



# light design & technology

**TRONIX** guided by light





Light connects. It creates atmosphere, experiences and emotion. As a comprehensive LED supplier, we have the perfect answer for any light-related question. For you, for ourselves, and out of respect for the beauty around us. We're guided by light.



## Care

*We care for our clients. We help them do what they do best. We strive to build a long-term relationship, so that we can rely on one another unconditionally.*

*We zorgen voor onze klanten. We helpen ze te doen waar ze goed in zijn. We streven naar een duurzame relatie, zodat we onvoorwaardelijk op elkaar kunnen bouwen.*



## Share

*Knowledge is power, but sharing is even more powerful. Because sharing means: growing together. We as a supplier, and our client as an authority/specialist for their own clients.*

*Kennis is kracht, kennis delen is nog veel krachtiger. Want delen betekent: samen groeien. Wij als leverancier, en onze klant als autoriteit/specialist voor zijn eindklant.*



## Connect

*We connect people and partners. Together, we can make one plus one equal three. We see the market as a dynamic playing field, where together we can make 'beautiful' even more beautiful!*

*We verbinden mensen en partijen. Samen maken we van één plus één drie. We zien de markt als een dynamisch speelveld, waarin we samen 'mooi' nog mooier maken.*

**TRONIX** guided by light

# Light design & technology

🇬🇧 Our high-end selection of decorative led applications and control options is the seal mark of 25 years of experience in the light technology sector. We're real 'LED nerds', with a know-how factor that you can rely on 100%. We bring lighting solutions that excel in function ánd wow factor.

Custom solutions? No problem. You can also rely on us for any adjustments to existing light solutions. Our mission is to have design and technique dance a perfect tango for you, with quality and satisfied customers as our top priority. We're proud of our trade and use all of our knowledge and expertise to do what we promise. We always think in terms of solutions. And always manage to find them!

🇳🇱 Ons high-end aanbod in decoratieve led toepassingen en aansturingsmogelijkheden is het keurmerk van 25 jaar expertise in lichttechniek: we zijn echte 'led-nerds' met een knowhow-factor waar je voor de volle 100 procent op kunt bouwen. We gaan voor slimme lichtoplossingen die uitblinken in functie én wow-factor.

Maatwerk? Regelen we voor je. Voor aanpassingen op bestaande lichtoplossingen kun je op onze lichtexperts rekenen. We laten design en techniek perfect voor jou samenwerken. Kwaliteit en tevreden klanten staan bij ons op nummer één. We zijn trots op ons vak, en we zetten al onze kennis en kunde in om te doen wat we beloven. Daarbij denken we altijd in oplossingen. En die vinden we!





Office and showroom in Uden - The Netherlands



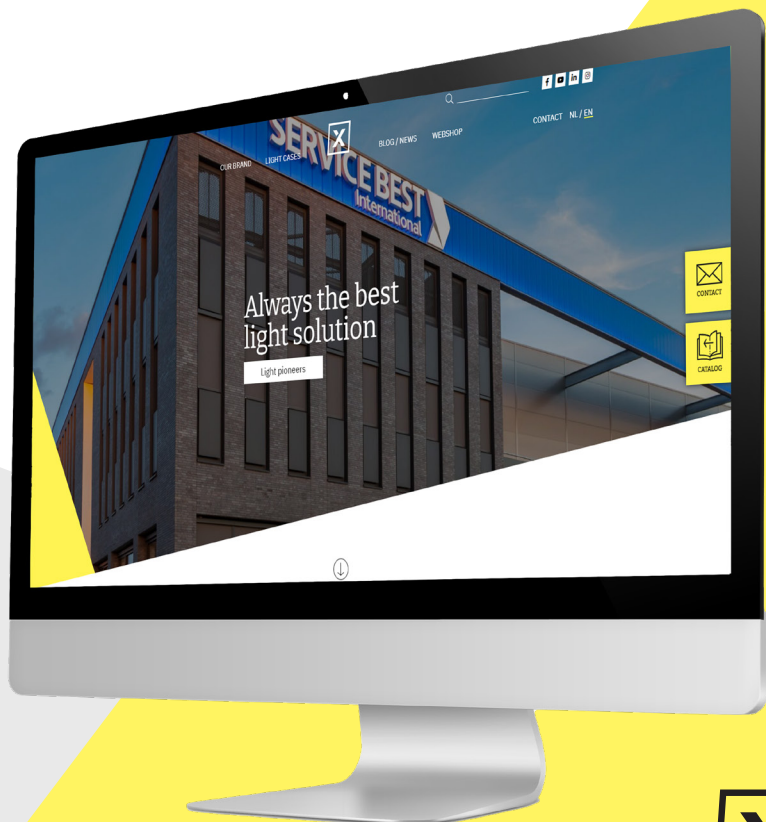
Looking for our latest product releases? We keep continued focus on new product development and further extension of our range. Visit our website for a most actual overview.

Op zoek naar onze allernieuwste producten? We werken voortdurend aan nieuwe productontwikkeling en een verdere uitbreiding van ons assortiment. Bezoek onze website voor het meest actuele overzicht!



Order online? Ask for your personal login account at [sales@tronixlighting.com](mailto:sales@tronixlighting.com)

Orders placed before 12.00h (GMT +1) will be shipped the same day





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# Technical indications

There is a lot to know about light and we think it is important to share this knowledge with you. Why? Because we place high demands on the quality of our lighting products, and this information will help you to qualify and compare products better. Below overview of important technical specifications and measurement factors can be of help.

## CRI value

The Color Rendering or Color Rendering Index (CRI value) tells you on a scale of 0-100% how 'true' a light source represents the colors compared to real daylight. The higher the CRI value of a light source, the more real the colors. A CRI value value of 80 means a quite high color rendering; CRI value values of 90 or more have an excellent color rendering.

## Dimming

LED can be dimmed in many ways. A primary condition is that the LED lamp itself is suitable for dimming, and also the dimmer must be fit for controlling the LED. On top of that, the driver needs to be suitable for the combination of dimmer and LED lamp. And there is a difference of control between LED dimmers: it can be analogue (0-10 V, 1-10V, trailing edge dimming) or digital (DALI, Casambi dimming).

## Human centric lighting

Human centric lighting has an undeniable impact on our daily rhythm and well-being. The slow change from light to dark not only controls our biological clock, but also affects our health, mood and productivity. This is where artificial light can help by gradually changing from cold to warm white throughout the day. Just like real daylight. You can recognise products that can meet this requirement by the 'HCL' logo.

## Flicker-free

The flickering of a light source is expressed in a Flicker percentage, and caused by the quality of the used Led driver. The lower the percentage, the better. A Flicker value > 35% is experienced as very annoying; values up to 15% can cause fatigue or headaches. All Tronix lighting and LED drivers have a flicker percentage below <1% and therefore meet all current EPREL requirements.

## IP rate

Ingress Protection (International Protection Rating) of a product, normalized to the IEC60529 standard. The IP value is expressed in 2 digits; the first number indicates the protection value against dust/touch, the second number the protection value against moisture. In case of Led lighting, IP ratings vary from IP20, non- or poorly resistant to dust and moisture, up to IP68 - water resistant and 100% dust resistant.

## IK rate

The Impact Protection Rating says something about the impact resistance of a luminaire, so to what extent it is resistant to mechanical shocks. In practice, this value varies from IK02 to IK10. The higher the IK value, the higher the impact resistance. Tronix wall/ceiling luminaires vary in value from IK08 (resistant to 5 Joule shocks) to IK10 (vandal-proof with a 20 Joule shock resistance).

## Kelvin

The Kelvin (K) value indicates the color temperature. The lower the Kelvin value, the warmer the light looks. The higher the number of Kelvin, the 'colder' the light. The standard Kelvin values for Led lighting start at 2300K (warm white) to 7000K (cold white).

## Lifespan

The lifespan of Led is many times longer than that of conventional lighting, such as incandescent lamps. A good Led easily achieves a lifespan of 50,000 hours, however the actual lifetime of the Led strongly depends on the ambient temperature (in connection with cooling), and the electronics used. The more stable the strength of current, the longer the lifespan. The humidity level of the Led environment is also an influential factor. In the course of time, it is however inevitable that the Luminous flux will eventually decrease to a maximum of 70%.

## Luminous flux

The amount of light(current) that a light source produces, in other words the sum of all emitted light, regardless of the direction in which the light shines. The Luminous flux value is often expressed as Luminous flux per Watt, which expresses the efficiency of the LED. With a Luminous flux of >130 Lm / Watt, Tronix High Efficiency Panels score very high on an operating efficiency level, making them eligible for EIA.

## LUX

The amount of lux is the most reliable measurement value for lighting and says something about the amount of light (Luminous flux) that ends up on a certain surface. 1 lux = 1 Lm / m<sup>2</sup>. For example: a light source of 1000 Lm spread over 1 m<sup>2</sup> illuminates that square meter with 1000 Lux. Spread that same 1000 Lm over 10m<sup>2</sup>, and it will then only illuminate 100 Lux. European standards for lux values in various interior lighting environments are captured in NEN 1246-1 regulations.

## Power factor

The power factor represents the relationship between the actual power (P) and the apparent power (Ps). The lower the power factor, the higher the unwanted power consumption. High quality Led lighting has a power factor of at least 0.90 and is now running up to 0.95 (max. 5% undesired power consumption). Inferior LED products have a considerably lower power factor; In addition to higher electricity costs, this also results in dangerous situations due to the large amount of reactive current.

## UGR

The Unified Glare Rating indicates the degree of light nuisance or glare. The average value is between 15 and 30. Below 10 there is no glare.

## Communication protocol

With a large variation in control and dimming techniques, the possibilities with the current Tronix range are endless. For example; we have DALI, Casambi, ZigBee, DMX, Triac and 1-10V. Can't find the right protocol? Each fixture can be supplied with integrated control in any desired protocol, simply ask us about the options and possibilities.



# Technische aanduidingen

Er is veel te weten over licht en wij vinden het belangrijk om deze kennis met u te delen. Waarom? Omdat we hoge eisen stellen aan de kwaliteit van onze verlichting, en deze informatie u zal helpen om producten beter te beoordelen en met elkaar te vergelijken. Onderstaand overzicht van belangrijke technische specificaties en meefactoren zijn hierbij een helpende hand.



## CRI value

De kleurweergave of Color Rendering Index (CRI value) geeft op een schaal van 0-100% aan hoe 'kleurecht' een lichtbron de kleuren weergeeft in vergelijking tot daglicht. Hoe hoger de CRI value van een lichtbron, hoe echter de kleuren. Een CRI value waarde van 80 betekent een hoge kleurweergave; CRI value waarden van 90 of meer hebben een uitstekende kleurweergave.



## Dimming

Led is op vele manieren te dimmen. Voorwaarde is wel dat de led lamp zelf geschikt is om te dimmen en de dimmer moet ook geschikt zijn voor het aansturen van de Led. Bij aanwezigheid van een driver moet deze daarnaast ook geschikt zijn voor de combinatie dimmer en led lamp. Tussen led dimmers zit ook nog een verschil van aansturing, deze kan Analog (0-10 V, 1-10V, Fase Aan-/afsnijding Dimming) of Digitaal zijn (DALI, Casambi).



## Human centric lighting

Human centric lighting heeft een onmiskenbare invloed op ons dagritme én ons welbevinden. De geleidelijke wisseling van licht naar donker stuurt niet alleen onze biologische klok aan, maar heeft ook invloed op onze gezondheid, ons humeur en onze productiviteit. Kunstlicht kan hier in ondersteunen door gedurende de dag en heel geleidelijk over te schakelen van koud naar warm wit. Net als echt daglicht. Producten die hieraan kunnen voldoen herken je door het 'HCL' logo.



## Flikkervrij

Het knipperen van een lichtbron wordt uitgedrukt in een Flikkerpercentage, en veroorzaakt door de kwaliteit van de gebruikte Led driver. Hoe lager het percentage, hoe beter. Een Flikkerwaarde >35% wordt als zeer hinderlijk ervaren; waarden tot 15% kunnen vermoeidheids- of hoofdpijnklachten veroorzaken. Alle Tronix verlichting en led drivers hebben een Flikkerpercentage onder de <1% en voldoen daarmee aan alle huidige EPREL eisen.



## IP rate

Ingress Protection (International Protection Rating) van een product, genormaliseerd volgens de IEC60529 norm. De IP waarde wordt in 2 cijfers uitgedrukt; het eerste getal geeft de beschermwaarde aan tegen stof/aanraken, het tweede getal de beschermwaarde tegen vocht. In de Led verlichting variëren de IP ratings van IP20 – niet (goed)bestendig tegen stof en vocht – tot aan IP68 – waterbestendig en 100% stofbestendig.



## IK rate

De Impact Protection Rating zegt iets over de slagvastheid van een armatuur, dus in hoeverre deze bestand is tegen mechanische schokken. In de praktijk varieert deze waarde van IK02 tot IK10. Hoe hoger de IK waarde, hoe hoger de slagvastheid. De wand-/plafondarmaturen van Tronix variëren in waarde van IK08 (weerstand tegen schokken van 5 Joule) tot IK10 (vandalismebestendig met een weerstand tegen schokken van 20 Joule).



## Kelvin

De Kelvin (K) waarde duidt op de kleurtemperatuur. Hoe lager de K waarde, hoe warmer het licht oogt. Hoe hoger het aantal Kelvin, hoe 'koudere' het licht. De standaard Kelvin-waarden beginnen bij 2300K (warm wit) tot 7000K (koud wit).



## Levensduur

De levensduur van led-verlichting is vele malen langer dan dat van conventionele verlichting zoals gloei- en halogeenlampen. Een goede led haalt makkelijk een levensduur van 50.000 uur, echter de uiteindelijke levensduur van de led is sterk afhankelijk van de omgevingstemperatuur (i.v.m. koeling), en de gebruikte elektronica. Hoe stabielere de stroomsterkte hoe langer de levensduur. Ook de vochtigheidsgraad van de led omgeving is nog van invloed. Overigens loopt de lichtopbrengst na verloop van tijd wel enigszins terug tot maximaal 70%.



## Luminous flux

De hoeveelheid licht(stroom) die een lichtbron oplevert, oftewel de som van al het uitgestraalde licht ongeacht de richting waarin het licht straalt. De Luminous flux waarde wordt vaak uitgedrukt per stroomeenheid (Lm/W) om de efficiëntie van de led uit te drukken. Tronix High Efficiency Panelen scoren met een lichtopbrengst van >130 Lm/Watt hoog in gebruiksefficiëntie, waardoor deze in aanmerking komen voor EIA.



## LUX

De hoeveelheid lux is de meest betrouwbare meetwaarde voor verlichting en zegt iets over de hoeveelheid licht (Luminous flux) die er op een bepaald oppervlak terecht komt. 1 lux = 1 Lm/m<sup>2</sup>. Vb: een lichtbron van 1000 Lm, verspreid over 1 m<sup>2</sup>, verlicht die vierkante meter met 1000 Lux. Verspreid over 10m<sup>2</sup> verlicht die zelfde 1000 Lm slechts 100 Lux. De gestelde Europese normen voor luxwaarden in diverse binnenverlichtingsomgevingen zijn vastgelegd in NEN 1246-1.



## Power factor

De power factor geeft de relatie weer tussen het werkelijke vermogen (P) en het schijnbare vermogen (Ps). Hoe lager de power factor, hoe hoger het ongewenste stroomverbruik. Hoge kwaliteit led verlichting heeft een powerfactor van minimaal 0,90 en loopt inmiddels tegen de 0,95 (max. 5% ongewenst stroomverbruik). Inferieure led producten hebben een aanzienlijk lagere power factor; behalve hogere stroomkosten levert dit ook gevaarlijke situaties op door de grote hoeveelheid blindstroom.



## UGR

De Unified Glare Rating geeft aan in hoeverre er sprake is van lichthinder of verblinding. De gemiddelde waarde ligt tussen de 15 en de 30. Beneden de 10 is er geen sprake van verblinding.



## Communicatieprotocol

Met een grote variatie in aansturing en dimtechnieken zijn de mogelijkheden met het huidige Tronix verlichtingsassortiment eindeloos. Zo beschikken we over DALI, Casambi, ZigBee, DMX, Triac en 1-10V. Toch niet het juiste protocol beschikbaar? Elk armatuur is te leveren met geïntegreerde aansturing in elk gewenst protocol. Vraag ons naar de opties en mogelijkheden.

# 1

# Drivers & Controllers

For the best possible dimming  
& controlling results



# Drivers & Controllers | Non Dimmable

## LED DRIVER | INDOOR | NON DIMMABLE

**Input voltage:** 220 - 240V  
**Constant current:** 350/700 mA  
**Power factor:** >0,8  
**Dimmable:** No  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-412	350 mA	20 Watt	2 - 58 Volt	113 x 44 x 28 mm
215-211	700 mA	12 Watt	2 - 12 Volt	99 x 39 x 22 mm
215-212	700 mA	20 Watt	2 - 29 Volt	113 x 44 x 28 mm

## LED DRIVER | CURRENT ADJUSTABLE NON DIMMABLE

**Input voltage:** 220 - 240V  
**Constant current:** 150~750mA  
**Power factor:** >0,9  
**Dimmable:** No

**IP Rate:** IP20  
**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

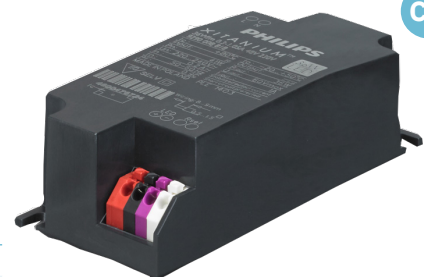


ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-160	150~260 mA	10 Watt	30 - 40 Volt	103 x 39 x 28 mm
215-163	150~360 mA	15 Watt	30 - 40 Volt	103 x 39 x 28 mm
215-161	300~620 mA	25 Watt	30 - 40 Volt	103 x 39 x 28 mm
215-162	450~750 mA	30 Watt	30 - 40 Volt	121 x 46 x 28 mm

## PHILIPS DRIVER | OUTPUT PROGRAMMABLE 20/36/50W | NON DIMMABLE

**Input voltage:** 220 - 240V  
**Constant current:** 150 ~ 500 /  
 300 ~ 1050 / 700 ~ 1500 mA  
**Power factor:** >0,9  
**Dimmable:** No

**IP Rate:** IP20  
**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-220	150 ~ 500 mA	20 Watt	24 - 54 Volt	97,2/157 x 43 x 30 mm
215-221	300 ~ 1050 mA	36 Watt	24 - 54 Volt	97,2/157 x 43 x 30 mm
215-222	700 ~ 1500 mA	50 Watt	24 - 54 Volt	97,2/157 x 43 x 30 mm

o))) SimpleSet

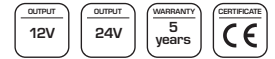
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### PROGRAMM YOUR PHILIPS DRIVER WITH SIMPLESET®

- Philips LED drivers (output programmable) can now be fast and easily programmed in any desired output with Philips latest technology: **SimpleSet®**.
- SimpleSet® is a certified interface tool that makes wireless configurability possible. All you need is a PC with unique Philips MultiOne software that uses NFC to create any desired output. With this technology, you now only need one LED driver that will suit multiple applications.
- No MultiOne software available?** Just let us know, we are more than happy to configure your SimpleSet® drivers. [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | T +31 (0) 413 330 380.

