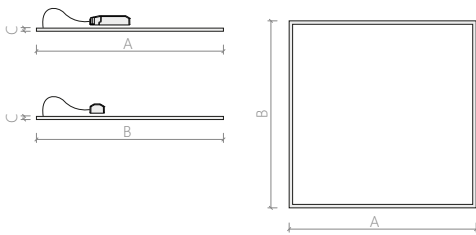


made in Italy



	A	B	C	KG
1805	595	595	10	2,7

NOTE DI SICUREZZA GENERALE

- Il montaggio e la manutenzione possono essere eseguiti soltanto da personale con competenze specifiche.
- Prima di procedere al montaggio, verificare che la rete non sia messa in tensione.
- Seguire le istruzioni per garantire un funzionamento corretto e sicuro.
- Utilizzare solo pezzi di ricambio originali per eventuali riparazioni o manutenzioni.
- Utilizzare esclusivamente le fonti di luce idonee come indicato.
- Non tirare il cavo di alimentazione o sollevare l'apparecchio dal cavo in questione.
- Il produttore non garantisce per danni derivanti dal montaggio e/o utilizzo improprio.
- Per eventuali problemi contattare il fornitore.
- Il produttore non riconoscerà la garanzia se si dovesse riscontrare che l'apparecchio è stato modificato.
- L'installazione dei prodotti deve essere eseguita a regola d'arte.

ATTENZIONE!

Non aprire l'apparecchio o modificare le sue caratteristiche.

La sorgente di illuminazione a LED contenuta in questo apparecchio di illuminazione deve essere sostituita solo dal costruttore.

GENERAL SAFETY NOTES

- Only competent persons are allowed to perform mounting and maintenance.
- Before installation make sure that there is no voltage in the network.
- Please follow the instruction supplied with the product to ensure proper and safe operation.
- Use only original parts for repairs or maintenance.
- Use only suitable light sources indicated on the label.
- Do not pull the power cord or lift the lamp by the wiring cable.
- Manufacturer does not guarantee for damage caused by incorrect installation and/or use.
- If you have any problems contact your supplier.
- The manufacturer does not recognize guarantee if you should find that the device has been modified.
- The installation of the products must be performed in a workmanlike manner.

ATTENTION!

Do not open or modify this fixture. The LED bulb in this luminaire can be replaced exclusively by the Manufacturer.

NOTES GÉNÉRALES DE SÉCURITÉ

- L'assemblage et la maintenance ne peuvent être effectués que par du personnel

espèces spécifiques.

- Avant de procéder à l'assemblage, vérifiez que le réseau n'est pas tendu.
- Suivez les instructions pour assurer un fonctionnement correct et sûr.
- N'utilisez que des pièces de rechange d'origine pour les réparations ou la maintenance.
- Utilisez uniquement des sources de lumière appropriées, comme indiqué.
- Ne tirez pas sur le cordon d'alimentation et ne soulevez pas l'appareil du cordon en question.
- Le fabricant ne garantit pas les dommages résultant de l'assemblage et / ou d'une mauvaise utilisation.
- Pour tout problème, contactez le fournisseur.
- Le fabricant ne reconnaîtra pas la garantie s'il a été constaté que l'appareil était changé.
- L'installation des produits doit être effectuée de manière professionnelle.

ATTENTION!

N'ouvrez pas l'appareil et ne changez pas ses caractéristiques. La source lumineuse LED contenue dans ce luminaire ne doit être remplacée que par le fabricant.

ALLGEMEINE SICHERHEITSHINWEISE

- Montage und Wartung dürfen nur von Personal mit bestimmte Arten.
- Bevor Sie mit der Montage fortfahren, vergewissern Sie sich, dass das Netzwerk nicht gespannt ist.
- Folgen Sie den Anweisungen, um eine Funktion zu gewährleisten richtig und sicher.
- Verwenden Sie für Reparaturen oder Wartungsarbeiten nur Originalersatzteile.
- Verwenden Sie nur geeignete Lichtquellen wie angegeben.
- Ziehen Sie nicht am Netzkabel und heben Sie das Gerät nicht vom betreffenden Kabel ab.
- Der Hersteller übernimmt keine Garantie für entstandene Schäden aus Montage und / oder unsachgemäßer Verwendung.
- Bei Problemen kontaktieren Sie den Lieferanten.
- Der Hersteller erkennt die Garantie nicht an, wenn das Gerät festgestellt wurde geändert.
- Die Installation von Produkten muss fachgerecht durchgeführt werden.

