EM converterLED PRO will conduct self-tests in accordance with the default times set within the EEPROM. These default times are factory pre-set, in accordance with the DALI stan-dard EN 62386-202, to conduct an automatic function test every 7 days and a duration test every 52 weeks. Since the DELAY time is factory pre-set to Zero, all units are tested at the same time. Test times can be changed with a command over the DALI bus. The DELAY and INTERVAL time values must be re-set when the emergency system test times are to be scheduled by a DALI control and monitoring system. Note that once the default values have been set to Zero, tests will only be conducted following a command from the control system. If the DALI bus is disconnected the EM converterLED PRO does not revert to self-testing mode.

Note: If the battery is connected the DALI communication is only possible after power reset.

Addressing

The EM converterLED PRO includes the EZ easy addressing system which allows addressing and identification by using the bi-colour LED in conjunc-tion with the EM PRO addressing tool. Binary address codes given by the LED can be simply converted to the DALI addresses 0 to 63. For single han-ded addressing using this method it is necessary to send a broadcast ident command every 3 to 9 seconds. During this command the LEDs will be swit-ched off and the indication LED will flash the 6 bit binary address preceded by a 3 second start indication period.

Commissioning

After installation of the luminaire and initial connection of the mains supply and battery supply to the EM converterLED PRO the unit will commence charging the batteries for 20 hours (initial charge). Afterwards the module will conduct a commissioning test for the full duration. The 20 hours rechar-ge occurs also if a new battery is connected or the module exits the rest mode condition. The following automatic commissioning duration test is only performed when a battery is replaced and fully charged (after 20 hrs) and the interval time is not set to zero, otherwise the system is expected to per-form the testing.

Functional test

The time of day and frequency of the 5 seconds function test can be set by the DALI controller. The default setting is a 5 seconds test on a weekly basis.

Duration test

The time of day and frequency of the duration test can be set by the DALI controller. The default setting is a duration test conducted every 52 weeks.

For 2 h operation:

The first commissioning duration test has a time of 120 minutes, subse-quent through life tests are conducted for 90 minutes. When the battery is changed or disconnected and re-connected the unit will next conduct a 120 minute test.

Prolong time

Prolong time can be set by the DALI controller. This is the delay time bet-ween return of the mains supply and the end of the emergency operation. The default prolong time is set as 0 minutes as specified within the DALI standard. Indicator LED will stay off for the duration of the prolong time.

Rest Mode / Inhibit Mode

Emergency operation is automatically started when the mains supply is switched off. If the Rest Mode is activated, the discharging of the battery will be minimized by switching off the LED output. If the Inhibit Mode has been activated before the mains supply is switched off, Rest Mode will be automa-tically switched on if the mains supply is switched off within 15 minutes. Rest Mode and Inhibit Mode can be initiated by the DALI controller. The REST command has to be sent after the mains supply has been discon-nected and whilst the EM converterLED PRO is in emergency operation. The INHIBIT command has to be sent while the EM converterLED PRO is supplied by mains. After a mains reset the EM converterLED PRO exits the Rest Mode. Rest Mode and Inhibit Mode can both be disabled by sending the RE-LIGHT/RESET INHIBIT command.

| LED indication | Status | Comment | | |
|--------------------------------|------------------|--|--|--|
| Permanent green | System OK | AC mode | | |
| Fast flashing green | Function test | | | |
| (0,1 sec on - 0,1 sec off) | underway | | | |
| Slow flashing green | Duration test | | | |
| (1 sec on – 1 sec off) | underway | | | |
| Red LED on | Load failure | Open circuit / Short circuit / LED failure | | |
| Slow flashing red | Datter of dilune | Battery failed the duration test or function | | |
| (1 sec on – 1 sec off) | Battery failure | test / Battery is defect or deep discharged/ | | |
| (Tsec on - Tsec oil) | | Incorrect battery voltage | | |
| Fast flashing red | Charging failure | Incorrect charging current | | |
| (0,1 sec on - 0,1 sec off) | | | | |
| Double pulsing green | Inhibit mode | Switching into inhibit mode via controller | | |
| Binary transmission of address | Address | During address identification and | | |
| via green/red LED | identification | During address identification mode | | |
| Green and red off | DC mode | Battery operation (emergency mode) | | |