# Non Dimmable | Drivers & Controllers

## POWER SUPPLY | BLOCK TYPE | INDOOR 18 WATT | NON DIMMABLE



**Input voltage:** 220 - 240V  
**Output voltage:** 12/24V  
**Power factor:** >0,9  
**Dimmable:** No  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X W X H)
215-002	12 Volt	18 Watt	115 x 45 x 21 mm
215-006	24 Volt	18 Watt	115 x 45 x 21 mm



## POWER SUPPLY | SLIM TYPE | INDOOR 30/60/100/150W | NON DIMMABLE



**Input voltage:** 220 - 240V  
**Output voltage:** 12/24V  
**Power factor:** >0,9  
**Dimmable:** No  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X W X H)
215-005	12 Volt	30 Watt	251 x 30 x 16 mm
215-421	24 Volt	30 Watt	251 x 30 x 16 mm
215-422	24 Volt	60 Watt	305 x 30 x 17 mm
215-423	24 Volt	100 Watt	312 x 30 x 18,5 mm
215-424	24 Volt	150 Watt	335 x 30 x 21,5 mm
215-425	24 Volt	240 Watt	360 x 32 x 22,5 mm



## POWER SUPPLY | BLOCK TYPE | INDOOR NON DIMMABLE



**Input voltage:** 220 - 240V  
**Output voltage:** 12/24V  
**Power factor:** >0,95  
**Dimmable:** No  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X H X W)
215-009	12 Volt	40 Watt	166 x 52 x 24 mm
215-010	12 Volt	75 Watt	184 x 61 x 32 mm
215-011	12 Volt	150 Watt	210 x 67 x 34 mm
215-012	12 Volt	216 Watt	195 x 67 x 31 mm
215-013	12 Volt	264 Watt	215 x 78 x 35 mm
215-414	24 Volt	40 Watt	166 x 52 x 24 mm
215-403	24 Volt	75 Watt	184 x 61 x 32 mm
215-408	24 Volt	150 Watt	210 x 67 x 34 mm



# Drivers & Controllers | Non Dimmable

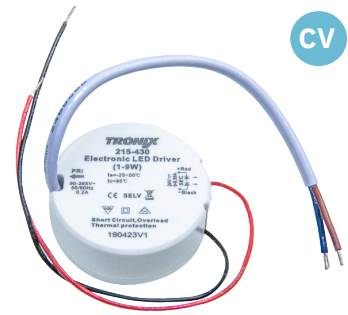
## POWER SUPPLY | 24V | 9 WATT | SMALL TYPE INDOOR | NON DIMMABLE

**Input voltage:** 90 - 265V  
**Output voltage:** 24V  
**Power factor:** >0,9  
**Dimmable:** No  
**IP Rate:** IP20

**Connection type:** Stripped wire  
**Isolation:** SELV  
**Ambient temperature:** -25°C / +50°C

OUTPUT 24V  
 WARRANTY 5 years  
 CERTIFICATE CE

CV



ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (D X H)
215-430	24 Volt	9 Watt	Ø 48 x 20 mm

## POWER SUPPLY | INDOOR | 4W NON DIMMABLE

**Input voltage:** 220 - 240V  
**Output voltage:** 12/24V  
**Power factor:** >0,55  
**Dimmable:** No

**IP Rate:** IP20  
**Connection type:** Stripped wire  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

OUTPUT 12V  
 OUTPUT 24V  
 WARRANTY 5 years  
 CERTIFICATE CE

CV



ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X W X H)
215-081	12 Volt	4 Watt	38 x 27 x 21 mm
215-082	24 Volt	4 Watt	38 x 27 x 21 mm

## POWER SUPPLY | INDOOR | 6W NON DIMMABLE

**Input voltage:** 220 - 240V  
**Output voltage:** 12/24V  
**Power factor:** >0,55  
**Dimmable:** No

**IP Rate:** IP20  
**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

OUTPUT 12V  
 OUTPUT 24V  
 WARRANTY 5 years  
 CERTIFICATE CE

CV



ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X W X H)
215-083	12 Volt	6 Watt	50 x 32 x 18,5 mm
215-084	24 Volt	6 Watt	50 x 32 x 18,5 mm

## POWER SUPPLY | OUTDOOR | 100/200/320 WATT NON DIMMABLE

**Input voltage:** 220 - 240V  
**Output voltage:** 12/24V  
**Power factor:** >0,9  
**Dimmable:** No

**IP Rate:** IP67  
**Connection type:** Stripped wire  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +40°C

OUTPUT 12V  
 OUTPUT 24V  
 IP RATE IP67  
 WARRANTY 5 years  
 CERTIFICATE CE

CV



ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X W X H)
215-315	12 Volt	100 Watt	191 x 70 x 40 mm
215-317	12 Volt	200 Watt	249 x 72 x 40 mm
215-316	24 Volt	100 Watt	249 x 72 x 40 mm
215-318	24 Volt	200 Watt	249 x 72 x 40 mm
215-319	24 Volt	320 Watt	252 x 90 x 44 mm



Bar and ceiling with Tronix RGB Led Strips, Diner café Veertien, Eersel - The Netherlands

# Drivers & Controllers | Triac Dimmable

## LED DRIVER | INDOOR | TRIAC DIMMABLE

**Input voltage:** 220 - 240V  
**Constant current:** 350/700 mA  
**Power factor:** >0,9  
**Dimmable:** Triac Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-379	350 mA	9 Watt	13 - 26 Volt	109 x 40 x 22 mm
215-380	350 mA	18 Watt	26 - 52 Volt	120 x 45 x 28 mm
215-279	700 mA	9 Watt	10 - 13 Volt	109 x 40 x 22 mm
215-280	700 mA	18 Watt	13 - 26 Volt	120 x 45 x 28 mm
215-281	700 mA	25 Watt	18 - 36 Volt	120 x 45 x 28 mm



## LED DRIVER | INDOOR | TRIAC DIMMABLE

**Input voltage:** 220 - 240V  
**Constant current:** 700/1050 mA  
**Power factor:** >0,95  
**Dimmable:** Triac Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-282	700 mA	40 Watt	28 - 56 Volt	166 x 52 x 24 mm
215-214	1050 mA	40 Watt	19 - 38 Volt	166 x 52 x 25 mm



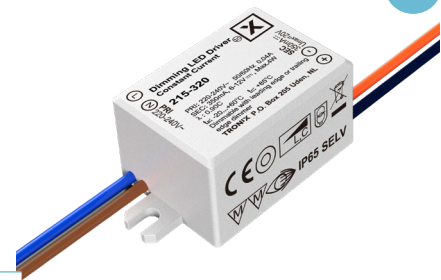
## LED DRIVER MINI | INDOOR | TRIAC DIMMABLE

**Input voltage:** 220 - 240V  
**Constant current:** 350/500/700 mA  
**Power:** 4 Watt  
**Power factor:** >0,9  
**Dimmable:** Triac Dimmable  
**IP Rate:** IP20

**Connection type:** Stripped wire  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-320	350 mA	4 Watt	6 - 12 Volt	38 x 27 x 21 mm
215-321	500 mA	4 Watt	4 - 8 Volt	38 x 27 x 21 mm
215-322	700 mA	4 Watt	2 - 6 Volt	38 x 27 x 21 mm
215-323	350 mA	6 Watt	9 - 17 Volt	38 x 27 x 21 mm
215-324	500 mA	6 Watt	6 - 12 Volt	38 x 27 x 21 mm
215-325	700 mA	6 Watt	4 - 9 Volt	38 x 27 x 21 mm





# Triac Dimmable | Drivers & Controllers

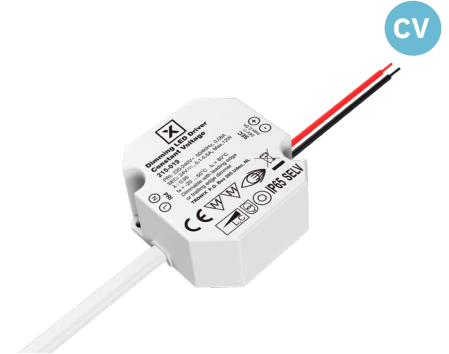
## POWER SUPPLY | 12/24V | 12 WATT TRIAC DIMMABLE



**Input voltage:** 220 - 240V  
**Output voltage:** 12/24V  
**Power factor:** >0,95  
**Dimmable:** Triac Dimmable  
**IP Rate:** IP20

**Connection type:** Stripped wire  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X W X H)
214-018	12 Volt	12 Watt	50 x 48 x 24 mm
215-019	24 Volt	12 Watt	50 x 48 x 24 mm



## POWER SUPPLY | 24V | INDOOR | 25 WATT TRIAC DIMMABLE



**Input voltage:** 220 - 240V  
**Output voltage:** 24V  
**Power factor:** >0,9  
**Dimmable:** Triac Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X W X H)
215-404	24 Volt	25 Watt	122 x 52 x 30 mm



## POWER SUPPLY | BLOCK TYPE | INDOOR 50/100W | TRIAC DIMMABLE



**Input voltage:** 220 - 240V  
**Output voltage:** 12/24V  
**Power factor:** >0,9  
**Dimmable:** Triac Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X W X H)
215-015	12 Volt	50 Watt	166 x 52 x 24 mm
215-016	12 Volt	100 Watt	210 x 67 x 34 mm
215-014	24 Volt	50 Watt	184 x 61 x 32 mm
215-003	24 Volt	100 Watt	210 x 67 x 34 mm



## POWER SUPPLY | 24V | OUTDOOR | 200 WATT TRIAC DIMMABLE



**Input voltage:** 220 - 240V  
**Output voltage:** 24V  
**Power factor:** >0,95  
**Dimmable:** Triac Dimmable  
**IP Rate:** IP67

**Connection type:** Stripped wire  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART. NR.	OUTPUT VOLTAGE	MAX. POWER	SIZE (L X H X W)
215-004	24 Volt	200 Watt	249 x 72 x 40 mm





Hallway at modern apartment with Tronix Trimless Spots and Triac dimmers.

# Triac Dimmable | Drivers & Controllers

## LED DIMMER UNIVERSAL | TRAILING EDGE 2-350W

Many different brands of plates can be fitted on this universal LED dimmer (plate excluded)

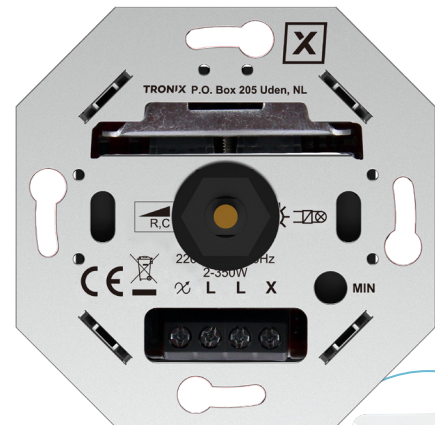


**Input voltage:** 220 - 240V

**Dimming method:** Trailing edge / Triac

**Power:** 2 - 350W

**IP rate:** IP20



215-132  
Plate for 215-131

ART. NR.	MIN.-MAX. LOAD	LENGTH	WIDTH	MOUNTING DEPTH
215-131	2 - 350 Watt	70 mm	70 mm	24 mm



## LED DIMMER DOUBLE | TRAILING EDGE 2X 2-100W

Including plate/cover frame and dimmer buttons



**Input voltage:** 220 - 240V

**Dimming method:** Trailing edge / Triac

**Power:** 2X 2 - 100W

**IP rate:** IP20



ART.NR.	MIN-MAX. LOAD	LENGTH	WIDTH	MOUNTING DEPTH
215-135	2X 2 - 100 Watt	71 mm	71 mm	27 mm

Cover and frame as pictured included. The dimmer is also suitable for other 55 mm frames from other brands

# Drivers & Controllers | Multi Dimmable

## LED DRIVER | 200~350mA | 8,4-10W | MULTI DIMMABLE INDOOR

Driver with 4 different dimming methods

**Input voltage:** 220 - 240V

**Constant current:** 200 mA ~ 350 mA

**Power factor:** >0,9

**Dimmable:** Dali / Push / Triac / 0/1-10V

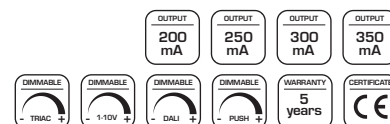
**IP Rate:** IP20

**Size (L x W x H)::** 104 x 53 x 30 mm

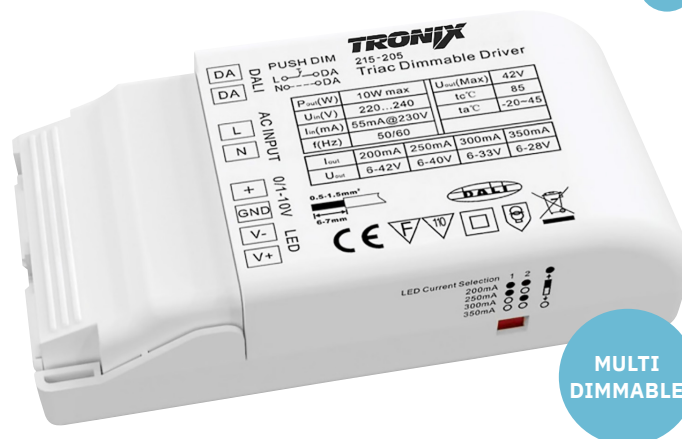
**Connection type:** Terminal block

**Isolation:** SELV

**Ambient temperature:** -20°C / +45°C



CC



MULTI DIMMABLE

ART.NR	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	DALI	PUSH	TRIAC	1-10V
215-205	200 ~ 350 mA	10 Watt	6 - 42 Volt	Yes	Yes	Yes	Yes

## Tronix LED Driver Multi Dimmable

What is so extraordinary about this Triac dim driver, is that it's designed for a large number of different interfaces, such as DALI, Push and Triac, as well as 0/1-10V dim interfaces. As a result, this driver is able to work with different operating systems.

### FEATURES:

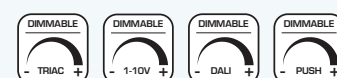
- Equipped with a combined output: an Amplitude dimming output (100% -10%) and a PWM dimming output (10% -1%).
- Power factor of >0.9, high efficiency >83%
- Very smooth dimming, back dimming possible up to 1% without flicker effect or buzzing sound.
- Automatic assignment of 1 Dali address by Dali masters.
- Complies with IEC 62386-101, IEC 62386-102, IEC 62386-207 standards.

## Tronix LED Driver Multi Dimmable

Het bijzondere aan deze Triac-dimdriver is dat deze is ontworpen met zowel DALI, Push en Triac, als 0/1-10V diminterfaces, en hierdoor met verschillende besturingssystemen kan werken.

### KENMERKEN:

- Voorzien van een gecombineerde uitgang: een Amplitude-dimuitgang (100% -10%) en een PWM-dimming uitgang (10% -1%).
- Power factor van >0.9, hoge efficiëntie >83%
- Zeer soepele dimming, terug dimmen tot 1% mogelijk zonder flikkereffect of zoemgeluid.
- Automatische toewijzing van 1 Dali-adres door Dali-masters mogelijk.
- Voldoet aan IEC 62386-101, IEC 62386-102, IEC 62386-207 normering.



# Multi Dimmable | Drivers & Controllers

## LED DRIVER | 180~1500MA | 8,6-50W | MULTI DIMMABLE INDOOR

Driver with 4 different dimming methods

**Input voltage:** 200 - 240V

**Constant current:** 180 ~ 1500mA

**Power factor:** >0,9

**Dimmable:** Dali / Push / Triac / 0/1-10V

**IP Rate:** IP20

**Size (L x W x H):** 164,6 x 83 x 34,5 mm

**Connection type:** Terminal block

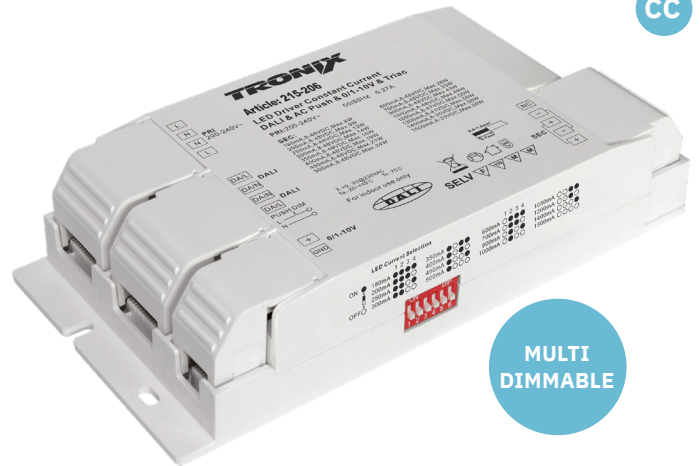
**Isolation:** SELV

**Ambient temperature:** -20°C / +45°C



OUTPUT  
180-1500  
mA

CC



ART.NR	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	DALI	PUSH	TRIAC	1-10V
215-206	180 ~ 1500 mA	50 Watt	8 - 48 Volt	Yes	Yes	Yes	Yes



**Looking for our latest product releases?** We keep continued focus on new product development and further extension of our range. Visit our website for a most actual overview.