ACHTUNG!

Öffnen Sie das Gerät nicht und ändern Sie seine Funktionen nicht. Die in dieser Leuchte enthaltene LED-Lichtquelle darf nur vom Hersteller ersetzt werden.

داعماً

- التركيب والصيانة لا يمكن أن يتم إلا من قبل شخص مؤهل أو من قبل الشركة المصنعة.

- تدعم تاماريل عت من قبل الشركة المصنعة. لا يمكن أن يتم تركيب أو صيانة المنتج إلا من قبل شخص مؤهل أو من قبل الشركة المصنعة.
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La direttiva europea 2002/95 / CE sur le traitement des déchets d'équipements électriques et électroniques (RAEE) fournit ce qui suit:

- L'équipement d'éclairage ne doit pas être traité comme un déchet urbain normal.
- Les appareils d'éclairage mis au rebut doivent être livrés aux sites d'enfouissement expressément autorisés ou retournés au distributeur lors de l'achat d'un nouvel appareil.
- Les lampes, si elles sont éliminées avec l'appareil, ne doivent pas être écrasées car elles contiennent des substances hautement polluantes pour l'environnement.
- Le symbole de la poubelle barrée est indiqué sur les produits pour vous rappeler les obligations de collecte séparée.
- L'élimination illégale de ces déchets est punissable par la loi.

Die Europäische Richtlinie 2002/95 / CE zur Behandlung von Elektro- und Elektronik-Altgeräten (RAEE) bietet Folgendes:

- Beleuchtungseinrichtungen dürfen nicht als normaler städtischer Abfall behandelt werden.
- Ausrangierte Leuchten müssen auf Deponien geliefert werden, die ausdrücklich autorisiert sind oder beim Kauf eines neuen Geräts an den Händler zurückgegeben werden.
- Wenn Lampen zusammen mit dem Gerät entsorgt werden, dürfen sie nicht zerkleinert werden, da sie stark umweltbelastende Stoffe enthalten.
- Das Symbol der durchgestrichenen Mülltonne wird auf den Produkten angezeigt, um Sie an separate Sammelverpflichtungen zu erinnern.
- Die illegale Entsorgung solcher Abfälle ist strafbar.

La Direttiva Europea 2002/95/CE sul trattamento dei rifiuti di apparecchi elettrici ed elettronici (RAEE) dispone quanto segue:

- Gli apparecchi di illuminazione non devono essere trattati come normali rifiuti urbani.
- Gli apparecchi illuminanti dismessi devono essere consegnati alle discariche espressamente autorizzate o riconsegnate al distributore all'atto dell'acquisto di un nuovo apparecchio.
- Le lampade, se smaltite con l'apparecchio, non devono essere frantumate in quanto contenenti sostanze altamente inquinanti per l'ambiente.
- Il simbolo del bidone barrato è riportato sui prodotti per ricordare gli obblighi di raccolta separata.
- Lo smaltimento abusivo dei detti rifiuti è punito dalla legge.

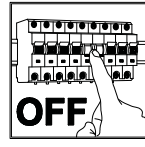
Pursuant to the EU Directive 2002/95/CE on waste electrical and electronic equipment (WEEE) the following shall apply:

- Lighting fittings are not to be treated as urban waste.
- Discarded lighting fittings are to be delivered to authorised waste disposal facilities or return to the distributor when a new equipment of the same time is purchased.
- Fixtures that are disposed of must not be disassembled or crushed as they contain highly polluting substances.
- The crossed-out bin mark is applied to remind users that the device must be disposed of according to applicable legislation.
- Unauthorised disposal of waste is an offence and will result in the penalties prescribed by the law.

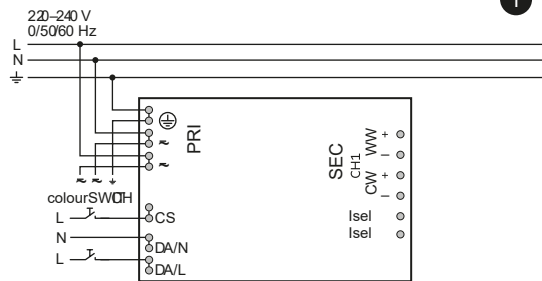
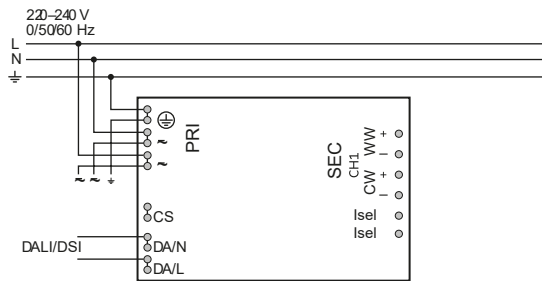


- ATTENZIONE: RISCHIO DI SCOSSA ELETTRICA
- MANEGGIARE CON CURA
- USARE GUANTI ELETTROSTATICI.

