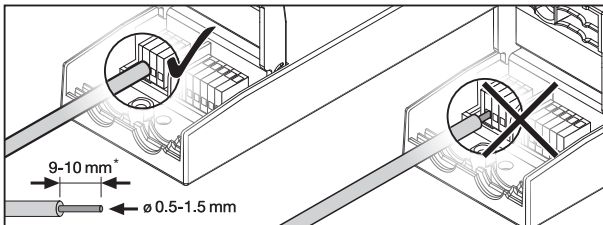
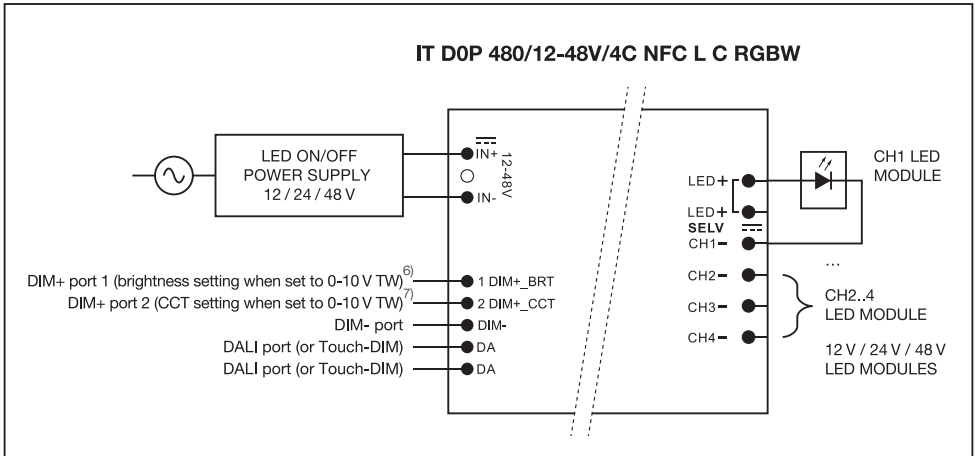
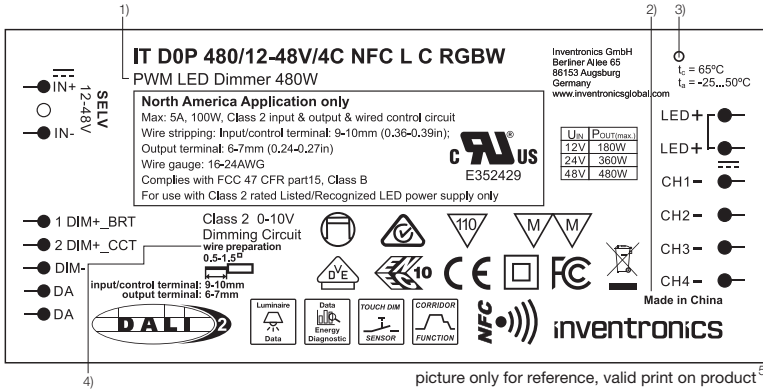


# ICUTRONIC® LED Dimmer

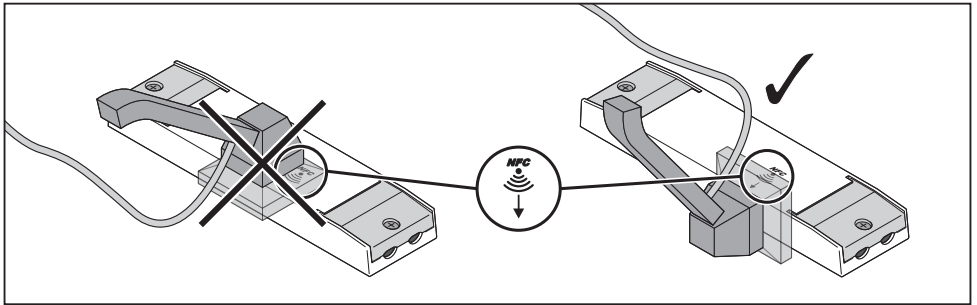
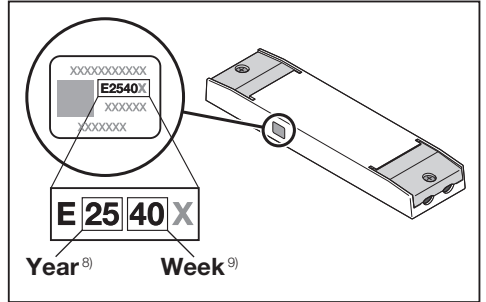
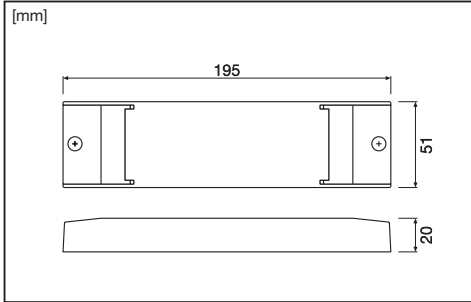
IT D0P 480/12-48V/4C NFC L C RGBW