**Op zoek naar onze allernieuwste producten?** We werken voortdurend aan nieuwe productontwikkeling en een verdere uitbreiding van ons assortiment. Bezoek onze website voor het meest actuele overzicht!



# Drivers & Controllers | 0/1-10V

## DIMMING MODULE | 700 mA | 0/1-10V

To dim constant current 700mA by 0/1-10 Volt



**Input voltage:** 12 - 36V

**IP rate:** IP20

**Connection type:** Terminal block



ART. NR.	POWER OUTPUT	MAX. CURRENT	DIMMING	SIZE (L X W X H)
214-137	16,8 Watt (24V)	700 mA	0/1-10V	115 x 36 x 21 mm

## DIMMING MODULE | 12-36V | 0/1-10V

To dim 12 - 36 constant voltage by 0/1-10 Volt



**Input voltage:** 12 - 36V

**IP rate:** IP20

**Connection type:** Terminal block



ART. NR.	POWER OUTPUT	MAX. CURRENT	DIMMING	SIZE (L X W X H)
214-136	192 Watt (24V)	1x 8000 mA	0/1-10V	115 x 36 x 21 mm

## RF TO 0/1-10V/PWM DIMMING MODULE | 20mA

To connect RF to 0/1-10V/PWM dimmable lamps or drivers



**Input voltage:** 100 - 240V

**IP Rate:** IP20

**Connection type:** Terminal block



RF TO  
0/1-10V



Use in combination with 214-145 or other remote controls and single color controllers.

ART. NR.	MAX. SWITCHING CAPACITY	DIMMING	SIZE (L X W X H)
214-179	1x 5000 mA	0/1-10V (max 20 mA)	170 x 59 x 29 mm

# 0/1-10V | Drivers & Controllers

## LED DRIVER | SOLODRIVE | 0/1-10V

SOLOdrive offers industry-best natural dimming to dark, with any dimmer, in any application, <0,1% dimming.



eldoLED® cc

**Input voltage:** 220 - 240V

**Power factor:** >0,95

**Dimmable:** 0/1-10V

**IP Rate:** IP20

**Connection type:** Terminal block

**Isolation:** SELV

**Ambient temperature:** -20°C / +50°C



Picture: 215-621

ART.NR.	TYPE	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-621	241/A	150 ~ 1050 mA	20 Watt	2 - 40 Volt	160 x 41,5 x 30,5 mm
215-622	361/A	150 ~ 1400 mA	30 Watt	2 - 55 Volt	210 x 40 x 33,5 mm
215-623	561/A	150 ~ 1400 mA	50 Watt	2 - 55 Volt	152,5 x 76,2 x 30,1 mm

## LED DRIVER | ECODRIVE | 0/1-10V

Programmable digital Ecodrive LED driver providing standard LED fixtures with the smoothest flicker-free dimming to 1% light output.



eldoLED® cc

**Input voltage:** 220 - 240V

**Power factor:** >0,95

**Dimmable:** 0/1-10V

**IP Rate:** IP20

**Connection type:** Terminal block

**Isolation:** SELV

**Ambient temperature:** -20°C / +50°C



Picture: 215-602

ART.NR.	TYPE	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-601	241/A	150 ~ 1050 mA	20 Watt	2 - 40 Volt	160 x 41,5 x 30,5 mm
215-602	361/A	150 ~ 1400 mA	30 Watt	2 - 55 Volt	210 x 40 x 33,5 mm
215-603	561/A	150 ~ 1400 mA	50 Watt	2 - 55 Volt	153 x 76,2 x 30,5 mm

## LED CONTROLLER | LINEARDRIVE | 0/1-10V

To dim 12V or 28V 0/1-10V - constant voltage.



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**Input voltage:** 12 - 28V

**IP rate:** IP20

**Connection type:** Terminal block



ART. NR.	TYPE	MAX. CURRENT	MAX. POWER	ZONES	OUTPUTS	SIZE (L X W X H)
214-354	211/D	8.000 mA	192 Watt	1	2	153 x 50 x 23 mm

# Drivers & Controllers | 0/1-10V

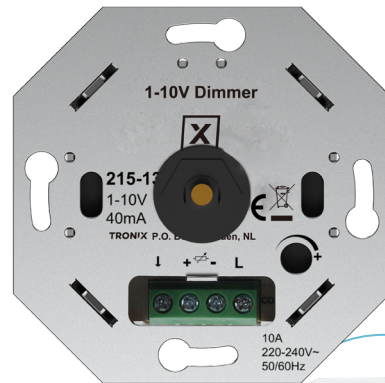
## LED DIMMER 0/1-10V | INDOOR | RECESSED

Many different brands of plates can be fitted on this universal 0/1-10V dimmer (plate excluded)



**Dimming method:** 0/1-10 Volt  
**IP Rate:** IP20  
**Length:** 83.5 mm  
**Width:** 83.5 mm  
**Height:** 44 mm  
**Connection type:** Terminal block  
**Material:** Aluminium

ART. NR.	DIMMING
215-133	0/1-10V



215-132  
Plate for 215-133



## Tronix universal LED dimmers: Perfectly stable

Every moment in the day asks for just that precise amount of light intensity and ambiance. Dimming LED can be done in many ways, provided that the LED dimmer and driver are a proper match with the light source.

### DIMMING WITHOUT PROBLEMS?

Then use our universal Tronix LED Dimmers, compatible with all major brands in switch materials. Make sure the light source stays within the power range of the LED Dimmer, and the total wattage of the light source 10% below the maximum power. Tronix universal Dimmers Triac, 1-10V or Dali, are dimming back to <10% and remain stable.

### FIND OUT MORE ABOUT LED DIMMING AND THE BEST CHOICE FOR YOUR APPLICATION?

We are happy to advise and assist you at [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | +31 (0)413 33 03 80

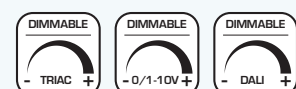
Elk moment van de dag vraagt om precies die juiste hoeveelheid licht en sfeer. Het dimmen van LED kan op vele manieren, mits de keuze van de LED dimmer én voeding zijn afgestemd op de lichtbron.

### PROBLEEMLOOS DIMMEN?

Gebruik dan onze universele Tronix LED Dimmers, compatibel met alle grote merken schakelmateriaal. Zorg ervoor dat de lichtbron binnen het wattagebereik van de dimmer blijft, en het liefst 10% onder het maximale vermogen. Tronix universele LED Dimmers Triac, 1-10V of Dali, dimmen terug tot <0% en blijven stabiel.

### MEER WETEN OVER HET DIMMEN VAN LED EN DE BESTE KEUZE VOOR UW TOEPASSING?

Wij helpen u graag verder op [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | +31 (0)413 33 03 80







0/1-10V controllable spot - 'the Jing' villa, Bali

# Drivers & Controllers | DALI

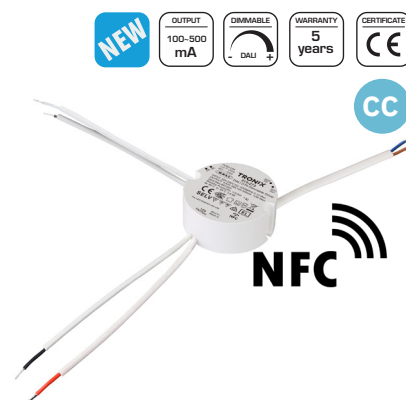
## LED DRIVER | DALI DIMMABLE | 10W | NFC

To dim 100-500mA max. 10W. mA adjustable with NFC.

**Input voltage:** 200 - 240V  
**Power factor:** >0,95  
**Dimmable:** Dali Dimmable  
**IP Rate:** IP20

**Connection type:** Stripped wire  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +60°C

ART.NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (D X H)
215-273	100 ~ 500 mA	10 Watt	3 - 42 Volt	Ø 57 x 24 mm



## LED DRIVER | DALI DIMMABLE | 12W

To dim 100-700mA max. 12W

**Input voltage:** 200 - 240V  
**Power factor:** >0,95  
**Dimmable:** Dali Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +45°C

ART.NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-272	100 ~ 700 mA	12 Watt	6 - 52 Volt	135 x 35 x 20 mm



## PHILIPS DRIVER | DALI DIMMABLE | 20/36W

Output programmable LED driver via Philips SimpleSet

**Input voltage:** 220 - 240V  
**Power factor:** >0.90  
**Dimmable:** Dali Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART.NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-266	150 ~ 500 mA	20 Watt	24 - 54 Volt	97,2/157 x 43 x 30 mm
215-265	300 ~ 1050 mA	36 Watt	24 - 54 Volt	97,2/157 x 43 x 30 mm



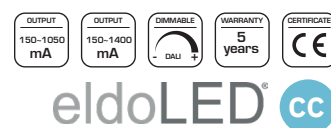
## LED DRIVER | SOLODRIVE | DALI

SOLOdrive offers industry-best natural dimming to dark, with any dimmer, in any application, <0,1% dimming.

**Input voltage:** 220 - 240V  
**Power factor:** >0,95  
**Dimmable:** Dali Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C

ART.NR.	TYPE	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-268	240/A	150 ~ 1050 mA	20 Watt	2 - 40 Volt	160 x 41,5 x 30,5 mm
215-625	360/A	150 ~ 1050 mA	30 Watt	2 - 55 Volt	210 x 40 x 33,5 mm
215-271	560/A	150 ~ 1400 mA	50 Watt	2 - 55 Volt	152,5 x 76,2 x 30,1 mm



Picture: 215-628

# DALI | Drivers & Controllers

## LED DRIVER | ECODRIVE | DALI

Programmable digital Ecodrive LED driver providing standard LED fixtures with the smoothest flicker-free dimming to 1% light output.

**Input voltage:** 220 - 240V  
**Power factor:** >0,95  
**Dimmable:** Dali Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



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Picture: 215-267

ART.NR.	TYPE	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-267	240/A	150 ~ 1050 mA	20 Watt	2 - 40 Volt	160 x 41,5 x 30,5 mm
215-605	360/A	150 ~ 1400 mA	30 Watt	2 - 55 Volt	210 x 40 x 33,5 mm
215-606	560/A	150 ~ 1400 mA	50 Watt	2 - 55 Volt	153 x 76,2 x 30,5 mm

## LED DRIVER | DUALDRIVE | DALI

DUALdrive with two independently programmable outputs for tuneable white fixtures.

**Input voltage:** 220 - 240V  
**Power factor:** >0,95  
**Dimmable:** Dali Dimmable  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



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Use with 214-232 for Casmbi controllable 'Human Centric Lighting'

ART.NR.	TYPE	DALI TYPE	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-641	20MA-E2Z0D	DT6	150 ~ 1050 mA	20 Watt	2 - 40 Volt	183,4 x 41,3 x 30 mm
215-642	20MA-E2Z0C	DT8	150 ~ 1050 mA	20 Watt	2 - 40 Volt	183,4 x 41,3 x 30 mm
215-646	560/A	DT6	150 ~ 1400 mA	50 Watt	2 - 55 Volt	152 x 76,2 x 30,1 mm
215-269	562/A	DT8	150 ~ 1400 mA	50 Watt	2 - 55 Volt	152 x 76,2 x 30,1 mm

## Incredibly stable dimming eldoLED®

eldoLED drivers eliminate any perceptible flicker (it even has a patent for it) and are incredibly reliable, stable dimmers.

And that's not all, because eldoLED drivers boast an array of other excellent features:

- Stable dimming range (especially at the low end of the range, down to 0.1%)
- Ignorable inrush current, lower than the rated current
- Total Harmonic Dissonance (THD) <20% during dim.
- Adjustable dimming curve (logarithmic, linear, soft linear or square)
- HD TV Studio Camera Compatible

**More information?** Contact us for custom-made advice.

eldoLED drivers eliminieren iedere waarneembare flikkering en zijn ongekend betrouwbaar in stabiel dimmen.

Daarnaast blinken de eldoLED drivers uit door onder andere:

- Stabiel dimbereik (vooral in het lage gebied tot 0.1%)
- Verwaarloosbare inschakelstroom, lager dan nominaalstroom
- Totale Harmonische Vorming <20% tijdens dimmen
- Instelbare dimcurve (logaritmisch, linear, soft linear of square)
- Geschikt voor HD TV camera studio's

**Meer weten?** Neem contact met ons op voor advies op maat. [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | +31 (0)413 33 03 80

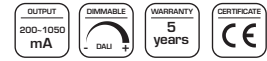
# Drivers & Controllers | DALI

## LED DRIVER | POWER DRIVE | 600W

The POWERdrive 6060/R integrates 32 drivers into one, which can be controlled via DMX, DALI or 0-10V. You can install up to 32 fixtures (1-32 (DMX), 1-4 (DALI), 1 (0-10V) on the POWERdrive 6060/R, making this an extremely “clean”, professional choice.

**Input voltage:** 120 - 230V  
**Power factor:** >0,9  
**Dimmable:** Dali/DMX/0-10V  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



eldoLED® CC



ART.NR.	TYPE	DALI TYPE	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-685	PW6060R1	DT6	200 ~ 1050 mA	600 Watt	2 - 55 Volt	482,6 x 325 x 44,5 mm

## CONTROLLER | LINEARDRIVE | DALI

To dim 12V or 24V DALI fixtures or ledstrips

**Input voltage:** 12 - 24V  
**IP rate:** IP20  
**Connection type:** Terminal block



eldoLED® CV



ART. NR.	TYPE	DALI TYPE	MAX. CURRENT	MAX. POWER (24V)	ZONES	OUTPUTS	SIZE (L X W X H)
214-351	210/D1	DT6	8.000 mA	192 Watt	1	2	153 x 50 x 23 mm
214-350	720/D	DT6	24.000 mA	720 Watt	4	4	153 x 50 x 23 mm
214-355	220/D	DT6	8000 mA	192 Watt	2	2	153 x 30 x 23 mm
214-356	200D-D2Z2C	DT8	8000 mA	192 Watt	2	2	153 x 50 x 23 mm
214-357	200D-D2Z2D	DT6	8000 mA	192 Watt	2	2	153 x 50 x 23 mm

## CONTROLLER | LINEARDRIVE | DALI/DMX

To dim 220 - 240V DALI/DMX fixtures

**Input voltage:** 120 - 250V  
**IP rate:** IP20  
**Connection type:** Terminal block



eldoLED® CV



ART. NR.	TYPE	DALI TYPE	MAX. CURRENT	MAX. POWER (24V)	ZONES	OUTPUTS	SIZE (L X W X H)
214-352	100/A	DT6	4000 mA	96 Watt	4	4	388 x 42 x 30 mm

## CONTROLLER | MULTI ADDRESS | DALI

Compatible with DALI/push, this constant voltage LED driver offers the ability to create color or dynamic shows without an external controller.

**Input voltage:** 12 - 36V  
**IP rate:** IP20  
**Connection type:** Terminal block



CV



ART. NR.	DALI TYPE	MAX. CURRENT	MAX. POWER	ZONES	OUTPUTS	SIZE (L X W X H)
214-190	DT6/8	5.000 mA	5x 120 Watt (24V)	1	5	170 x 59 x 29 mm

# DALI | Drivers & Controllers

## DIMMING MODULE | 12-36V | DALI

To dim 12 - 36V DALI fixtures

**Input voltage:** 12 - 36V

**IP rate:** IP20

**Connection type:** Terminal block



CV



ART. NR.	MAX. CURRENT	MAX. POWER	DIMMING	SIZE (L X W X H)
214-156	1x 8000 mA	192 Watt (24V)	DALI/push dim	95 x 36 x 21 mm

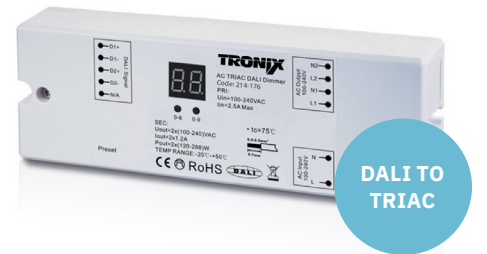
## DIMMING MODULE | 230V | DALI

To connect DALI to Triac controllable lamps.

**Input voltage:** 100 - 240V

**IP rate:** IP20

**Connection type:** Terminal block



ART. NR.	MAX. CURRENT	MAX. POWER	DIMMING	SIZE (L X W X H)
214-176	2x 1200 mA	2x 288 Watt	DALI	170 x 59 x 29 mm

DALI TO TRIAC

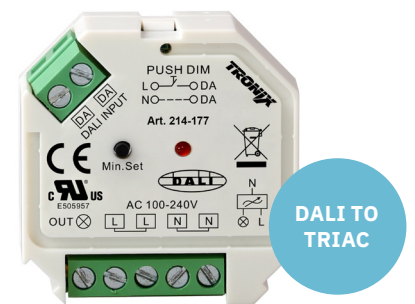
## DIMMING MODULE | 230V | DALI

To connect DALI to Triac controllable lamps.

**Input voltage:** 100 - 240V

**IP rate:** IP20

**Connection type:** Terminal block



ART. NR.	MAX. CURRENT	MAX. POWER	DIMMING	SIZE (L X W X H)
214-177	1x 1800 mA	200 Watt	DALI/push dim	45,5 x 45 x 20,3 mm

DALI TO TRIAC

## LED DIMMER DALI | INDOOR | RECESSED

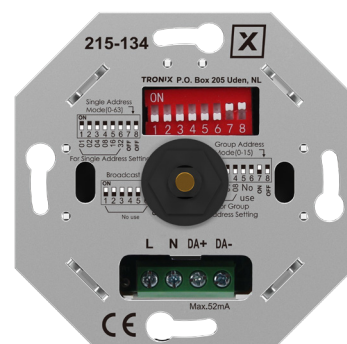
Many different brands of plates can be fitted on this universal DALI dimmer (plate excluded).

**Dimming method:** Dali

**IP Rate:** IP20

**Connection type:** Terminal block

**Material:** Aluminium



ART. NR.	DIMMING	SIZE (L X W X H)
215-134	Dali	83,5 x 83,5 x 44 mm

215-132  
Plate for 215-134

## CASAMBI RELAY | 2X10A | RECESSED

With this Casambi relay you are able to safely switch low currents to high powers (on/off).