- ATTENTION: RISK OF ELECTRIC SHOCK
- OBSERVE PRECAUTION FOR HANDLING
- USE ANTISTATIC GLOVES.



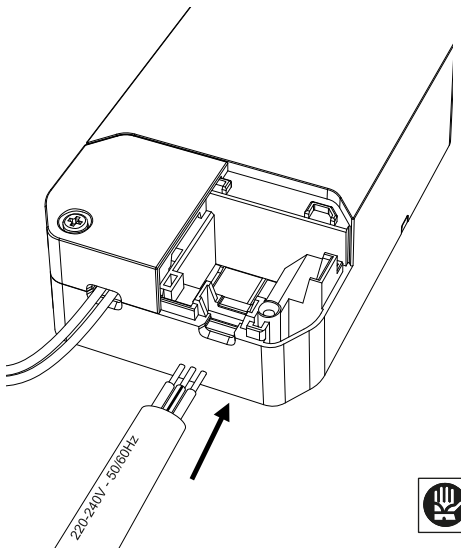
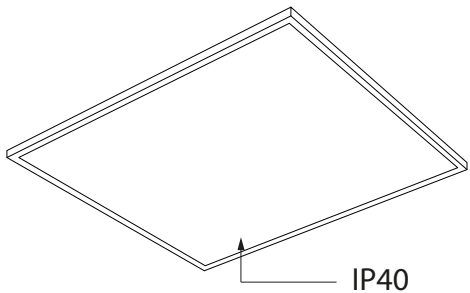
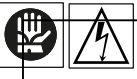
L = Linea
N = Neutro
⊕ = Terra
D1 = Dali 1
D2 = Dali 2



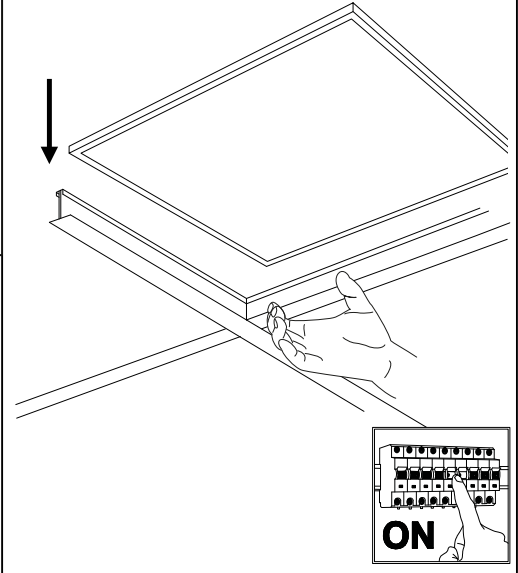
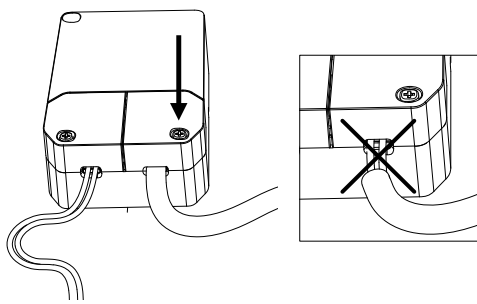
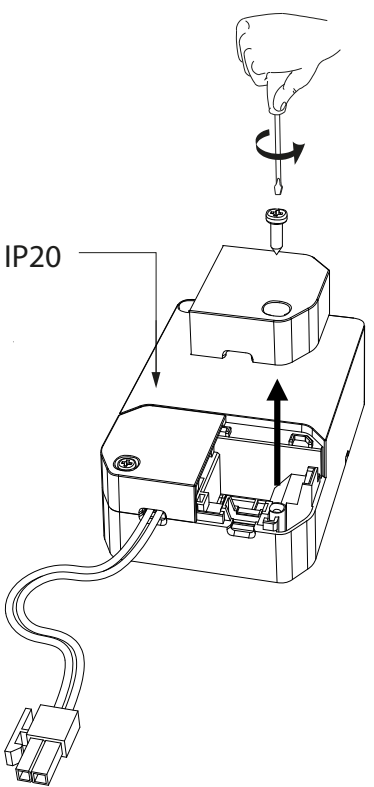
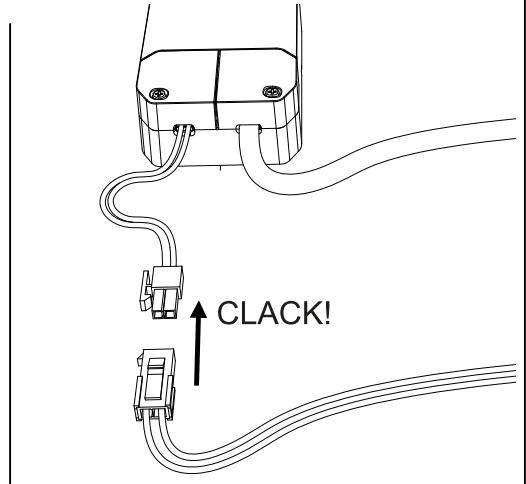
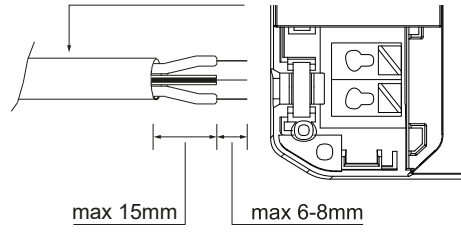
Device with loop through wiring function.