The nominal cross-sectional area of external flexible cables or cords shall not be less than that shown in the table below:<sup>22)</sup>

| Input / output current [A] | Nominal cable cross-section [mm <sup>2</sup> ] |
|----------------------------|--|
| ≤ 3                        | 0.5  |
| 3 < A ≤ 6                  | 0.75   |
| 6 < A ≤ 10                 | 1.0  |
| 10 < A ≤ 15                | 1.5  |

\* Please make sure the wire conductor for IN+ and IN- has adequate contact with metal part of the terminal block and reliably retained by the terminal block. Insufficient contact may result in the input terminal burn due to overheat.<sup>21)</sup>



| Output load range<br>(per channel) <sup>10)</sup> | Channels <sup>11)</sup> | DT6 and 0-10V |      |      | DT8 RGBW |      |      |
|---|-------------------------|---------------|------|------|----------|------|------|
|   |                         | 12V           | 24V  | 48V  | 12V      | 24V  | 48V  |
|   | CH1                     | 120W          | 240W | 480W | 120W     | 240W | 480W |
| CH2   | 120W                    | 240W          | 480W | 120W | 240W     | 480W |      |
| CH3   | 120W                    | 240W          | 480W | 120W | 240W     | 480W |      |
| CH4   | 120W                    | 240W          | 480W | 120W | 240W     | 480W |      |
| Total   |                         | 180W          | 360W | 480W | 120W     | 240W | 480W |

| Output current<br>(per channel) <sup>12)</sup> | Channels <sup>11)</sup> | DT6 and 0-10V |     |     | DT8 RGBW |     |     |
|--|-------------------------|---------------|-----|-----|----------|-----|-----|
|  |                         | 12V           | 24V | 48V | 12V      | 24V | 48V |
|  | CH1                     | 10A           | 10A | 10A | 10A      | 10A | 10A |
| CH2  | 10A                     | 10A           | 10A | 10A | 10A      | 10A |     |
| CH3  | 10A                     | 10A           | 10A | 10A | 10A      | 10A |     |
| CH4  | 10A                     | 10A           | 10A | 10A | 10A      | 10A |     |
| Total  |                         | 15A           | 15A | 10A | 10A      | 10A | 10A |

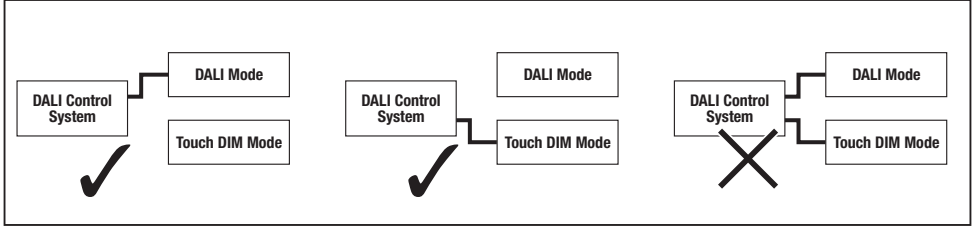
|                                     |            |   |
|-------------------------------------|------------|---|
| Min load per channel <sup>13)</sup> | 1          | A |
| Capacitive load <sup>14)</sup>      | 1.0uF/1.0A |   |