**Input voltage:** 130 - 240V  
**Max. current:** 2x 10A  
**IP rate:** IP20  
**Connection type:** Terminal block



ART. NR.	POWER OUTPUT	SIZE (L X W X H)
214-216	2x 2400 Watt (240V)	71 x 56 x 31 mm

## PHILIPS DRIVER | OUTPUT PROGRAMMABLE | 20W/36W CASAMBI

**Input voltage:** 220 - 240V  
**Constant current:** 150 ~ 500 / 300 ~ 1050 mA  
**Power factor:** >0,9  
**Dimmable:** Yes

**IP Rate:** IP20  
**Connection type:** Terminal block  
**Isolation:** SELV  
**Ambient temperature:** -20°C / +50°C



CASAMBI



ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-295	150 ~ 500 mA	8,1 - 20 Watt	24 - 54 Volt	92,2 x 43 x 30 mm
215-296	300 ~ 1050 mA	16,2 - 36 Watt	24 - 54 Volt	97,2 x 43 x 30 mm



## CASAMBI Easy Modern Light Control

Casambi is an advanced light system based on Bluetooth low energy and the only wireless low power technology that is used in all modern smartphones, tablets and even smart watches. It is a winning, user-friendly solution with minimal hardware and low implementation costs.

The free Casambi app works as a user interface in Casambi systems, both as a configuration tool and a gateway. How it works? Just turn on bluetooth on your (mobile) device and start controlling your lights! Turn them on or off, pre-set your favorite RGB color, adjust the light color and intensity for just that right ambiance, and choose different lighting setting for different areas at the same time. Easy as that!

**More information?** Contact us for custom-made advice.

CASAMBI



\*Casambi User Guide

Casambi is een geavanceerd lichtstelsel op basis van Bluetooth met de enige draadloze low power technologie die wordt toegepast in smart phones, tablets en zelfs smart watches. Het is een winnende, gebruiksvriendelijke oplossing, met minimale hardware- en implementatiekosten.

De gratis Casambi-app werkt als een gebruikersinterface in het Casambi-systeem, zowel als configuratie tool en als gateway. En nu komt het mooiste: dit systeem communiceert ook met IOS en Android apparaten! Hoe het werkt? Zet gewoon Bluetooth aan op je device en begin met het besturen van je verlichting! Zet 'm aan of uit, stel je favoriete RGB kleur in, pas de lichtkleur en intensiteit aan op de perfecte ambiance, en kies verschillende light settings voor verschillende ruimtes op hetzelfde moment. Zo makkelijk is het!

**Meer weten?** Neem contact met ons op voor advies op maat. [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | +31 (0)413 33 03 80

## CASAMBI RECEIVER | 230V | 300W

Dimmer for flush-mounted boxes. Surface model: 214-206

**Input voltage:** 220 - 240V  
**Max. current:** 1250 mA  
**IP rate:** IP20  
**Connection type:** Terminal block



CASAMBI



ART. NR.	MAX. POWER	SIZE (L X W X H)
214-208	300 Watt	51,1 x 47,5 x 31 mm

## CASAMBI RECEIVER | 230V | 150W

Dimmer for mains voltage.

**Input voltage:** 85 - 240V  
**Max. current:** 430 mA  
**IP rate:** IP20  
**Connection type:** Terminal block



CASAMBI



ART. NR.	MAX. POWER	SIZE (L X W X H)
214-206	100 Watt	75 x 38 x 22 mm

## CASAMBI RECEIVER | 230V | 100W

Dimmer for ceiling boxes. Surface model: 214-206

**Input voltage:** 85 - 240V  
**Max. current:** 430 mA  
**IP rate:** IP20  
**Connection type:** Terminal block



CASAMBI



ART. NR.	MAX. POWER	SIZE (L X W X H)
214-207	100 Watt	75 x 38 x 22 mm

## CASAMBI RECEIVER | 12-24V | 52-422W

For 1-4 channels tuneable white, RGB, RGBW

**Input voltage:** 12 - 48V  
**Max. current:** 4x 4300 mA (12/24V) 4x 2150 mA (48V)  
**IP rate:** IP20  
**Connection type:** Terminal block



CASAMBI



ART. NR.	MAX. POWER	SIZE (L X W X H)
214-209	4x 100 Watt (24V)	113 x 62 x 72 mm

## CASAMBI RECEIVER | 12-24V | 72-144W

Suitable for 1-4 channels RGB, RGBW, CCT

**Input voltage:** 12 - 24V  
**Max. current:** 4x 1500 mA  
**IP rate:** IP20  
**Connection type:** Terminal block



CASAMBI



ART. NR.	MAX. POWER	SIZE (L X W X H)
214-205	144 Watt (24V)	73 x 30 x 13 mm

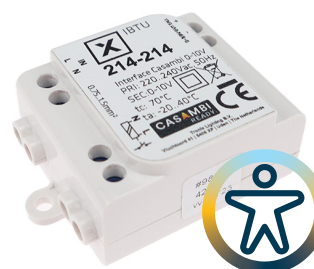
## CASAMBI CONTROLLER | 0-10V / DALI

For adjusting 0-10V / DALI single color fixtures with Casambi.

**Input voltage:** 110 - 240V  
**Output:** 0-10V / DALI  
**Max. switching current:** 7000 mA (240V: 1680W)  
**IP rate:** IP20  
**Connection type:** Terminal block



CASAMBI



ART. NR.	POWER OUTPUT	SIZE (L X W X H)
214-214	0-10V / DALI	56,6 x 35,8 x 22,6 mm

## CASAMBI CONTROLLER | 0-10V / DALI

For adjusting 0-10V / DALI single color fixtures with Casambi.

**Input voltage:** 110 - 240V  
**Output:** 0-10V / DALI  
**Max. switching current:** 7000 mA (240V: 1680W)  
**IP rate:** IP65  
**Connection type:** Stripped wire



CASAMBI



ART. NR.	POWER OUTPUT	SIZE (L X W X H)
214-215	0-10V / DALI	71 x 56 x 31 mm



## CASAMBI SENSOR | MOTION + LIGHT BLACK & WHITE



CASAMBI

**Input voltage:** 220 - 240V  
**IP rate:** IP44 (front)  
**Size:** 73 x Ø38 (Ø25 mm mounting hole)  
**Connection type:** Stripped wire



ART. NR.	HOUSING COLOR	MAX. LOAD	DETEC. RADIUS	DETEC. RANGE	MOUNTING HEIGHT
214-202	○ White	64 zones	100°	max. 7 meter	3 meter
214-203	● Black	64 zones	100°	max. 7 meter	3 meter

## CASAMBI WALL SWITCH

With electrodynamic energy generator (no battery required). Supplied with frame 'Opus 55 inform', but can be replaced with other 55x55 mm switch series.



CASAMBI

**IP rate:** IP20  
**Size:** 81 x 81 x 14 mm



ART. NR.	SWITCH	MAX. LOAD	RANGE
214-204	Single	2 zones	<10 meter
214-199	Double	4 zones	<10 meter

## BLUETOOTH | CASAMBI MODULE

This Casambi module makes all eldoLED ECOdrive, SOLOdrive and DUALdrive Casambi ready. Can be named and mapped in the Casambi application.



CASAMBI  
eldoLED®

**Input voltage:** 4 - 6,5V  
**IP rate:** IP20



ART. NR.	SUITABLE FOR	SIZE (L X W X H)
214-231	ECOdrive, SOLOdrive	73,2 x 19 x 13 mm
214-232	DUALdrive	73,2 x 19 x 13 mm

# Drivers & Controllers | Dimmit

## DIMMIT BT 0/1-10V | DALI DT6/DT8 DIMMING MODULE

Dimmit (bluetooth) to Dali / 0/1-10V.



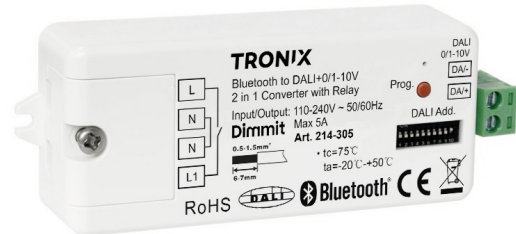
**Dimmit**

**Input voltage:** 110 - 240V

**Max. switching current:** 1x 5000 mA

**IP rate:** IP20

**Connection type:** Terminal block



ART. NR.	MAX. SWITCHING CURRENT	DIMMING	SIZE (L X W X H)
214-305	1x 5000 mA	0/1-10V / DALI	95 x 37 x 20 mm

## DIMMIT WIFI+RF RECEIVER | 12-24V

RGBTW/RGBW/RGB/TW



**Dimmit**

**Input voltage:** 12 - 24V

**Max. current:** 5x 4.000 mA

**IP rate:** IP20

**Connection type:** Terminal block



Combine with any RGB(W or TW) remote control on P.39

ART. NR.	MAX. POWER	SIZE (L X W X H)
214-315	5x 96 Watt (24V)	145 x 46,5 x 16 mm

## DIMMIT | WIFI RECEIVER | 100-240V PHASE-CUT DIM | RECESSED

Suitable for 86x86 mm wall boxes and can be operated with a standard/universal push button, or can be controlled with the Dimmit app.



**Dimmit**

**Input voltage:** 100 - 240V

**IP rate:** IP20

**Connection type:** Terminal block



ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X W X H)
214-300	1800 mA	200 Watt	45,5 x 45 x 20,3 mm



## Dimmit by Tronix: the all-in-one app for smart lighting control

**Dimmit by Tronix is an all-in-one app that allows you to control all your smart lighting, dimmers and other smart products. Dimmit is compatible with all your existing smart lighting and voice controllers such as Alexa or Homey.**

Changing the colour of your lighting? Accurate dimming? Setting Scenes? These features are pretty standard nowadays. That's why Dimmit does more. You can link events to actions. Do you want your outdoor lights to switch on an hour before sunset every day? What about having the light colour in your living room change as soon as outdoor temperatures start to drop? Or having your lights switched on automatically while you're on holiday? You name it, Dimmit does it.

Dimmit products can be taught in directly into the Dimmit app without an external gateway or bridge.

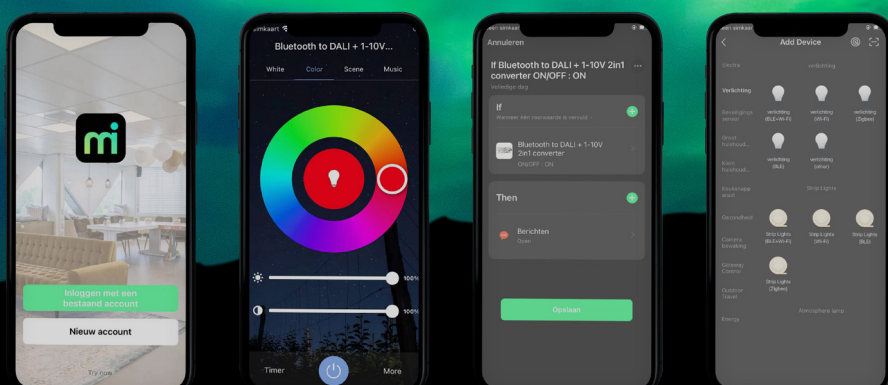
More information about Dimmit and the possibilities? Contact us.

**Dimmit by Tronix is een all-in-one-app, waarmee je al je smart verlichting, dimmers en andere smart producten bedient. Aan te sluiten op al je bestaande smart-verlichting en compatible met spraak gestuurde controllers als Alexa of Homey.**

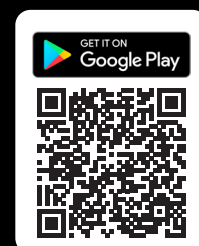
De kleur van je verlichting veranderen? Nauwkeurig dimmen? Scenes bepalen? Als gebruiker is dat vanzelfsprekend. Daarom gaat Dimmit verder. Je combineert gebeurtenissen aan acties. Wil je dat iedere dag een uur voor zonsondergang je buitenverlichting inschakelt? Dat de lichtkleur van de lampen in je woonkamer verandert zodra het buiten kouder wordt? Dat je verlichting automatisch inschakelt tijdens je vakantie? You name it, Dimmit does it.

Dimmit artikelen kunnen direct in de Dimmit app ingeleerd worden zonder externe gateway of bridge.

Meer weten over Dimmit en de mogelijkheden? Neem contact met ons op [sales@tronixlighting.com](mailto:sales@tronixlighting.com) +31 (0)413 33 03 80



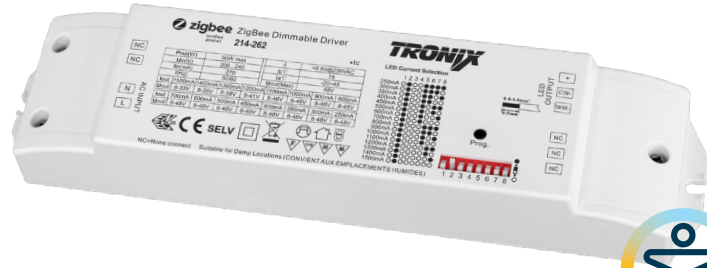
Full experience with Dimmit controlling components. More will be added to the product range soon!



## ZIGBEE DRIVER | 50W | 250~1000 MA | TUNEABLE WHITE

Suitable for 2 channels, Tuneable white.

- Input voltage:** 200 - 240V
- Constant current:** 250 mA ~ 1000 mA
- Power factor:** >0.9
- Dimmable:** Yes
- IP Rate:** IP20
- Connection type:** Terminal block
- Isolation:** SELV
- Ambient temperature:** -20°C / +45°C



ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
214-262	250~1000 mA	50 Watt	8 - 52 Volt	210 x 50 x 32 mm



## ZigBee® Limitless control system

ZigBee is a communication protocol that can connect smart devices with each other, creating a so-called 'mesh' network. ZigBee is smart, safe and has a low energy consumption.

The difference with other protocols is that ZigBee not only communicates with one central point, but ZigBee modules can also communicate with each other. This increases the range and allows them to take over each other's function. Each ZigBee module has a repeater that makes it possible to also return a signal. This could be handy when motion is detected and no one is at home. ZigBee can communicate with Hue, Alexa and Homey.

**More information?** Contact us for custom-made advice.



ZigBee is een communicatieprotocol wat slimme apparaten met elkaar in verbinding kan zetten. Een zogenoemd 'mesh' netwerk. ZigBee is slim, veilig en heeft een laag energieverbruik.

Het verschil met andere protocollen is, dat ZigBee niet alleen in contact staat met een centraal punt, maar ZigBee modules ook onderling met elkaar. Hierdoor wordt het bereik vergroot, en kunnen ze elkaars functie overnemen. Elke ZigBee module heeft een repeater waardoor een signaal ook terug gestuurd kan worden. Handig als er niemand thuis is, en er wordt bijvoorbeeld beweging gedetecteerd. ZigBee kan communiceren met o.a. Hue, Alexa en Homey.

**Meer weten?** Neem contact met ons op voor maatadvies [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | +31 (0)413 33 03 80



## ZIGBEE DRIVER | 12/25W | 100~700/250~700 MA | NFC

Dimmable driver with NFC for adjustable mA.



- Input voltage:** 200 - 240V
- Constant current:** 100 ~ 700 / 250 ~ 700 mA
- Power factor:** >0.97
- Dimmable:** Yes
- IP Rate:** IP20
- Connection type:** Terminal block
- Isolation:** SELV
- Ambient temperature:** -25°C / +45°C



ART. NR.	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
214-260	100~700 mA	12 Watt	6 - 42V	135 x 35 x 20 mm
214-261	250~700 mA	25 Watt	6 - 54V	120 x 41 x 28 mm

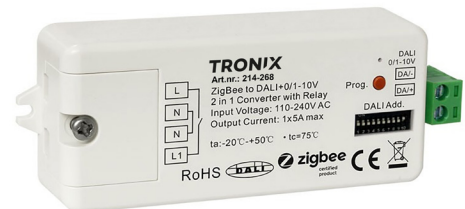
## ZIGBEE | 0/1-10V / DALI DT6/DT8 | DIMMING MODULE

Converts a ZigBee signal output to a DALI DT6/DT8 or 0/1-10V output.



- Input voltage:** 110 - 240V
- IP rate:** IP20
- Connection type:** Terminal block

ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X H X W)
214-268	2000 mA	50 Watt	80 x 36 x 20,5 mm



## NFC NFC app for adjustable mA

It is now possible to set the amperage of selected drivers by using NFC. This can be easily done with the so called 'SR NFC app' on a mobile phone.

Make it easy and adjust the required amperage yourself at your workplace. Ordered the wrong driver again, or always have the right driver within reach? NFC adjustable drivers are the answers. Install the 'SR NFC app' and set the right amperage with one click via NFC.

**More information?** Contact us for custom-made advice.

Het is nu mogelijk om bij geselecteerde drivers het amperage in te stellen met NFC. Dit kan eenvoudig met 'SR NFC app' op een mobiele telefoon.

Maak het jezelf gemakkelijk en stel zelf op je werkplek het gewenste amperage in. Toch weer een verkeerde driver besteld, of altijd een juiste driver in huis hebben? Dat kan met deze NFC instelbare drivers. Installeer de 'SR NFC app' en stel met één klik via NFC de juiste amperage in.

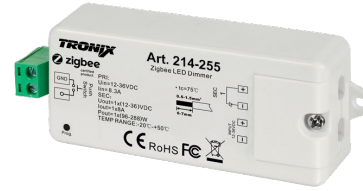
**Meer weten?** Neem contact met ons op voor maatadvies [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | +31 (0)413 33 03 80

## ZIGBEE RECEIVER | 12-36V | 8A

**Input voltage:** 12 - 36V  
**IP rate:** IP20  
**Connection type:** Terminal block



ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X H X W)
214-255	8000 mA	192 Watt (24V)	95 x 37 x 20 mm



## ZIGBEE RECEIVER | 12-48V | 20A

Suitable for 1-5 channels, RGB+TW/RGBW/RGB/TW

**Input voltage:** 12 - 48V  
**IP rate:** IP20  
**Connection type:** Terminal block



ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X W X H)
214-257	5 x 8000 mA	960 Watt (24V)	170 x 59 x 29 mm



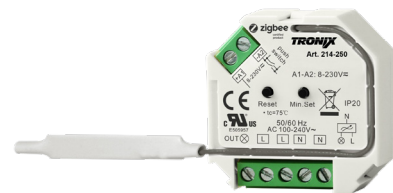
## ZIGBEE RECEIVER | 100-240V PHASE-CUT DIM | RECESSED

Suitable for 86x86 mm wall boxes and can be operated with a standard/universal push button, a ZigBee remote control or a gateway as Homey.