spelatura cavetti
cordati, solidi e flessibili
stranded, solid and
flexible wires stripping

0,5-1=8-9
1,5-2,5=9-10



H07RN-F 2G (Ø max 8mm)
min 2x1.0mm²
max 2x1.5mm²



AVVERTENZE:

- Eseguire i collegamenti dell'alimentatore secondo gli schemi qui riportati.
- Collegare la batteria all'alimentatore prestando molta attenzione alla polarità del connettore.
- La batteria, ad installazione ultimata, deve essere ricaricata per almeno 30 ore affinché il sistema sia in grado di funzionare con l'autonomia dichiarata.
- Il sistema dev'essere alimentato unicamente con la batteria in dotazione, non associare a dispositivi di ricarica esterni.
- Installare i prodotti dotati di emergenza entro 15 giorni dal ricevimento degli stessi.
- In caso di stoccaggio prolungato assicurarsi che il cavo della batteria sia scollegato.
- Effettuare periodicamente (ogni 3 mesi) almeno un ciclo di scarica e ricarica della batteria per ottenere la massima efficienza del sistema.
- Sostituire le batterie ogni 4 anni o dopo circa 500 cicli di scarica e ricarica.
- Prima di ogni operazione di manutenzione disinserire tutte le alimentazioni, compresa la batteria.
- Non disperdere nell'ambiente i materiali contenuti nel prodotto.

IMPORTANT:

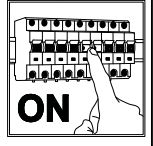
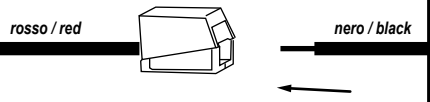
- For the wiring please refer to enclosed wiring diagrams.
- Great attention must be paid to polarity during the installation of the battery.
- Keep batteries away from heat souls (away from magnetic battery).
- In order to check the correct functionality we comanded charging of about 30 hours.
- Install the product contains an emergency kit within 15 days from receipt of the products.
- For prolonged storage make sure that the battery cable is disconnected.
- This system is made to be powered only with the supplied batteries: do not connect any external battery charger.
- It is advisable to effect periodically (every 3 month) at least one discharge and charge cycle in order to assure the max efficiency.
- Replace the battery every 4 years or after 500 charge/discharge cycles.
- Before every maintrance operation, disconnect all mains.
- This product contains materials which could be toxic if improperly disposed in the environment.

ATTENZIONE:

PRIMA DI COLLEGARE IL KIT EMERGENZA APRIRE IL BOX E COLLEGARE LE DUE BATTERIE AI RISPETTIVI MORSETTI DELL'INVERTER.