Min each CH load > 1A<sup>15)</sup>

For max cable length, please refer to datasheet of the matching constant voltage driver in your system.<sup>16)</sup>

## ICUTRONIC® LED Dimmer

The IT D0P 480/12-48V/4C NFC L C RGBW is connected between an Inventronics constant voltage power supply and an LED-module. The permissible input voltage and temperature range of the dimmer must not be exceeded. Connect only 12V, 24V or 48V LED load and power supplies to the IT D0P 480/12-48V/4C NFC L C RGBW.<sup>17)</sup>



## Programmable dimming modes<sup>18)</sup>

| Dimming Mode <sup>19)</sup> |                          | Channels <sup>11)</sup>  |
|-----------------------------|--------------------------|--|
| 1x DT6                      | 1 output                 | Addr.1: CH1  |
| 2x DT6                      | 2 independent outputs    | Addr.1: CH1, Addr.2: CH2                                       |
| 3x DT6                      | 3 independent outputs    | Addr.1: CH1, Addr.2: CH2, Addr.3: CH3                          |
| 4x DT6*                     | 4 independent outputs*   | Addr.1: CH1, Addr.2: CH2, Addr.3: CH3, Addr.4: CH4*            |
| 4sync DT6                   | 4 synchronised outputs   | Addr.1: CH1, CH2, CH3, CH4                                     |
| DT8 RGBW                    | RGBW                     | CH1: R; CH2: G; CH3: B; CH4: W                                 |
| DT8 TW                      | TW                       | CH1: Cold; CH2: Warm   |
| 2x DT8                      | 2xTW                     | Addr.1: CH1: Cold, CH2: Warm<br>Addr.2: CH3: Cold, CH4: Warm   |
| D2W                         | DIM to Warm              | Addr.1: CH1: Cold, CH2: Warm                                   |
| 2x D2W                      | 2x DIM to Warm           | Addr.1: CH1: Cold, CH2: Warm<br>Addr.2: CH3: Cold, CH4: Warm   |
| Touch DIM                   | 4 synchronised outputs   |  |
| 2x Touch DIM                | TW Touch DIM             | TD1 (CH1) / TD2 (CH2)  |
| Touch DIM D2W               | DIM to Warm output       | Cold: CH1; Warm: CH2   |
| 2x Touch DIM D2W            | 2x DIM to Warm output    | TD1: Cold (CH1) / Warm (CH2)<br>TD2: Cold (CH3) / Warm (CH4)   |
| Touch DIM TW                | Tunable White            | Cold (CH1) / Warm (CH2)  |
| Corridor Functionality      | 4 synchronised outputs   |  |
| 0-10V                       | 4 synchronised outputs   | DIM1: CH1 + CH2 + CH3 + CH4                                    |
| 0-10V negative logic        | 4 synchronised outputs   | DIM1: CH1 + CH2 + CH3 + CH4                                    |
| 0-10V 2x2                   | 2x2 synchronised outputs | DIM1: CH1 + CH2; DIM2: CH3 + CH4                               |
| 0-10V 2x2 negative logic    | 2x2 synchronised outputs | DIM1: CH1 + CH2; DIM2: CH3 + CH4                               |
| 0-10V D2W                   | DIM to Warm output       | DIM1: Cold (CH1 + CH3) / Warm (CH2 + CH4)                      |
| 0-10V 2xD2W                 | 2xDIM to Warm output     | DIM1: Cold (CH1) / Warm (CH2)<br>DIM2: Cold (CH3) / Warm (CH4) |
| 0-10V TW                    | Tunable White            | Cold (CH1 + CH3) / Warm (CH2 + CH4)                            |