**Input voltage:** 100 - 240V  
**IP rate:** IP20  
**Connection type:** Terminal block



ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X W H X)
214-250	1800 mA	200 Watt	45,5 x 45 x 20,3 mm



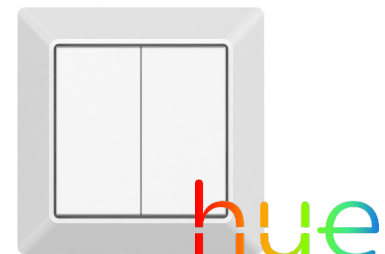
## ZIGBEE | DOUBLE SWITCH | FRIENDS OF HUE

The switch can be configured via the Hue app and can both turn Hue lights on/off and dim (10-30m). Can be mounted directly on the wall with 3M, or screws (included).

**Battery:** CR2430  
**IP rate:** IP20  
**Connection type:** n/a



ART. NR.	BUTTON	SIZE (L X W H)
214-270	4	80,5 x 80,5 x 14,7 mm



### ZIGBEE | ROTARY SWITCH | RGB+TW/RGBW/RGB/TW/SC

This 4 in 1 dimmer can be configured via HUE or Homey app and controls up to 30 lamps. The rotary knob can dim, adjust light colors, and switching on/off. Can be mounted directly onto the wall with 3M, or screws (included).

**Battery:** 1x CR2450

**IP rate:** IP20



ART. NR.	ZONES	LENGTH	WIDTH	HEIGHT
214-271	1 (30 lamps)	80,5 mm	80,5 mm	29,2 mm

### ZIGBEE | REMOTE CONTROL | SINGLE COLOR

Can control up to 4 groups at a distance up to 30 meters and can control up to 30 ZigBee devices.

**Battery:** 3x AAA (excluded)

**IP rate:** IP20



ART. NR.	ZONES	LENGTH	WIDTH	HEIGHT
214-277	4	120 mm	55 mm	17 mm

### ZIGBEE | REMOTE CONTROL | TUNEABLE WHITE

Can control up to 4 groups at a distance up to 30 meters and can control up to 30 ZigBee devices.

**Battery:** 3x AAA (excluded)

**IP rate:** IP20



ART. NR.	ZONES	LENGTH	WIDTH	HEIGHT
214-276	4	120 mm	55 mm	17 mm

### ZIGBEE | REMOTE CONTROL | RGB+TW/RGBW/RGB

Can control up to 4 groups at a distance up to 30 meters and can control up to 30 ZigBee devices.

**Battery:** 3x AAA (excluded)

**IP rate:** IP20



ART. NR.	ZONES	LENGTH	WIDTH	HEIGHT
214-275	4	120 mm	55 mm	17 mm

# Drivers & Controllers | Dimmers - Low Voltage

## LED DIMMER 12-24V | 8A

To use between power supply and LED fixture

**Input voltage:** 12 - 24V

**IP Rate:** IP20

**Connection type:** Terminal block



ART. NR.	MAX. POWER	SIZE (L X W X H)
214-118	192 Watt (24V)	90 x 60 x 60 mm

## BY PASS

Usable with a 2-wire dimmer or switch without a 0 (neutral) wire. The by pass ensures that LED's do not flicker and/or glow.

**Input voltage:** 100 - 240V

**IP Rate:** IP20

**Connection type:** Stripped wire



ART. NR.	POWER CONSUMPTION	MAXIMUM POWER	SIZE (L X W X H)
214-999	<1,4 Watt	N.A.	25 x 20 x 10 mm

## MEANWELL | ICL-16L | AC LINEAR INRUSH CURRENT LIMITER

Can be used to reduce the high starting current due to load causing the circuit breaker to be false triggered.

**Input voltage:** 180 - 264V

**IP Rate:** IP20

**Connection type:** Terminal block



ICL-16L



ART. NR.	POWER CONSUMPTION	MAXIMUM POWER	SIZE (L X W X H)
214-950	<1,5 Watt	3680 Watt	90 x 35 x 58,4 mm





WORST - BAL

SANDWICHES



Light boxes with RGBWW Led Strips and Controllers, FC Utrecht stadium - The Netherlands

# Drivers & Controllers | Controllers Single Color



**ART. NR.** 214-173  
**DIMMING** Switch / Turn  
**SIZE** 96 x 65 x 74 mm  
**BATTERY** included  
**RANGE** <20 meter  
**ZONES** 1



**ART. NR. GREY** 214-130  
**ART. NR. WHITE** 214-134  
**DIMMING** Push and hold  
**SIZE** Ø32 mm x 10 mm  
**BATTERY** included  
**RANGE** <20 meter  
**ZONES** 1



**ART. NR.** 214-146  
**DIMMING** Touch Slide  
**SIZE** 35 x 141 x 8,5 mm  
**BATTERY** included  
**RANGE** <20 meter  
**ZONES** 1



**ART. NR.** 214-131  
**DIMMING** Push and hold  
**SIZE** 136,3 x 38,9 x 10,7 mm  
**BATTERY** included  
**RANGE** <20 meter  
**ZONES** 5

Real glass



**ART. NR. WHITE** 214-144  
**ART. NR. BLACK** 214-186  
**DIMMING** Push and hold  
**SIZE** 86 x 86 x 13,8 mm  
**BATTERY** included  
**RANGE** <20 meter  
**ZONES** 1  
**MATERIAL** Real glass finishing

Real glass



**ART. NR.** 214-145  
**DIMMING** Switch / Turn  
**SIZE** 86 x 86 x 27 mm  
**BATTERY** included  
**RANGE** <20 meter  
**ZONES** 1  
**MATERIAL** Real glass finishing

Real glass



**ART. NR.** 214-152  
**DIMMING** RF wireless, push remote  
**SIZE** 86 x 86 x 13,8 mm  
**BATTERY** included  
**RANGE** <20 meters  
**ZONES** 2  
**MATERIAL** Real glass finishing

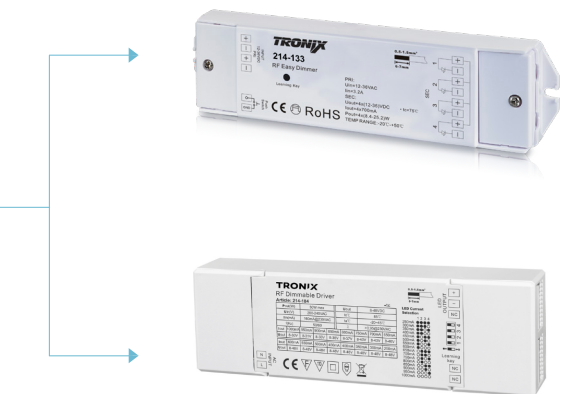
## MAIN VOLTAGE:



## CONSTANT VOLTAGE:



## CONSTANT CURRENT:



All above constant voltage and constant current controllers require a 12V or 24V power supply and can be controlled with a maximum of 8 remote controls.

# Controllers Single Color | Drivers & Controllers

<b>ART.NR</b>	214-174
<b>INPUT VOLT.</b>	100 - 240V AC
<b>MAX. CURRENT</b>	1 x 0,68 Ampere
<b>MAX. LOAD</b>	1 x 100 Watt
<b>SIZE</b>	Ø46,5 x 19,5 mm
<b>DIMMABLE</b>	No
<b>ART.NR</b>	214-158
<b>INPUT VOLT.</b>	220 - 240V
<b>MAX. CURRENT</b>	1 x 0,45 Ampere
<b>MAX. LOAD</b>	1 x 100 Watt
<b>SIZE</b>	Ø46,5 x 19,5 mm
<b>DIMMABLE</b>	Yes
<b>ART.NR</b>	214-151
<b>INPUT VOLT.</b>	240V AC
<b>MAX. CURRENT</b>	2 x 1,2 Ampere
<b>MAX. LOAD</b>	2 x 288 Watt
<b>SIZE</b>	170 x 59 x 30 mm
<b>DIMMABLE</b>	Yes

To control constant main voltage dimmable LED application (for example LED GU10 lamps)



<b>ART.NR</b>	214-147
<b>INPUT VOLT.</b>	12-36 Volt
<b>MAX. CURRENT</b>	1 Channel x 8 Ampere max.
<b>MAX. LOAD</b>	96 Watt (12V) / 192 Watt (24V) / 288 Watt (36V)
<b>SIZE</b>	101 x 36 x 21 mm
<b>DIMMABLE</b>	Yes
<b>ART.NR</b>	214-132
<b>INPUT VOLT.</b>	12-36 Volt
<b>MAX. CURRENT</b>	4 Channels x 5 Ampere max.
<b>MAX. LOAD</b>	240 Watt (12 Volt) / 480 Watt (24 Volt)
<b>SIZE</b>	178 x 45 x 19 mm
<b>DIMMABLE</b>	Yes



To control constant voltage LED applications (for example LED Strips 12V24V)

<b>ART.NR</b>	214-133
<b>INPUT VOLT.</b>	12-36 Volt
<b>POWER</b>	4 x 8,4 - 25,2W
<b>MAX. LOAD</b>	4 x 700mA x 12-36V
<b>SIZE</b>	178 x 45 x 19 mm
<b>DIMMABLE</b>	Yes
<b>ART.NR</b>	214-184
<b>INPUT VOLT.</b>	200-240 Volt
<b>POWER</b>	1 x 30W
<b>OUTPUT CUR.</b>	250-1000mA x 8-48V
<b>SIZE</b>	170 x 53,4 x 28 mm
<b>DIMMABLE</b>	Yes



To control constant current LED applications (for example Universal or Downlight modules 700mA)

## Calculation example for Constant Voltage: CV

Based on the voltage of the Led strip and the amount of power coming from the LED strip (Watt p/m), you can determine the minimum required power quantity for your project and choose the right power supply.

**Example:** Based on a 24V LED Strip Art. nr. 127-128 and a project that requires 3,4 meters of this particular Led strip: Power consumption of the LED strip is 10 Watt p/m. Required power total is 3,4 meter x 10 Watt = 34 Watt

A good choice will be a 40W Power Supply Art. nr. 215-414

## Calculation example for Constant Current: CC

Based on the amperage/constant current of the fixture (usually 350mA or 700mA) and the correct current output, you can determine the minimum required power quantity for your project and choose the right power supply.

**Example:** Based on 3 pcs of Downlight modules Art. nr. 148-151 that need to be connected and empowered: 350mA module with 3,3 Watt power. Required power total is 3 x 3,3 Watt = 9,9 Watt

A good choice will be a 350mA/20W Power Supply Art. nr. 215-412

# Drivers & Controllers | Controllers Multi Color



**ART. NR.**  
**REMOTE CONTROL**  
**NR. OF ZONES**  
**CHANGING PATTERNS**  
**PATTERNS**  
**SIZE**

214-142  
RGB+W Remote Control  
2  
4 built-in changing patterns  
4 scenes can be saved  
131,6 x 43,8 x 24,5 mm

**ART. NR.**  
**REMOTE CONTROL**  
**NR. OF ZONES**  
**CHANGING PATTERNS**  
**PATTERNS**  
**SIZE**

214-157  
RGB+W Remote Control  
4  
3 built-in changing patterns  
3 scenes can be saved  
120 x 55 x 17 mm

**ART. NR.**  
**REMOTE CONTROL**  
**NR. OF ZONES**  
**CHANGING PATTERNS**  
**PATTERNS**  
**SIZE**

214-155  
RGB+W Remote Control  
8  
10 built-in changing patterns  
4 colors can be saved  
131,6 x 43,8 x 24,5 mm

**ART. NR. BLACK**  
**ART. NR. WHITE**  
**REMOTE CONTROL**  
**NR. OF ZONES**  
**CHANGING PATTERNS**  
**PATTERNS**  
**SIZE**

214-168  
214-169  
RGB+W Remote Control  
4  
10 built-in changing  
4 scenes can be saved  
86 x 86 x 29,1 mm



**ART. NR.**  
**REMOTE CONTROL**  
**NR. OF ZONES**  
**CHANGING PATTERNS**  
**PATTERNS**  
**SIZE**

214-175  
Tuneable white  
4  
3 built-in changing patterns  
10 patterns can be saved  
178 x 46 x 22 mm



**ART. NR.**  
**REMOTE CONTROL**  
**NR. OF ZONES**  
**TUNEABLE**  
**PATTERNS**  
**SIZE**

214-159  
Tuneable white  
1  
Light color & Light intensity  
N/A  
96 x 65 x 74 mm



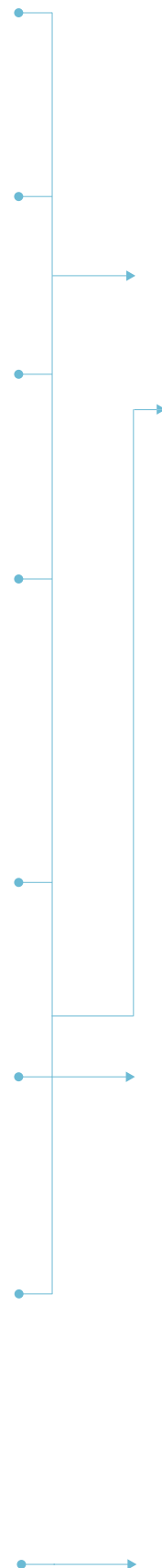
**ART. NR.**  
**REMOTE CONTROL**  
**NR. OF ZONES**  
**TUNEABLE**  
**PATTERNS**  
**SIZE**

214-172  
Tuneable white  
1  
Light color & Light intensity  
N/A  
86 x 86 x 14 mm



**ART. NR.**  
**REMOTE CONTROL**  
**NR. OF ZONES**  
**CHANGING PATTERNS**  
**PATTERNS**  
**SIZE**

214-178  
RGB+Tuneable white Control  
4  
4 built-in changing patterns  
4 scenes can be saved  
153 x 52 x 19 mm



# Controllers Multi Color | Drivers & Controllers

## RGB+W + TUNEABLE WHITE

To control RGB+W LED applications. (for example RGB+W & Tuneable white LED Strips and RGB+W LED Panels)



ART. NR.	214-143
INPUT VOLT.	12-36 Volt
MAX. CURRENT	4 x 5 Ampere
POWER	4 x 60 - 180W
IP RATE	IP20
SIZE	178 x 46 x 22 mm



## RGB + TUNEABLE WHITE

To control RGB+W LED applications. (Controlable DMX Fixtures, or Tuneable white LED Strips or Tuneable LED Panels with a DMX receiver)



ART. NR.	214-153
INPUT VOLT.	110 - 220V
OUTPUT	32 channels DMX / 8 zones
IP RATE	IP20
SIZE	178 x 57 x 21 mm

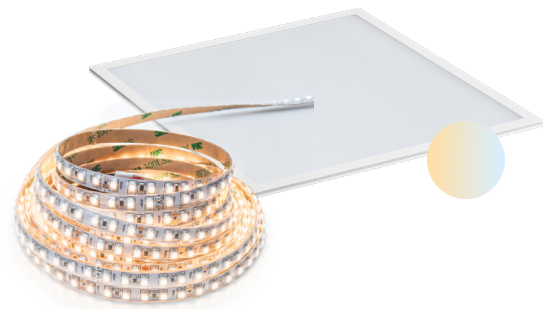


## TUNEABLE WHITE

To control tuneable white LED applications. (For example: LED Strips and LED Panel 173-001)



ART. NR.	214-167
INPUT VOLT.	8 - 52V
POWER	50 Watt
SIZE	210 x 50 x 32 mm
DIMMABLE	Yes



## RGBWW

To control RGB+TW LED applications. (For example LED Strips 127-085 or 127-086 RGB + Tuneable white)

ART. NR.	214-166
INPUT VOLT.	12-36 Volt
MAX. CURRENT	5 x 5 Ampere
POWER	4 x 60 - 180W
IP RATE	IP20
SIZE	170 x 59 x 29 mm



# Drivers & Controllers | Controllers DMX

## DMX DECODER | 4X5A | 12-36V | RDM

DMX decoder and master mode, RDM function, Total 4 PWM output channels, common anode. DMX channel quantity from 1CH~4CH settable.



**Input voltage:** 12 - 36V  
**Dimmable:** Yes  
**Remote control:** No  
**Control method:** DMX512  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Material:** PC  
**Color:** White



ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X W X H)
214-185	4x 5000 mA	4x 120W (24V)	170 x 53,4 x 28 mm

## DMX RECEIVER | 3/4 CHANNELS \*6 AMPERE

Works with each DMX-master or with DMX wall panel Art.nr. 214-135/214-139 or 214-182/214-183



**Input voltage:** 12 - 24V  
**Dimmable:** Yes  
**Remote control:** No  
**Control method:** DMX512  
**IP Rate:** IP20

**Connection type:** Terminal block / XLR / RJ45  
**Material:** Aluminium  
**Color:** Black



ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X W X H)
214-113	3x 6000 mA	3x 144 Watt (24V)	127 x 42 x 33 mm

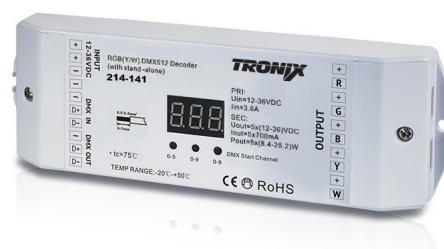
## DMX RECEIVER | 5 CHANNELS \* 700mA

Works with each DMX-master or with DMX wall panel Art.nr. 214-135 or 214-139



**Input voltage:** 12 - 36V  
**Dimmable:** Yes  
**Remote control:** No  
**Control method:** DMX512  
**IP Rate:** IP20

**Connection type:** Terminal block  
**Color:** White



ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X W X H)
214-141	5x 700 mA	5 x 16,8 Watt (24V)	178 x 46 x 18 mm

## DMX DIM MODULE | 2 CHANNELS | 100-240V PHASE-CUT

specialy designed to integrate Triac controllable lamps into DMX512 systems.