ATTENTION:

BEFORE CONNECTING THE EMERGENCY KIT, OPEN THE BOX AND CONNECTING THE TWO BATTERIES TO RESPECTIVE INVERTER TERMINALS.



4.5 Maximum loading of automatic circuit breakers in relation to inrush current

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20	Inrush current
Installation Ø	1.5 mm ²	1.5 mm ²	2.5 mm ²	4 mm ²	1.5 mm ²	1.5 mm ²	2.5 mm ²	4 mm ²	I _{max} time
LCA 38W 350-1050mA DT8 SR PRE	16	21	26	33	10	13	16	20	26 A 224 µs

These are max. values calculated out of inrush current! Please consider not to exceed the maximum rated continuous current of the circuit breaker.

Calculation uses typical values from ABB series S200 as a reference.

Actual values may differ due to used circuit breaker types and installation environment.

4.6 Harmonic distortion in the mains supply (at 230 V / 50 Hz and full load) in %

	THD	3.	5.	7.	9.	11.
LCA 38W 350-1050mA DT8 SR PRE	< 10	< 10	< 3	< 3	< 2	< 2

4.7 Dimming

Dimming range 1% to 100%

Digital control with:

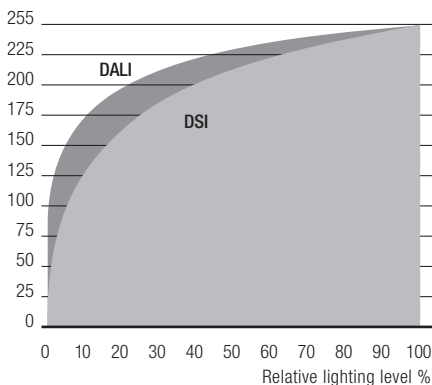
- DSI signal: 8 bit Manchester Code
Speed 1% to 100% in 1.4 s
- DALI signal: 16 bit Manchester Code
Speed 1% to 100% in 0.2 s
Programmable parameter:
Minimum dimming level
Maximum dimming level
Default minimum = 1%
Programmable range 1% ≤ MIN ≤ 100%
Default maximum = 100%
Programmable range 100% ≥ MAX ≥ 1%

Dimming characteristics adapted to the eye sensitiveness.

Dimming is realized by amplitude dimming.

4.8 Dimming characteristics

Digital dimming value



Dimming characteristics as seen by the human eye

5. Interfaces / communication

5.1 Control input (DA/N, DA/L)

Digital DALI signal or switchDIM can be wired on the same terminals (DA/N and DA/L).

The control input is non-polar for digital control signals (DALI, DSI). The control signal is not SELV. Control cable has to be installed in accordance to the requirements of low voltage installations. Different functions depending on each module.

5.2 switchDIM

Integrated switchDIM function allows a direct connection of a pushbutton for dimming and switching.

Brief push (< 0.6 s) switches LED driver ON and OFF. The dimm level is saved at power-down and restored at power-up.

When the pushbutton is held, LED modules are dimmed. After repush the LED modules are dimmed in the opposite direction.

In installations with LED drivers with different dimming levels or opposite dimming directions (e.g. after a system extension), all LED drivers can be synchronized to 50% dimming level by a 10 s push.

Use of pushbutton with indicator lamp is not permitted.

5.3 colourSWITCH

A conventional pushbutton can be used to control the system via colourSWITCH.

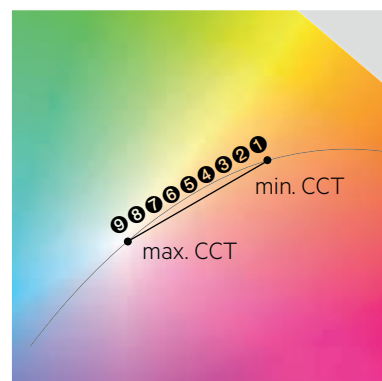
Use of pushbutton with indicator lamp is not permitted.

If the device is controlled via DALI/DSI, colourSWITCH is not available.

For control via a pushbutton different settings can be made:

- Short press: Setting the colour temperature via colourSWITCH mode with 9 values between 2,700 and 6,500 K.
- Long press (> 1 s): Stepless setting of colour temperature. After completion the colour temperature direction will be inverted.
- These values can be changed via masterCONFIGURATOR.
- Alternatively the colour temperature could be changed via DALI device type 8 control system.