\* factory default<sup>20)</sup>

Ⓒ 1) Pulse Width Modulation LED Dimmer 480W; 2) Made in China; 3) t<sub>c</sub> point; 4) wire preparation; 5) picture only for reference, valid print on product; 6) brightness setting when set to 0-10V TW; 7) Correlated color temperature setting when set to 0-10V TW; 8) Year; 9) Week; 10) Output load range (per channel); 11) Channels; 12) Output current (per channel); 13) Min load per channel; 14) Capacitive load; 15) Min each channel load > 1A; 16) For max cable length, please refer to datasheet of the matching constant voltage driver in your system. 17) The IT D0P 480/12-48V/4C NFC L C RGBW is connected between an Inventronics constant voltage power

supply and an LED-module. The permissible input voltage and temperature range of the dimmer must not be exceeded. Connect only 12V, 24V or 48V LED load and power supplies to the IT D0P 480/12-48V/4C NFC L C RGBW. 18) Programmable dimming modes; 19) Dimming Mode; 20) factory default; 21) Please make sure the wire conductor for IN+ and IN- has adequate contact with metal part of the terminal block and reliably retained by the terminal block. Insufficient contact may result in the input terminal burn due to overheat. 22) The nominal cross-sectional area of external flexible cables or cords shall not be less than that shown in the table below

Ⓓ 1) Pulsweitenmodulation LED Dimmer 480 W; 2) Hergestellt in China; 3)  $t_c$ -Punkt 4) Drahtvorbereitung; 5) Foto dient nur als Referenz, gültiger Aufdruck auf dem Produkt; 6) Helligkeitsinstellung bei Einstellung auf 0-10 V/TW; 7) Korrekte Farbtemperatur-Einstellung bei Einstellung auf 0-10 V/TW; 8) Jahr; 9) Woche; 10) Ausgangsbelastungsbereich (pro Kanal); 11) Kanäle; 12) Ausgangstrom (pro Kanal); 13) Mindestlast (pro Kanal); 14) Kapazitive Last; 15) Mindestlast pro Kanal > 1A; 16) Die maximale Kabellänge entnehmen Sie bitte dem Datenblatt des passenden Konstantspannungs-Treibers in Ihrem System. 17) Der IT DOP 480/12-48V/4C NFC L C RGBW wird zwischen einem Inventronics-Konstantspannungsnetzteil und einem LED-Modul angeschlossen. Die zulässige Eingangsspannung und der zulässige Temperaturbereich des Dimmers dürfen nicht überschritten werden. Schließen Sie nur 24V, 24V oder 48V-Laseng- und -Netzeile an den IT DOP 480/12-48V/4C NFC L C RGBW an. 18) Programmierbare Dimmmodi; 19) Dimmmodus; 20) Werkseinstellung; 21) Stellen Sie sicher, dass die Leiterdrähte für IN+ und IN- einen ausreichenden Kontakt mit dem Metallteil des Klemmenblocs haben und zuverlässig vom Klemmenblock gehalten werden. Ein unzureichender Kontakt kann aufgrund von Überhitzung zu einem Durchbrennen der Eingangsklemme führen. 22) Der Nennquerschnitt von externen flexiblen Kabeln oder Leitungen darf nicht kleiner sein als in der folgenden Tabelle angegeben

Ⓔ 1) Pulse Width Modulation LED Dimmer 480W; 2) Fabrique en Chine; 3) Point  $T_c$ ; 4) préparation du câble; 5) image non contractuelle, se référer aux inscriptions sur le produit; 6) brightness setting when set to 0-10V TW 7) Correlated color temperature setting when set to 0-10V TW 8) Year 9) Week 10) Output load range (per channel) 11) Channels 12) Output current (per channel) 13) Min load per channel 14) Capacitive load 15) Min each channel load > 1A 16) For max cable length, please refer to datasheet of the matching constant voltage driver in your system. 17) The IT DOP 480/12-48V/4C NFC L C RGBW is connected between an Inventronics constant voltage power supply and an LED-module. The permissible input voltage and temperature range of the dimmer must not be exceeded. Connect only 12V, 24V or 48V LED load and power supplies to the IT DOP 480/12-48V/4C NFC L C RGBW. 18) Programmable dimming modes 19) Dimming Mode 20) factory default; 21) Veuillez vous assurer que le conducteur des fils IN+ et IN- est correctement en contact avec la partie métallique du bornier et qu'il est bien maintenu par celui-ci. Un contact insuffisant peut entraîner une surchauffe et endommager la borne d'entrée. 22) La section nominale des câbles ou cordons flexibles externes ne doit pas être inférieure à celle indiquée dans le tableau ci-dessous