**Input voltage:** 100 - 240V  
**Output voltage:** 100 - 240V  
**Dimmable:** Yes  
**Remote control:** No

**Control method:** DMX512  
**IP Rate:** IP20  
**Connection type:** Terminal block  
**Color:** White



ART. NR.	MAX. CURRENT	MAX. POWER	SIZE (L X W X H)
214-181	2x 1200 mA	2x 288 Watt	170 x 59 x 29 mm

# Controllers DMX | Drivers & Controllers

## DMX/DALI CONTROLLER | LINEAR DRIVE

This constant voltage LED Driver is DMX compatible and allows you to create your color or dynamic show without an external controller



eldoLED® **CV**

**Input voltage:** 12 - 24V / 12 - 48V / 120 - 250V

**IP rate:** IP20

**Connection type:** Terminal block



ART. NR.	TYPE	INPUT VOLTAGE	MAX. CURRENT	MAX. POWER	ZONES	OUTPUTS	DIMMING	SIZE (L X W X H)
214-352	100/A	120 - 250V	4x 4000 mA	100 Watt	4	4	DMX/DALI	388 x 42 x 30 mm
214-353	180/D	12 - 24V	4x 6000 mA	180 Watt	4	4	DMX	153 x 50 x 23 mm
214-350	720/D	12 - 48V	4x 6000 mA	720 Watt	4	4	DMX/DALI	153 x 50 x 23 mm

## LED DRIVER | POWERDRIVE | 50W | DMX

The POWERdrive 6060/R integrates 32 drivers into one, which can be controlled via DMX, DALI or 0-10V. You can install up to 32 fixtures (1-32 (DMX), 1-4 (DALI), 1 (0-10V) on the POWERdrive 6060/R, making this an extremely “clean”, professional choice.



eldoLED® **CC**

**Input voltage:** 120 - 230V

**Power factor:** >0,95

**Dimmable:** Dali/DMX/0-10V

**IP Rate:** IP20

**Connection type:** Terminal block

**Isolation:** SELV

**Ambient temperature:** -20°C / +50°C



ART.NR.	TYPE	DALI TYPE	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-685	PW6060R1	DT6	200 ~ 1050 mA	600 Watt	2 - 55 Volt	482,6 x 325 x 44,5 mm

## LED DRIVER | POWERDRIVE | DMX

The POWERdrive has a programmable, constant current output. It differs from the ECOdrive, SOLOdrive and DUALdrive in that it has four independent outputs. The POWERdrive is suitable for 50W (DMX, widely used in theatre technology).



eldoLED® **CC**

**Input voltage:** 120 - 250V

**Power factor:** >0,95

**Dimmable:** DMX

**IP Rate:** IP20

**Connection type:** Terminal block

**Isolation:** SELV

**Ambient temperature:** -20°C / +50°C



ART.NR.	TYPE	CONSTANT CURRENT	MAX. POWER	OUTPUT VOLTAGE	SIZE (L X W X H)
215-681	50SA-M4Z0X	4x 150 ~ 1050 mA	50 Watt	2 - 55 Volt	153 x 76,2 x 30,5 mm

# Drivers & Controllers | Controllers DMX

## DMX WALL CONTROLLER | 1 ZONE

To use in combination with Art. nr. 214-113, 214-185 and 214-115

**Input voltage:** 12 - 24V  
**Output:** DMX512  
**Nr. of channels:** 4 (DMX out)  
**IP Rate:** IP20

**Operation:** Color wheel  
**Connection type:** Terminal block  
**Size:** 86 x 86 x 29,1 mm  
**Mounting:** Wall panel



ART. NR.	COLOR
214-135	Black
214-139	White

ART. NR.	ADVISED PRODUCTS
215-430	Power Supply 24V   9 Watt   Small Type   Indoor

## DMX WALL CONTROLLER | 4 ZONES

To use in combination with Art. nr. 214-113, 214-140 and 214-115

**Input voltage:** 12 - 24V  
**Output:** DMX512  
**Nr. of channels:** 16 (DMX out)  
**IP Rate:** IP20

**Operation:** Color wheel  
**Connection type:** Terminal block  
**Size:** 86 x 86 x 29,1 mm  
**Mounting:** Wall panel



ART. NR.	COLOR
214-182	Black
214-183	White

ART. NR.	ADVISED PRODUCTS
215-430	Power Supply 24V   9 Watt   Small Type   Indoor

### DMX - MORE THAN THEATER AND EVENT TECHNOLOGY ALONE

- DMX is a universal and digital communication protocol used to control intelligent lighting equipment and special effects, and is therefore most commonly used in theater and event technology. But DMX has now also found its way to functional and utility construction, e.g. to highlight architectural buildings in a striking way.
- Ask us for the possibilities with DMX controlling or any other digital protocol for your project, we will be happy to assist you. [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | +31 (0) 413 330 380.

### DMX - MEER DAN ALLEEN THEATER EN EVENT TECHNOLOGIE

- DMX – Digital MultipleX - is een universeel en digitaal communicatieprotocol voor de aansturing van intelligente verlichtingsapparatuur en special effects, en wordt veelal toegepast in de theater- en evenemententechniek. Maar DMX heeft inmiddels ook haar weg gevonden naar de functionele- en utiliteitsbouw, waar het gebruikt wordt om architectonische gebouwen opvallend uit te lichten.
- Vraag ons naar de mogelijkheden met DMX of ander digitaal protocol voor uw project, we helpen u graag! [sales@tronixlighting.com](mailto:sales@tronixlighting.com) | +31 (0) 413330380.





Tronix RGB led-strips controlled by DMX at Mainstage Brabanthallen, Den Bosch - Netherlands

# Drivers & Controllers | sensors

## IR MOTION SENSOR | 360° | CEILING | IP20

Recessed infra-red motion sensor for suspended ceilings

**Input voltage:** 220 - 240V  
**Time delay:** 10 sec. - 7 min. (adj.)  
**Detection motion speed:** 0,6 - 1,5 m/sec  
**Size:** 55,4 x 25,5 x 36,8 mm (driver)

**IP Rate:** IP20  
**Connection type:** Stripped wire



ART. NR.	DETECTION RADIUS	MAXIMUM LOAD	DETECTION DISTANCE	AMBIENT LIGHT
214-120	360°	200 Watt	Max. 8 meter	10-2000 Lux (adj.)

## IR MOTION SENSOR | CEILING | RECESSED | IP20

Recessed Infra-red motion sensor for suspended ceilings

**Input voltage:** 220V - 240V  
**Time delay:** 10 sec. - 15 min. (adj.)  
**Detection motion speed:** 0,6 - 1,5 m/sec  
**Installation Height:** 2,2 - 4m  
**Size:** Ø76 mm (mounting size Ø61,5 x 75,6 mm)

**IP rate:** IP20  
**Connection type:** Terminal block



ART. NR.	DETECTION RADIUS	MAXIMUM LOAD	DETECTION DISTANCE	AMBIENT LIGHT
214-051	360°	300 Watt	Max. 6 meter	3-2000 Lux (adj.)

## IR MOTION SENSOR | 360° | CEILING | SURFACE | IP20

Surface mounted infra-red motion sensor for ceilings

**Input voltage:** 220 - 240V  
**Time delay:** 10 sec. - 15 min. (adj.)  
**Detection motion speed:** 0,6 - 1,5 m/sec  
**Installation Height:** 2,2 - 4m  
**Size:** Ø80 x 41 mm

**IP rate:** IP20  
**Connection type:** Terminal block



ART. NR.	DETECTION RADIUS	MAXIMUM LOAD	DETECTION DISTANCE	AMBIENT LIGHT
214-052	360°	600 Watt	Max. 6 meter	3-2000 Lux (adj.)

## CASAMBI SENSOR | MOTION + LIGHT BLACK & WHITE

**Input voltage:** 220 - 240V  
**IP rate:** IP44 (front)  
**Size:** 73 x Ø38 (Ø25 mm mounting hole)  
**Connection type:** Stripped wire



CASAMBI



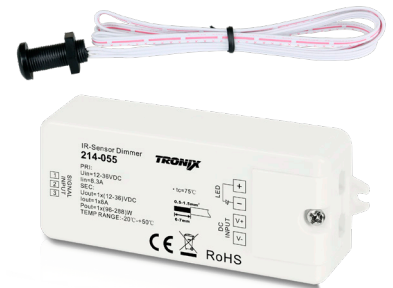
ART. NR.	HOUSING COLOR	MAX. LOAD	DETEC. RADIUS	DETEC. RANGE	MOUNTING HEIGHT
214-202	○ White	64 zones	100°	max. 7 meter	3 meter
214-203	● Black	64 zones	100°	max. 7 meter	3 meter

# Sensors | Controllers & Sensors

## IR HAND WAVE SENSOR | 12-36V | IP20 LONG/SHORT SHELL

For switching on/off (short hand-wave) or dimming (long hand-wave)

**Input voltage:** 12 - 36V  
**Time delay:** N/A  
**Detection motion speed:** N/A  
**Size:** 95 x 37 x 20 mm (driver)  
**IP Rate:** IP20  
**Connection type:** Screw terminal



214-055  
Short Shell



214-056  
Long Shell

ART. NR.	TYPE	SIZE SHELL	MAXIMUM LOAD	DETECTION DISTANCE
214-055	Long shell	Ø 17 mm (sensor) Ø 11 mm x 25 mm (screw)	96-288 Watt	Max. 6 cm (hand wave)
214-056	Short shell	Ø 20 mm (sensor) Ø 17 mm x 17 mm (screw)	96-288 Watt	Max. 6 cm (hand wave)

## IR DOOR SENSOR | BLACK/WHITE | 12-24V 2A | IP20

For switching on/off (short touch) or dimming (long touch)

**Input voltage:** 12 - 24V  
**Time delay:** N/A  
**Detection motion speed:** N/A  
**IP Rate:** IP20  
**Connection type:** Stripped wire



ART. NR.	COLOR	MAXIMUM LOAD	DETECTION DISTANCE
214-057	Black	48 Watt (24V)	3 - 10 cm
214-058	White	48 Watt (24V)	3 - 10 cm



**Looking for our latest product releases?** We keep continued focus on new product development and further extension of our range. Visit our website for a most actual overview.

**Op zoek naar onze allernieuwste producten?** We werken voortdurend aan nieuwe productontwikkeling en een verdere uitbreiding van ons assortiment. Bezoek onze website voor het meest actuele overzicht!



# 2 LED Strips

A wide range of flexible light strips to suit any decorative lighting application





# LED Strips | Single Color

## LED STRIPS | 60 LED/M | SINGLE COLOR

SMD3528 | 60 LED/M LED Strips with one fixed light color, for indoor and outdoor use.



ART. NR.	IP	24V	COLOR	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE (W X H)
127-014	IP20	24V	2700K	4,8	278	57,9	>90	82	100 mm	5 meters	8 x 2 mm
127-013	IP20	24V	3000K	4,8	288	60,0	>90	85,8	100 mm	5 meters	8 x 2 mm
127-082	IP67	24V	2700K	4,8	278	57,9	>90	82	100 mm	5 meters	10 x 4 mm
127-078	IP67	24V	3000K	4,8	288	60,0	>90	85,8	100 mm	5 meters	10 x 4 mm

## LED STRIPS | 120 LED/M | SINGLE COLOR

SMD3528 | 120 LED/M LED Strips with one fixed light color, for indoor and outdoor use.



ART. NR.	IP	VOLTAGE	COLOR	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE (W X H)
127-060	IP20	24V	2700K	9,6	610	63,6	>90	82,8	50 mm	5 meters	8 x 2 mm
127-065	IP20	24V	3000K	9,6	626	65,2	>90	83,3	50 mm	5 meters	8 x 2 mm
127-066	IP20	24V	4000K	9,6	637	66,4	>90	83,9	50 mm	5 meters	8 x 2 mm
127-059	IP52	24V	2700K	9,6	610	63,6	>90	82,8	50 mm	5 meters	8 x 2,3 mm
127-058	IP52	24V	3000K	9,6	626	65,2	>90	83,3	50 mm	5 meters	8 x 2,3 mm
127-057	IP52	24V	4000K	9,6	637	66,4	>90	83,9	50 mm	5 meters	8 x 2,3 mm
127-041	IP52	24V	6500K	9,6	649	67,6	>90	81,6	50 mm	5 meters	8 x 2,3 mm
127-119	IP65	24V	2700K	9,6	610	63,6	>90	82,8	50 mm	5 meters	8,2 x 2,2 mm
127-118	IP65	24V	3000K	9,6	626	65,2	>90	83,3	50 mm	5 meters	8,2 x 2,2 mm
127-089	IP67	24V	2700K	9,6	610	63,6	>90	82,8	50 mm	5 meters	10 x 4 mm
127-088	IP67	24V	3000K	9,6	626	65,2	>90	83,3	50 mm	5 meters	10 x 4 mm

## LED STRIPS | 120 LED/M | SINGLE COLOR

SMD2010 | 120 LED/M LED Strips with one fixed light color, for indoor use.



ART. NR.	IP	VOLTAGE	COLOR	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE (W X H)
127-174	IP20	24V	2300K	9,6	761	79,3	>95	92,2	25 mm	5 meters	8 x 1,4 mm
127-173	IP20	24V	2700K	9,6	773	80,5	>95	93,4	25 mm	5 meters	8 x 1,4 mm
127-172	IP20	24V	3000K	9,6	896	93,3	>95	95,9	25 mm	5 meters	8 x 1,4 mm
127-171	IP20	24V	4000K	9,6	914	96,3	>95	95,2	25 mm	5 meters	8 x 1,4 mm

# Single Color | LED Strips

## LED STRIPS | 180 LED/M

SMD3528 | 180 LED/M LED Strips with one fixed light color, for indoor and outdoor use.



ART. NR.	IP	VOLTAGE	COLOR	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE (W X H)
127-094	IP20	24V	● 2700K	14,4	883	61,3	>90	81,8	33 mm	5 meters	10 x 2 mm
127-093	IP20	24V	● 3000K	14,4	901	62,6	>90	82,8	33 mm	5 meters	10 x 2 mm
127-092	IP20	24V	○ 4000K	14,4	915	63,6	>90	82,2	33 mm	5 meters	10 x 2 mm
127-096	IP65	24V	● 2700K	14,4	883	61,3	>90	81,8	33 mm	5 meters	10,2 x 2,2 mm
127-095	IP65	24V	● 3000K	14,4	901	62,6	>90	82,8	33 mm	5 meters	10,2 x 2,2 mm

## LED STRIPS | 240 LED/M

SMD2010 | 240 LED/M LED Strips with one fixed light color, for indoor use.



ART. NR.	IP	VOLTAGE	COLOR	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE (W X H)
127-183	IP20	24V	● 2700K	19,2	1524	79,4	>95	94,6	25 mm	5 meters	10 x 1,4 mm
127-182	IP20	24V	● 3000K	19,2	1770	92,2	>95	95,9	25 mm	5 meters	10 x 1,4 mm
127-181	IP20	24V	○ 4000K	19,2	1806	94,1	>95	96,9	25 mm	5 meters	10 x 1,4 mm

## LED STRIPS 560 LED/M

SMD2010 | 560 LED/M LED Strips with one fixed light color, for indoor and outdoor use.



ART. NR.	IP	VOLTAGE	COLOR	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE (W X H)
127-194	IP20	24V	● 2300K	20	1802	90,8	>95	90,3	12,5 mm	5 meters	10 x 1,4 mm
127-193	IP20	24V	● 2700K	20	1850	92,5	>95	93,4	12,5 mm	5 meters	10 x 1,4 mm
127-192	IP20	24V	● 3000K	20	2118	105,9	>95	96,6	12,5 mm	5 meters	10 x 1,4 mm
127-191	IP20	24V	○ 4000K	20	2202	110,1	>95	96,6	12,5 mm	5 meters	10 x 1,4 mm
127-190	IP20	24V	○ 6000K	20	2296	114,8	>95	90,9	12,5 mm	5 meters	10 x 1,4 mm
127-198	IP65	24V	● 2300K	20	1802	90,8	>95	90,3	12,5 mm	5 meters	10 x 1,4 mm
127-197	IP65	24V	● 2700K	20	1850	92,5	>95	93,4	12,5 mm	5 meters	10 x 1,4 mm
127-196	IP65	24V	● 3000K	20	2118	105,9	>95	96,6	12,5 mm	5 meters	10 x 1,4 mm
127-195	IP65	24V	○ 4000K	20	2202	110,1	>95	96,6	12,5 mm	5 meters	10 x 1,4 mm

# LED Strips | Multi Color

## ADJUSTABLE WHITE / FLAME DIMMING 1800K~6500K / 1800K-3000K

SMD2210 | SMD2216 | Dual color Led strips with adjustable color temperature from 1800K-6500K, or flame dimming 1800K-3000K.



ART. NR.	IP	VOLTAGE	COLOR	ADJ. / FLAME	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	✂	LENGTH	SIZE (W X H)
127-138	IP20	24V	●○ 1800-3000K	Flame dim.	224	18	1389	77,2	>90	62,5 mm	5 meters	10 x 1,2 mm
127-189	IP20	24V	●○ 1800-6500K	Adj. white	364	20	2056	102,8	>90	38,46 mm	5 meters	10 x 1,4 mm

## RGB

SMD2835 | SMD5050 LED | RGB LED Strips for indoor and outdoor use.