In installations with LED drivers with different colour temperature or opposite colour temperature directions (e.g. after a system extension), all LED drivers can be synchronized to 4,500 K by a 10 s push.



6. Functions

6.1 Function: adjustable current

The output current of the LED driver can be adjusted in a certain range. For adjustment there are two options available.

Option 1: DALI

Adjustment is done by masterCONFIGURATOR (see masterCONFIGURATOR documentation).

Adjustment can be done for each channel individually.

Option 2: I-SELECT 2

By inserting a suitable resistor into the I-SELECT 2 interface, the current value can be adjusted. The relationship between output current and resistor value can be found in the chapter "Accessories I-SELECT 2 Plugs".



Please note that the resistor values for I-SELECT 2 are not compatible with I-SELECT (generation 1). Installation of an incorrect resistor may cause irreparable damage to the LED module(s). The I-SELECT 2 adjustment will be taken for all channels.

Resistors for the main output current values can be ordered from Tridonic (see accessories).

The priority for current adjustment methods is DALI (highest priority), I-SELECT 2 (lowest priority).

Programming must always be performed with LED modules connected.

6.2 Short-circuit behaviour

In case of a short-circuit at the LED output the LED output is switched off. After restart of the LED driver the output will be activated again. The restart can either be done via mains reset or via interface (DALI, DSI, switchDIM).

6.3 No-load operation

The LED driver will not be damaged in no-load operation. The output will be deactivated and is therefore free of voltage. If a LED load is connected the device has to be restarted before the output will be activated again.

6.4 Overload protection

If the maximum load is exceeded by a defined internal limit, the LED driver turns off the LED output. After restart of the LED driver the output will be activated again.

The restart can either be done via mains reset or via interface (DALI, DSI, switchDIM).

6.5 Overtemperature protection

The LED driver is protected against temporary thermal overheating. If the temperature limit is exceeded the output current of the LED module(s) is reduced. The temperature protection is activated above $t_{c\ max}$. The activation temperature differs depending on the LED load. On DC operation this function is deactivated to fulfill emergency requirements.

6.6 corridorFUNCTION

The corridorFUNCTION can be programmed in two different ways.

To program the corridorFUNCTION by means of software a DALI-USB interface is needed in combination with a DALI PS. The software can be the masterCONFIGURATOR.

To activate the corridorFUNCTION without using software a voltage of 230 V has to be applied for five minutes at the switchDIM connection.

The unit will then switch automatically to the corridorFUNCTION.

Note:

If the corridorFUNCTION is wrongly activated in a switchDIM system (for example a switch is used instead of pushbutton), there is the option of installing a pushbutton and deactivating the corridorFUNCTION mode by five short pushes of the button within three seconds.

switchDIM and corridorFUNCTION are very simple tools for controlling gears with conventional pushbuttons or motion sensors.

To ensure correct operation a sinusoidal mains voltage with a frequency of 50 Hz or 60 Hz is required at the control input.

Special attention must be paid to achieving clear zero crossings. Serious mains faults may impair the operation of switchDIM and corridorFUNCTION.

6.7 Constant light output (CLO)

The luminous flux of a LED decreases constantly over the lifetime.

The CLO function ensures that the emitted luminous flux remains stable. For that purpose the LED current will increase continuously over the LED lifetime. In masterCONFIGURATOR it is possible to select a start value (in percent) and an expected lifetime.

The LED driver adjusts the current afterwards automatically.

6.8 Power-up/-down fading

The power-up/-down function offers the opportunity to modify the on-/off behavior. The time for fading on or off can be adjusted in a range of 0.2 to 16 seconds. According to this value, the device dims either from 0 % up to the power-on level or from the current set dim level down to 0 %.

This feature applies while operating via switchDIM and when switching the mains voltage on or off.

By factory default no fading time is set (= 0 seconds).

6.9 Light level in DC operation

The LED driver is designed to operate on DC voltage and pulsed DC voltage. For a reliable operation, make sure that also in DC emergency operation the LED driver is run within the specified conditions as stated in chapter "4.1 operating window".

Light output level in DC operation: programmable 1 – 100 % (EOfi = 0.13). Programming by DALI.

In DC operation dimming mode can be activated.

The voltage-dependent input current of Driver incl. LED module is depending on the used load.

The voltage-dependent no-load current of Driver (without or defect LED module) is for:

AC: 22 mA (at 230 V, 50 Hz)

DC: 6 – 10 mA (at 275 – 186 V, 0 Hz)