Ⓕ 1) Gradateur LED à modulation de largeur d'impulsion 480W; 2) Prodotto in Cina; 3) Punto  $t_c$ ; 4) preparazione del cavo; 5) immagine solo come riferimento, stampa valida sul prodotto; 6) Réglage de la luminosité lorsqu'il est réglé sur 0-10 V TW; 7) Réglage de la température de couleur corrélée lorsqu'il est réglé sur 0-10 V TW; 8) Année; 9) Semaine; 10) Plage de charge de sortie (par canal); 11) Canaux; 12) Courant de sortie (par canal); 13) Charge minimale par canal; 14) Charge capacitive; 15) Charge minimale par canal > 1A; 16) Pour la longueur maximale du câble, veuillez vous reporter à la fiche technique du driver à tension constante correspondant à votre système. 17) LIT DOP 480/12-48V/4C NFC L C RGBW est connecté entre une alimentation à tension constante Inventronics et un module LED. La tension d'entrée et la plage de température admissibles du gradateur ne doivent pas être dépassées. Ne connectez que des charges LED et des alimentations 12 V, 24 V ou 48 V à l'IT DOP 480/12-48V/4C NFC L C RGBW. 18) Modes de gradation programmables; 19) Mode de gradation; 20) Réglage d'usine par défaut; 21) Assicurarsi che il conduttore del cavo per IN+ e IN- abbia un contatto adeguato con la parte metallica della morsetteria e sia fissato in modo affidabile alla morsetteria. Un contatto insufficiente può causare la bruciatura del terminale di ingresso a causa del surriscaldamento. 22) L'area della sezione trasversale nominale dei cavi flessibili esterni o dei cordoni non deve essere inferiore a quella indicata nella tabella seguente

Ⓖ 1) Pulsbreedtemodulatie LED-dimmer 480 W; 2) Geproduceerd in China; 3)  $t_c$ -punt; 4) draadvorbereiding; 5) afbeelding slechts ter informatie, zie geldig stempel op product; 6) Helderheidsinstelling bij instelling op 0-10 V TW; 7) Geassocieerde kleurtemperatuurinstelling bij instelling op 0-10 V TW; 8) Jaar; 9) Week; 10) Uitgangsbelaastingbereik (per kanaal); 11) Kanaalen; 12) Uitgangsstroom (per kanaal); 13) Min. belasting per kanaal; 14) Capacitieve belasting; 15) Min. belasting per kanaal > 1A; 16) Raadpleeg het gegevensblad van de bijbehorende constante spanningsdriver in uw systeem voor de maximale kabel lengte. 17) De IT DOP 480/12-48V/4C NFC L C RGBW wordt aangesloten tussen een Inventronics constante spanningsvoeding en een LED-module. De toegestane ingangsspanning en het temperatuurbereik van de dimmer mogen niet worden overschreden. Sluit alleen 12V, 24V of 48V LED-belastingen in voeding aan op de IT DOP 480/12-48V/4C NFC L C RGBW. 18) Programmeerbare dimmodi; 19) Dimmodus; 20) Fabriekinstelling; 21) Zorg ervoor dat de draad geleiders voor IN+ en IN- voldoende contact maakt met het metaal deel van het aansluitblok en goed vast zijn in het aansluitblok. Onvoldoende contact kan leiden tot oververhitting en brandschade aan de ingangsaansluiting. 22) De nominale doorsnede van externe flexibele kabels of snoeren mag niet kleiner zijn dan aangegeven in de onderstaande tabel