ART. NR.	IP	VOLTAGE	COLOR (CCT)	100%RGB	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	✂	LENGTH	SIZE (W X H)
127-101	IP20	24V	●●● 42.300		60	14,4	620	43,1	50	100 mm	5 meters	10 x 2 mm
127-104	IP20	24V	●●● 42.300		96	23,0	980	44,0	50	62,5 mm	5 meters	12 x 2 mm
127-010	IP52	24V	●●● 42.300		60	14,4	620	43,1	50	100 mm	5 meters	10 x 2,3 mm
127-070	IP67	24V	●●● 42.300		60	14,4	620	43,1	50	100 mm	5 meters	12 x 4 mm
127-099	IP20	24V	●●● 42.300		120	10,0	425	41,6	50	62,5 mm	5 meters	5 x 2 mm

## CONTROLLERS FOR ADJUSTABLE WHITE LED STRIPS

ART.NR.	214-159
DIMMING	Switch / Turn
SIZE	96 x 65 x 74 mm
BATTERY	included
RANGE	<20 meter
ZONES	1



ART.NR.	214-172
DIMMING	Push remote
SIZE	86 x 86 x 14 mm
BATTERY	included
RANGE	<20 meter
ZONES	1



ART.NR.	214-175
DIMMING	Color wheel
SIZE	120 x 55 x 17 mm
BATTERY	included
RANGE	<20 meter
ZONES	4



ART.NR.	214-143
SIZE	178 x 46 x 22 mm
INPUT	12-36V
POWER	4 x 60-180W
ZONES	1
CHANNELS	4





# Multi Color | LED Strips

## RGB + WARM WHITE

SMD5050 LED | RGB + Warm white (4 in 1 led) LED Strips for indoor and outdoor use



ART. NR.	IP	VOLTAGE	COLOR (CCT) 100%RGB	CCT WHITE	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	✂	LENGTH	SIZE (W X H)
127-075	IP20	24V		2700K	60	19,2	1113	58	55,4	100 mm	5 meters	12 x 2 mm
127-079	IP20	24V		2700K	96	30,6	1650	57	57,0	62,5 mm	5 meters	12 x 2 mm
127-084	IP65	24V		2700K	60	19,2	1113	58	55,4	100 mm	5 meters	12,2 x 2,2 mm

## RGB + TUNABLE WHITE (5 IN 1)

SMD5050 LED | RGB + Tunable white (5 in 1 led) LED Strips for indoor and outdoor use



ART. NR.	IP	VOLTAGE	COLOR (CCT) 100%RGB	CCT WHITE	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	✂	LENGTH	SIZE (W X H)
127-085	IP20	24V		2400K~6000K	60	19,2	1101	57	83,24	100 mm	5 meters	12 x 2 mm
127-086	IP52	24V		2400K~6000K	60	19,2	1101	57	83,24	100 mm	5 meters	12 x 2,3 mm

## CONTROLLERS FOR ADJUSTABLE LED STRIP 127-085 / 127-086

ART.NR.	214-178
DIMMING	Color wheel
SIZE	153 x 52 x 19 mm
BATTERY	excluded
RANGE	<20 meter
ZONES	4



ART.NR.	214-166
SIZE	170x 59 x 29 mm
INPUT	12-36V
POWER	5 x 60-180W
ZONES	1
CHANNELS	5



# LED Strips | Constant Current

## LED STRIP | CONSTANT CURRENT RGB + WARM WHITE

SMD 5050 | RGB + warm white (4 in 1 Led) Led strip for indoor use. For lengths up to 15 meter with a special technology for an equal distribution of light output.



ART. NR.	IP	VOLTAGE	COLOR (CCT) 100%RGB	CCT WHITE	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	✂	LENGTH	SIZE (W X H)
127-115	IP20	24V			60	11	730,2	66,4	n.a.		15 meters	12 x 2mm



**Looking for our latest product releases?** We keep continued focus on new product development and further extension of our range. Visit our website for a most actual overview.

**Op zoek naar onze allernieuwste producten?** We werken voortdurend aan nieuwe productontwikkeling en een verdere uitbreiding van ons assortiment. Bezoek onze website voor het meest actuele overzicht!





*Tronix Led Strips Single Color at home residence, Den Bosch - The Netherlands*

# LED Strips | COB

## LED STRIPS COB | SINGLE COLOR | WHITE

COB LED | For applications in shallow (undeep) profiles, for maximum light spread (no dots).



**3M**



ART. NR.	IP	VOLT.	COLOR	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-163	IP20	24V	2700K	480	15	1418	94,53	>90	55,8	50 mm	5 meters	8 x 2 mm
127-162	IP20	24V	3000K	480	15	1527	101,8	>90	67,5	50 mm	5 meters	8 x 2 mm
127-161	IP20	24V	4000K	480	15	1690	112,7	>90	69,9	50 mm	5 meters	8 x 2 mm
127-160	IP20	24V	6500K	480	15	1672	111,5	>90	69,1	50 mm	5 meters	8 x 2 mm

## LED STRIPS COB | SINGLE COLOR | FREE CUTTING

COB LED | For applications in shallow (undeep) profiles, for maximum light spread (no dots). Free cuttable (cut anywhere you want).



**3M**



ART. NR.	IP	VOLT.	COLOR	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-169	IP20	24V	2200K	480	10	920	92,00	>90		Free	5 meters	8 x 2 mm
127-168	IP20	24V	2400K	480	10	950	95,05	>90		Free	5 meters	8 x 2 mm
127-167	IP20	24V	2700K	480	10	1015	101,51	>90		Free	5 meters	8 x 2 mm
127-166	IP20	24V	3000K	480	10	1075	107,55	>90		Free	5 meters	8 x 2 mm
127-165	IP20	24V	4000K	480	10	1114	111,47	>90		Free	5 meters	8 x 2 mm
127-164	IP20	24V	6500K	480	10	1211	121,13	>90		Free	5 meters	8 x 2 mm

## LED STRIPS COB | SINGLE COLOR | SMALL

COB LED | For applications in shallow (undeep) profiles, for maximum light spread (no dots).



**3M**



ART. NR.	IP	VOLT.	COLOR	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-158	IP20	24V	2700K	480	5	480	96,2	>90	55,8	50 mm	5 meters	4 x 2 mm
127-157	IP20	24V	3000K	480	5	512	102,4	>90	67,5	50 mm	5 meters	4 x 2 mm
127-156	IP20	24V	4000K	480	5	550	110,0	>90	69,9	50 mm	5 meters	4 x 2 mm
127-155	IP20	24V	6500K	480	5	573	114,6	>90	69,1	50 mm	5 meters	4 x 2 mm

## LED STRIPS COB | SINGLE COLOR | COLOR

COB LED | For applications in shallow (undeep) profiles, for maximum light spread (no dots).



**3M**



ART. NR.	IP	VOLT.	COLOR	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-121	IP20	24V	Blue	480	10	199,8	19,98	n/a	n/a	62,5 mm	5 meters	8 x 2 mm
127-122	IP20	24V	Green	480	10	1289,9	128,99	n/a	n/a	62,5 mm	5 meters	8 x 2 mm
127-123	IP20	24V	Red	480	10	179,7	17,97	n/a	n/a	62,5 mm	5 meters	8 x 2 mm
127-124	IP20	24V	Yellow	480	10	803,3	80,33	n/a	n/a	62,5 mm	5 meters	8 x 2 mm

# COB | LED Strips

## LED STRIP COB | ADJUSTABLE WHITE 2200~6000K



COB LED | For applications in shallow (undeep) profiles, for maximum light spread (no dots).



ART. NR.	IP	VOLT.	COLOR	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-129	IP20	24V	☉ 2200-6500K	576	15	1525	101,7	>90	2200K 76,83 6500K 95,85		5 meters	10 x 2 mm

3M



## LED STRIP COB | RGB



COB LED | For applications in shallow (undeep) profiles, for maximum light spread (no dots).



ART. NR.	IP	VOLT.	COLOR (CCT) 100% RGB	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-133	IP20	24V	🌈 42.300	840	15	600	40,0	n/a	n/a	50 mm	5 meters	10 x 2 mm

3M



## LED STRIP COB | RGBWW

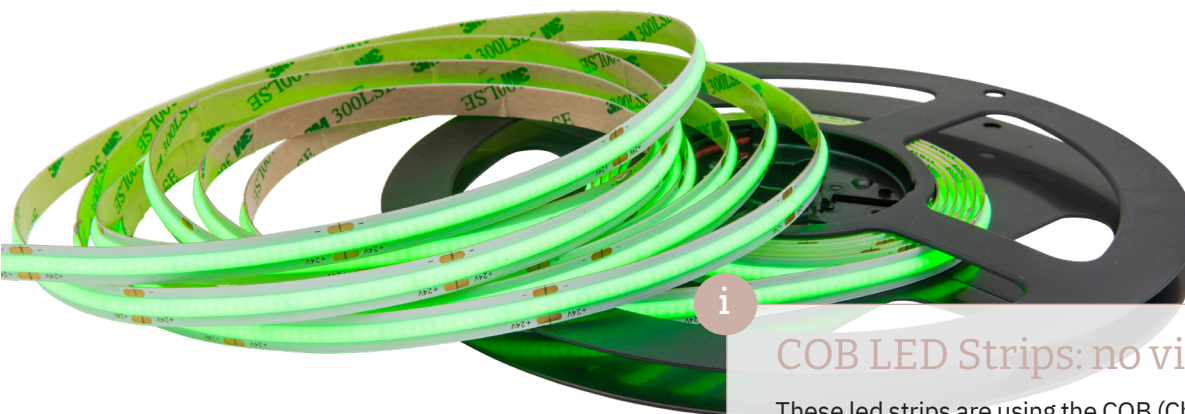


COB LED | For applications in shallow (undeep) profiles, for maximum light spread (no dots).



ART. NR.	IP	VOLTAGE	COLOR (CCT) 100%RGB	CCT WHITE	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	✂	LENGTH	SIZE (W X H)
127-134	IP20	24V	🌈 42.300	☉ 2700K	840	16	800	50,0	>90	33,3 mm	5 meters	12 x 2 mm

3M



i

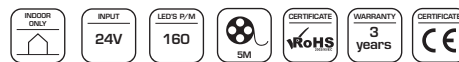
### COB LED Strips: no visible light dots

These led strips are using the COB (Chip On Board) technology, where chips are placed very closely together. Biggest advantage: no visible 'light dots' and a very uniform light spread. This makes COB Led strips ideal for use in shallow (undeep) profiles. For maximum light spread, please use in combination with frosted or opal cover. \*Check our website for the Galaxy profile catalog

# LED Strips | specials

## LED STRIP | HIGH EFFICIENCY

SMD 2835 | LED Strips with an extra high light efficiency of 160 Lm/W.



ART. NR.	IP	VOLT.	COLOR	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-140	IP20	24V	3000K	160	21	3368	160,4	78,22	0,9	50 mm	5 meter	12 x 1,2 mm

## LED STRIPS | ULTRA NARROW | 3 MM

Extra narrow LED Strips for use in narrow profiles and applications require this.



ART. NR.	IP	VOLT.	COLOR	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-152	IP20	24V	2700K	240	8	601	75,2	>95	88,6	25 mm	5 meters	3 x 1,4 mm
127-151	IP20	24V	3000K	240	8	742	92,8	>95	96,3	25 mm	5 meters	3 x 1,4 mm
127-150	IP20	24V	4000K	240	8	803	100,4	>95	96,8	25 mm	5 meters	3 x 1,4 mm

## LED STRIPS | ULTRA NARROW | 5 MM

Extra narrow LED Strips for use in narrow profiles and applications require this.



ART. NR.	IP	VOLT.	COLOR	LED/M	WATT/M	LUMEN/M	LUMEN/W	CRI	R9	✂	LENGTH	SIZE. (W X H)
127-146	IP20	24V	2700K	240	10	862	86	>90	54,8	25 mm	5 meters	5 x 1,2 mm
127-145	IP20	24V	3000K	240	10	876	87,6	>90	51,8	25 mm	5 meters	5 x 1,2 mm
127-144	IP20	24V	4000K	240	10	899	89,9	>90	68,9	25 mm	5 meters	5 x 1,2 mm



### Installing LED Strips: Our advice

When installing LED Strips, we advice you to place them only in our high quality range of aluminium Galaxy Profiles. These profiles will not only protect the Led strips from grease and dust, but also have an important cooling function that prevents the Led's from getting warm.



*Tronix Led Strips Single Color under bar at office place 'DVDIII' - The Netherlands*

# LED Strips | Accessories

## LED STRIP POWER CONNECTORS

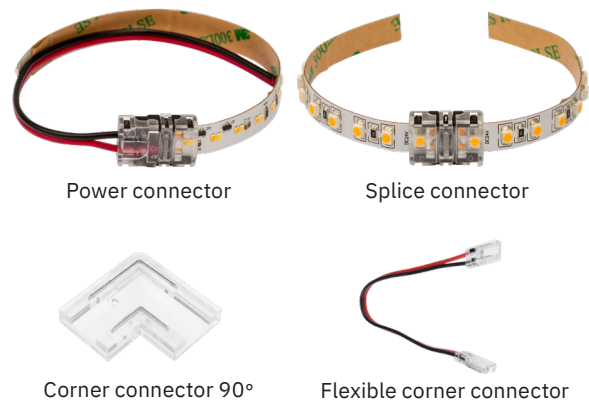
ART. NR.	FOR LED STRIP	SIZE	IP	USE WITH WIRE
127-401	Single Color	8 mm	IP20	127-250
127-400	Single Color	8 mm	IP52	127-250
127-424	Single Color	8 mm	IP67	127-250
127-405	Single Color	10 mm	IP20	127-250
127-406	Single Color	240 LED/M	IP20	127-250
127-438	Single Color   COB	8 mm	IP20	127-250
127-411	TW	10 mm	IP20	127-251
127-415	RGB	10 mm	IP20	127-252
127-414	RGB	10 mm	IP52	127-272
127-428	RGB	10 mm	IP67	127-252
127-419	RGBW	12 mm	IP20	127-272
127-418	RGBW	12 mm	IP52	127-272
127-431	RGBTW	12 mm	IP20	127-277
127-430	RGBTW	12 mm	IP67	127-277
127-447	127-129	10 mm	IP20	127-251
127-453	127-133	12 mm	IP20	127-252

## LED STRIP SPLICE CONNECTOR

ART. NR.	FOR LED STRIP	SIZE	IP
127-403	Single Color	8 mm	IP20
127-402	Single Color	8 mm	IP52
127-425	Single Color	8 mm	IP67
127-408	Single Color	10 mm	IP20
127-409	Single Color	240 LED/M	IP20
127-439	Single Color   COB	8 mm	IP20
127-440	Single Color   COB	8 mm	IP20
127-413	TW	10 mm	IP20
127-417	RGB	10 mm	IP20
127-416	RGB	10 mm	IP52
127-429	RGB	10 mm	IP67
127-422	RGBW	12 mm	IP20
127-421	RGBW	12 mm	IP52
127-432	RGBTW	12 mm	IP67
127-433	RGBTW	10 mm	IP20
127-445	127-129	10 mm	IP20
127-452	127-133	12 mm	IP20

## LED STRIP CORNER CONNECTORS NEW

ART. NR.	FOR LED STRIP	CORNER	SIZE	IP
127-442	Single Color   COB	Flexible	8 mm	IP20
127-444	Single Color   COB	90°	8 mm	IP20
127-450	127-129	Flexible	10 mm	IP20
127-451	127-129	90°	10 mm	IP20
127-454	127-133	Flexible	12 mm	IP20



## HOW TO CREATE SAFE & EASY LED STRIP CONNECTIONS?

All LED strips are supplied with a wire connection. A LED strip connector or coupling piece is not necessary when applying a LED strip in the standard way. Would you like to link, shorten, extend or connect the LED strip? In that case we have many types of connectors for LED strips to choose from.

### POWER CONNECTOR

Power connectors ensure that you can reconnect the end of your (cutted/shortened) LED strip onto an LED power supply, without having to solder! Simply slide the strip into the click connector, click it, and the connection is made. In case of a waterproof LED strip, please make sure to first remove the silicone gel from the strip, and apply some extra glue in the appropriate hole for an IP67 connection.



### SPLICE CONNECTOR

To connect two LED Strips to each other, you can use a splice connector. Slide the two strips into the splice connector and click to close. Also note that in case of a waterproof LED strip you must first remove the silicone gel from the strip; then apply some extra glue in the appropriate spot to make the IP67 connection.



Check our website for step-by-step installation manuals



# Accessories | LED Strips

## LED STRIP WIRE | 2 CORE | PRO METER

ART. NR.  
127-250



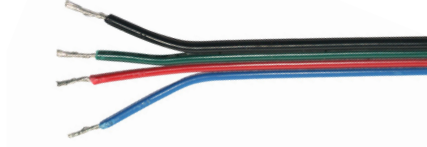
## LED STRIP WIRE | 3 CORE | PRO METER

ART. NR.  
127-251



## LED STRIP WIRE | 4 CORE | PRO METER

ART. NR.  
127-252



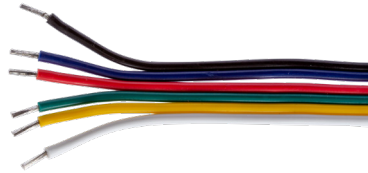
## LED STRIP WIRE | 5 CORE | PRO METER

ART. NR.  
127-272



## LED STRIP WIRE | 6 CORE | PRO METER

ART. NR.  
127-277



## 3M TAPE RED | 33,33 METER ROLL

ART. NR.  
127-270



## EXTENSION CABLE | 500 CM

ART. NR.  
120-109



## END CAP FOR IP65 AND IP67 SMD5050

ART. NR.  
127-288



## END CAP FOR IP65 AND IP67 SMD5050

ART. NR.  
127-289



## GLUE TUBE

ART. NR.  
485-055



# 3 Modules

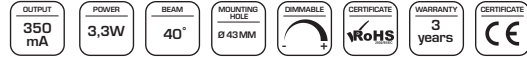
The right solution for a wide  
variety in applications





# Spot Modules

## DOWNLIGHT MODULE | 3,3 WATT



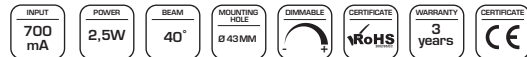
**Constant current:** 350mA  
**Power:** 3,3 Watt  
**Driver:** Excluded  
**Dimmable:** Yes  
**Beam angle:** 40°  
**IP rate:** IP44 (when mounted)

**Diameter:** Ø 50 mm  
**Mounting hole:** Ø 43 mm  
**Height:** 33 mm  
**Connection type:** Modular plug  
**Cable length:** 100 cm  
**Housing:** Aluminium/Black/White



ART. NR.	HOUSING COLOR	INPUT VOLTAGE	LUMINOUS FLUX	COLOR TEMP. (CCT)	LIGHT COLOR CRI
148-151	● Aluminium	9,4 Volt	300 Lm	2700K	○ Warm white+ >90
148-195	○ White	9,4 Volt	300 Lm	2700K	○ Warm white+ >90
148-153	● Black	9,4 Volt	300 Lm	2700K	○ Warm white+ >90
148-150	● Aluminium	9,4 Volt	300 Lm	3000K	○ Warm white >90
148-194	○ White	9,4 Volt	300 Lm	3000K	○ Warm white >90
148-152	● Black	9,4 Volt	300 Lm	3000K	○ Warm white >90