Ⓗ 1) Scienniczki LED z modulacją szerokości impulsu 480 W; 2) Wyprodukowano w Chinach; 3) punkt pomiaru temperatury  $T_c$ ; 4) rzygotowanie przewodu; 5) Obraz służy jedynie jako przykład, obowiązujący nadruk znajduje się na produkcie; 6) ustawienie jasności przy ustawieniu 0-10 V TW; 7) ustawienie skorelowanej temperatury barwowej przy ustawieniu 0-10 V TW; 8) rok; 9) tydzień; 10) zakres obciążenia wyjściowego (na kanał); 11) kanały; 12) prąd wyjściowy (na kanał); 13) Minimalne obciążenie na kanał; 14) Obciążenie pojemnościowe; 15) Minimalne obciążenie każdego kanału > 1A; 16) Informacje na temat maksymalnej długości kabla można znaleźć w karcie katalogowej odpowiedniego sterownika stałoprądowego w systemie. 17) IT DOP 480/12-48V/4C NFC L C RGBW jest podłączony między zasilaczem stałoprądowym Inventronics a modulem LED. Nie wolno przekraczać dopuszczalnego napięcia wyjściowego i zakresu temperatur scienniczki. 18) IT DOP 480/12-48V/4C NFC L C RGBW należy podłączyć wyłącznie obciążenia LED 12V, 24V lub 48V oraz zasilacze. 19) Programowalne tryby ściemniania; 20) Ustawienia fabryczne; 21) Upewnij się, że przewody IN+ i IN- mają odpowiedni kontakt z metalową częścią listwy zaciskowej i są dobrze przymocowane do listwy zaciskowej. Niewystarczający kontakt może spowodować przegrzanie zacisku wyjściowego. 22) Nominalna powierzchnia przekroju poprzecznego zewnętrznych elastycznych kabli lub przewodów nie może być mniejsza niż podano w poniższej tabeli

Ⓙ 1) Darbe Genişlik Modülasyonu LED Dimmer 480W; 2) Çin'de üretilmiştir; 3)  $t_c$  ölçüm noktası; 4) kablo kurulumu; 5) resim yalnızca referans amaçlıdır, geçerli baskı ürün üzerindedir; 6) 0-10V TW ayarlandığında parlaklık ayarı; 7) 0-10V TW ayarlandığında ışık renk sıcaklığı ayarı; 8) Yıl; 9) Hafta; 10) Çıkış yük aralığı (kanal başına); 11) Kanallar; 12) Çıkış akımı (kanal başına); 13) Kanal başına minimum yük; 14) Kapasitif yük; 15) Her kanal için minimum yük > 1A; 16) Maksimum kablo uzunluğu için lütfen sistemimizdeki uygun sabit voltaj sürücüsünün veri sayfasına bakınız. 17) IT DOP 480/12-48V/4C NFC L C RGBW, Inventronics sabit voltaj güç kaynağı ile LED modülünü arasıra bağlanır. Dimmerin izin verilen giriş voltajı ve çıkış akımı gereklilikleri, IT DOP 480/12-48V/4C NFC L C RGBW'ye yalnızca 12V, 24V veya 48V LED yükü ve güç kaynakları bağlayın. 18) Programlanabilir karar alma modları; 19) Karar alma modu; 20) fabrika varsayıları; 21) IN+ ve IN- için tel letkeninin terminal bloğuna metal parçasıyla yerleştirilmesi gerekmektedir ve terminal bloğu tarafından güvenilir bir şekilde tutulduğundan emin olun. Yeterli temas, ağırlı ısınma nedeniyle ışık terminalinin yarınmasında neden olabilir. 22) Harici esnek kabloların veya kordonların nominal kesit alanı, aşağıdaki tablodaki gösterilenlerden az olmalıdır

- Ⓖ Inventronics Turkey Teknoloji Ticaret Limited Şirketi, Büyükdere Cad. Bahar Sok. River Plaza No: 13/5 Sisli 34394 İstanbul, Turkey
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- Ⓖ 2825 Tulsa Avenue, Oklahoma City, OK 73108, USA

Ⓖ Ⓖ WARNING: DALI, 0/1-10V (FELV) control terminals are not safe to touch. Circuits connected to any DALI, 0/1-10V (FELV) control terminal shall be insulated for the LV supply voltage of the control gear, and any terminals connected to the DALI, 0/1-10V (FELV) circuits shall be protected against accidental contact. IT DOP 480/12-48V/4C NFC LC RGBW classified as "Non-IC": The independent LED dimmer cannot be abutted against or covered by normally flammable materials or used in installations where building insulation or debris is, or may be, present in normal use. No use for residential installations. The minimum clearance distance from the top and sides of the independent LED dimmer to normally flammable building elements is A=B=C=10mm.