## DOWNLIGHT MODULE | 2,5 WATT



**Constant current:** 700mA  
**Power:** 2,5 Watt  
**Driver:** Excluded  
**Dimmable:** Yes  
**Beam angle:** 40°  
**IP rate:** IP44 (when mounted)

**Diameter:** Ø 50 mm  
**Mounting hole:** Ø 43 mm  
**Height:** 24 mm  
**Connection type:** Modular plug  
**Cable length:** 100 cm  
**Housing:** Aluminium/Black/White



ART. NR.	HOUSING COLOR	INPUT VOLTAGE	LUMINOUS FLUX	COLOR TEMP. (CCT)	LIGHT COLOR CRI
148-149	● Aluminium	3,6 Volt	>182 Lm	2700K	○ Warm white+ >90
148-174	○ White	3,6 Volt	>182 Lm	2700K	○ Warm white+ >90
148-175	● Black	3,6 Volt	>182 Lm	2700K	○ Warm white+ >90
148-119	● Aluminium	3,6 Volt	>182 Lm	3000K	○ Warm white >90
148-172	○ White	3,6 Volt	>182 Lm	3000K	○ Warm white >90
148-173	● Black	3,6 Volt	>182 Lm	3000K	○ Warm white >90
148-111	● Aluminium	3,6 Volt	>182 Lm	6500K	○ Cold white >80
148-170	○ White	3,6 Volt	>182 Lm	6500K	○ Cold white >80
148-171	● Black	3,6 Volt	>182 Lm	6500K	○ Cold white >80

## DOWNLIGHT MODULE COB | 1 WATT



**Constant current:** 350mA  
**Power:** 1 Watt  
**Driver:** Excluded  
**Dimmable:** Yes  
**Beam angle:** 90°  
**IP rate:** IP44 (when mounted)

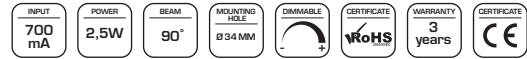
**Diameter:** Ø 25 mm  
**Mounting hole:** Ø 21 mm  
**Height:** 17,2 mm  
**Connection type:** Modular plug  
**Cable length:** 100 cm  
**Housing:** Aluminium/Black/White



ART. NR.	HOUSING COLOR	INPUT VOLTAGE	LUMINOUS FLUX	COLOR TEMP. (CCT)	LIGHT COLOR CRI
148-182	● Aluminium	3,6 Volt	>90 Lm	2700K	○ Warm white+ >90
148-183	○ White	3,6 Volt	>90 Lm	2700K	○ Warm white+ >90
148-184	● Black	3,6 Volt	>90 Lm	2700K	○ Warm white+ >90
148-155	● Aluminium	3,6 Volt	>90 Lm	3000K	○ Warm white >90
148-180	○ White	3,6 Volt	>90 Lm	3000K	○ Warm white >90
148-181	● Black	3,6 Volt	>90 Lm	3000K	○ Warm white >90

# Spot Modules

## CABINET MODULE | 2,5 WATT



**Constant current:** 700mA  
**Power:** 2,5 Watt  
**Driver:** Excluded  
**Dimmable:** Yes  
**Beam angle:** 90°  
**IP rate:** IP20

**Diameter:** Ø 42 mm  
**Mounting hole:** Ø 34 mm  
**Height:** 17 mm  
**Connection type:** Modular plug  
**Cable length:** 75 cm  
**Housing:** Aluminium/Black/White



ART. NR.	HOUSING COLOR	INPUT VOLTAGE	LUMINOUS FLUX	COLOR TEMP. (CCT)	LIGHT COLOR CRI
148-129	● Aluminium	3,6 Volt	>129 Lm	2700K	○ Warm white+ >90
148-132	○ White	3,6 Volt	>129 Lm	2700K	○ Warm white+ >90
148-133	● Black	3,6 Volt	>129 Lm	2700K	○ Warm white+ >90
148-128	● Aluminium	3,6 Volt	>129 Lm	3000K	○ Warm white >90
148-130	○ White	3,6 Volt	>129 Lm	3000K	○ Warm white >90
148-131	● Black	3,6 Volt	>129 Lm	3000K	○ Warm white >90

## PORCH MODULE | 3,3 WATT

Suitable for outdoor terrace or porch lighting



**Constant current:** 350mA  
**Power:** 3,3 Watt  
**Driver:** Excluded  
**Dimmable:** Yes  
**Beam angle:** 40°  
**IP rate:** IP44 (when mounted)

**Diameter:** Ø 42 mm  
**Mounting hole:** Ø 34 mm  
**Height:** 27 mm  
**Connection type:** Modular plug  
**Housing:** Aluminium/Black/White



ART. NR.	HOUSING COLOR	INPUT VOLTAGE	LUMINOUS FLUX	COLOR TEMP. (CCT)	LIGHT COLOR CRI
148-122	● Aluminium	9,4 Volt	300 Lm	2700K	○ Warm white+ >90
148-123	○ White	9,4 Volt	300 Lm	2700K	○ Warm white+ >90
148-124	● Black	9,4 Volt	300 Lm	2700K	○ Warm white+ >90
148-126	● Aluminium	9,4 Volt	300 Lm	3000K	○ Warm white >90
148-120	○ White	9,4 Volt	300 Lm	3000K	○ Warm white >90
148-127	● Black	9,4 Volt	300 Lm	3000K	○ Warm white >90

## PORCH MODULE | 2,5 WATT

Suitable for outdoor terrace or porch lighting



**Constant current:** 700mA  
**Power:** 2,5 Watt  
**Driver:** Excluded  
**Dimmable:** Yes  
**Beam angle:** 40°  
**IP rate:** IP44 (when mounted)

**Diameter:** Ø 42 mm  
**Mounting hole:** Ø 34 mm  
**Mounting Height:** 25 mm  
**Connection type:** Modular plug  
**Housing:** Aluminium



ART. NR.	HOUSING COLOR	INPUT VOLTAGE	LUMINOUS FLUX	COLOR TEMP. (CCT)	LIGHT COLOR CRI
148-125	● Aluminium	3,6 Volt	182 Lm	3000K	○ Warm white >90



Modern toilet area with 2700K Universal Modules

# Spot Modules

## UNIVERSAL MODULE COB | 6,5 WATT

Fits all regular 50 mm plates



**Constant current:** 700mA  
**Power:** 6,5 Watt  
**Driver:** Excluded  
**LED qty:** 1  
**LED type:** CREE COB CXA-1304  
**Dimmable:** Yes  
**Beam angle:** 45°  
**IP rate:** IP44 (when mounted)

**Diameter:** Ø 50 mm  
**Height:** 61 mm  
**Connection type:** Modular plug  
**Cable length:** 100 cm  
**Housing:** Aluminium/Black/White



ART. NR.	HOUSING COLOR	INPUT VOLTAGE	LUMINOUS FLUX	COLOR TEMP. (CCT)	LIGHT COLOR	CRI
148-163	● Aluminium	9,3 Volt	>509 Lm	2700K	○ Warm white+	>90
148-192	○ White	9,3 Volt	>509 Lm	2700K	○ Warm white+	>90
148-193	● Black	9,3 Volt	>509 Lm	2700K	○ Warm white+	>90
148-162	● Aluminium	9,3 Volt	>509 Lm	3000K	○ Warm white	>90
148-190	○ White	9,3 Volt	>509 Lm	3000K	○ Warm white	>90
148-191	● Black	9,3 Volt	>509 Lm	3000K	○ Warm white	>90

## UNIVERSAL MODULE COB | 9/12 WATT

Fits all regular 50 mm plates.  
 Available in 2700K, 3000K and flame-dimming



**Constant current:** 350/700mA  
**Driver:** Excluded  
**Power:** 9/12 Watt  
**LED qty:** 1  
**LED type:** Epistar COB  
**Dimmable:** Yes  
**Beam angle:** 28°

**IP rate:** IP44 (when mounted)  
**Diameter:** Ø 50 mm  
**Height:** 62 mm  
**Connection type:** Modular plug  
**Cable length:** 100 cm  
**Housing:** Aluminium

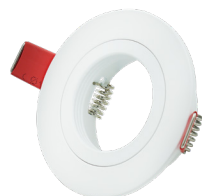


ART. NR.	HOUSING COLOR	POWER	CURRENT	VOLTAGE	LUMINOUS FLUX	COLOR TEMP. (CCT)	LIGHT COLOR	CRI
148-165	● Aluminium	9 watt	350mA	28 Volt	1244 Lm	2700K	○ Warm white+	>90
148-164	● Aluminium	9 watt	350mA	28 Volt	1244 Lm	3000K	○ Warm white	>90
148-169	● Aluminium	12 Watt	700mA	18 Volt	1244 Lm	3000K~2000K	○ Warm white ~ Warm white++	>90

## Application possibilities with Universal LED Modules Ø50 mm:



Recessed fixture adjustable



Recessed fixture non adjustable



Ground Spots



Trimless Fixtures



Renovation of existing installations

# Spot Modules



1W



3,3W



9W

## 350mA



### NON DIMMABLE SERIES

		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
215-412	Indoor	20 Watt	min.1~max.16	min.1~max.6	min.1~max.2

### TRIAC DIMMABLE SERIES

		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
215-320	Outdoor	4 Watt	min.2~max.3	min.1~max.1	-
215-323	Outdoor	6 Watt	min.3~max.4	min.1~max.3	-
215-379	Indoor	9 Watt	min.4~max.7	min.2~max.2	-
215-380	Indoor	18 Watt	min.8~max.14	min.3~max.5	min.1~max.1
215-205	Indoor	10 Watt	min.2~max.7	min.1~max.3	min.1~max.1

### 1-10V DIMMABLE SERIES

		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
215-205	Indoor	10 Watt	min.2~max.7	min.1~max.3	min.1~max.1
215-601	Indoor	14 Watt	min.1~max.11	min.1~max.4	min.1~max.1
215-602	Indoor	19 Watt	min.1~max.15	min.1~max.5	min.1~max.2

### DALI DIMMABLE SERIES

		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
215-272	Indoor	12 Watt	min.2~max.9	min.1~max.3	min.1~max.1
215-267	Indoor	14 Watt	min.1~max.11	min.1~max.4	min.1~max.1
215-605	Indoor	19 Watt	min.1~max.15	min.1~max.5	min.1~max.2

### CASAMBI SERIES

		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
214-206	Indoor	150 Watt	With Triac Driver	With Triac Driver	With Triac Driver
215-267 + 214-231	Indoor	14 Watt	min.1~max.11	min.1~max.4	min.1~max.1
215-605 + 214-231	Indoor	19 Watt	min.1~max.15	min.1~max.5	min.1~max.2



LED Module Divider | 3 outlets Art.nr. 148-306



LED Module Divider | 6 outlets Art.nr. 148-302



# Spot Modules



2,5W

6,5W

12W

## 700mA



NON DIMMABLE SERIES		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
215-202	Indoor	6 Watt	min.1~max.2	-	-
215-211	Indoor	12 Watt	min.1~max.4	min.1~max.1	-
215-212	Indoor	20 Watt	min.1~max.8	min.1~max.3	min.1~max.1
215-221	Indoor	36 Watt	min.1~max.14	min.1~max.5	min.1~max.3



TRIAC DIMMABLE SERIES		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
215-322	Outdoor	4 Watt	min. 1~max.1	-	-
215-325	Outdoor	6 Watt	min. 2~max.2	min.1~max.1	-
215-279	Indoor	9 Watt	min. 3~max.3	-	-
215-280	Indoor	18 Watt	min. 4~max.7	min. 2~max.2	min.1~max.1
215-281	Indoor	25 Watt	min. 5~max.10	min. 2~max.4	-
215-206	Indoor	50 Watt	min. 3~max.13	min. 1~max.5	-



1-10V DIMMABLE SERIES		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
215-601	Indoor	20 Watt	min.1~max.7	min.1~max.2	min.1~max.1
215-602	Indoor	30 Watt	min.1~max.12	min.1~max.4	min.1~max.2



DALI DIMMABLE SERIES		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
215-267	Indoor	20 Watt	min.1~max.7	min.1~max.2	min.1~max.1
215-605	Indoor	30 Watt	min.1~max.12	min.1~max.4	min.1~max.2



CASAMBI SERIES		POWER	MIN.-MAX.LOAD	MIN.-MAX.LOAD	MIN.-MAX.LOAD
214-206	Indoor	150 Watt	With Triac Driver	With Triac Driver	With Triac Driver
215-267 + 214-231	Indoor	20 Watt	min.1~max.7	min.1~max.2	min.1~max.1
215-605 + 214-231	Indoor	30 Watt	min.1~max.12	min.1~max.4	min.1~max.2



LED Module Extension Cable | 2M Art.nr. 148-303  
5M Art.nr 148-304 | 10M Art.nr 148-305

# 4

# Advertising & Signing

Powerful lighting tools for advertising purposes



# SPORT



40%  
40+ years  
30%  
30-39 years  
20%  
20-29 years  
10%  
10-19 years

van Tilburg

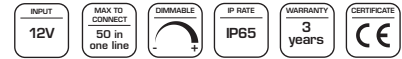
SPORT

# Advertising & Signing | Modules

## BACKGROUND MODULE | HIGH POWER LED

**Input voltage:** 12V  
**Power:** 1,1 Watt  
**Module qty:** 50 modules / 8 meter  
**Max. to connect:** 50  
**LED qty per module:** 3  
**LED type:** SMD2835  
**Dimmable:** Yes

**Beam angle:** 160°  
**IP rate:** IP65  
**Length:** 74.4 mm  
**Width:** 15 mm  
**Height:** 9.2 mm  
**Connection Type:** Stripped wire



ART. NR.	COLOR TEMP. (CCT)	LIGHT COLOR	LUMINOUS FLUX
125-071	7000K	○ Cold white	106 Lm
125-078	3000K	○ Warm white	106 Lm

## BACKGROUND MODULE | RGB

**Input voltage:** 12V  
**Power:** 0,72 Watt  
**Module qty:** 50 modules / 8,5 meter  
**Max. to connect:** 20  
**LED qty per module:** 3  
**LED type:** Epistar 5050

**Dimmable:** Yes  
**Beam angle:** 120°  
**IP rate:** IP65  
**Length:** 62 mm  
**Width:** 17 mm  
**Height:** 2,8 mm  
**Connection Type:** Stripped wire



ART. NR.	COLOR TEMP. (CCT)	LIGHT COLOR	LUMINOUS FLUX
125-000	n/a	● RGB	n/a

## BACKGROUND MODULE | RGBW | 3000K

**Input voltage:** 12V  
**Power:** 0,96 Watt  
**Module qty:** 50 modules / 7 meter  
**Max. to connect:** 20  
**LED qty per module:** 3  
**LED type:** SMD5050  
**Dimmable:** Yes

**Beam angle:** 160°  
**IP rate:** IP65  
**Length:** 81 mm  
**Width:** 17,5 mm  
**Height:** 8,2 mm  
**Connection Type:** Stripped wire



ART. NR.	COLOR TEMP. (CCT)	LIGHT COLOR	LUMINOUS FLUX
125-010	RGBW	● RGB +Warm white	n/a

## BACKGROUND MODULE | 7000K

**Input voltage:** 12V  
**Power:** 0,4 Watt  
**Module qty:** 50 modules / 8,5 meter  
**Max. to connect:** 20  
**LED qty per module:** 1  
**LED type:** SMD2835

**Dimmable:** Yes  
**Beam angle:** 170°  
**IP rate:** IP66  
**Length:** 36 mm  
**Width:** 17,5 mm  
**Height:** 6,2 mm  
**Connection Type:** Stripped wire



ART. NR.	COLOR TEMP. (CCT)	LIGHT COLOR	LUMINOUS FLUX
125-061	7000K	○ Cold white	40 Lm



*Blokker store with brand logo lighted by Background Modules*

# Advertising & Signing | Neon flex PRO

## Neon Flex Professional: the best alternative to conventional Neon lighting

Neon Flex is a high quality, flexible rope light with the apparent looks of conventional neon light. High durability, low energy consumption and exceptional flexibility makes Neon Flex the perfect alternative to conventional fluorescent neon lighting.

- Availability in 6 Colors & RGB
- Dimensions on request
- Plug & Play due moulded Power cable (3 meters)
- IP68, Flame-, saltwater-, solvents- and UV resistant
- SMD5050 LED & PCB housing

Limited availability, order on request

## Neon Flex Professional: het conventionele Neon verlichting alternatief

Neon Flex is een hoge kwaliteit, flexibele lichtslang met het uiterlijk van conventioneel neonlicht. Lange levensduur, laag energieverbruik én uitzonderlijke flexibiliteit maakt Neon Flex een perfect alternatief voor fluoriserende neon verlichting.

- Verkrijgbaar in 6 kleuren & RGB
- Afmetingen op aanvraag
- Plug & Play door gegoten aansluitkabel (3 meter)
- IP68, vlam-, zoutwater-, oplosmiddel- en UV resistent
- SMD5050 LED & PCB behuizing

Beperkte voorraad, op aanvraag leverbaar



# Neon flex PRO | Advertising & Signing

LIMITED  
AVAILABILITY,  
ORDER ON  
REQUEST



## DIGITAL RGB

The power of light communication



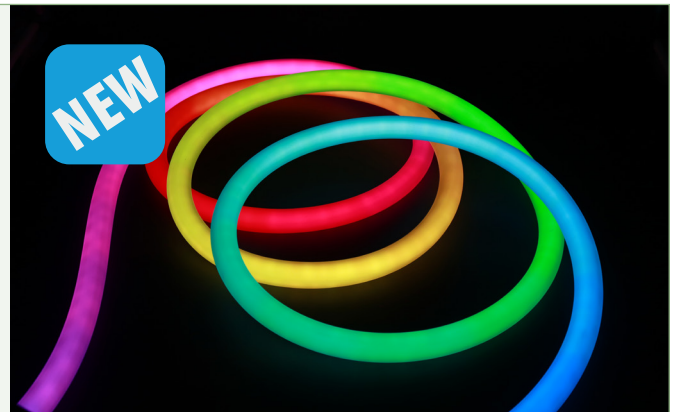
- Dimensions on request
- IP68, flame-, saltwater-, solvents- and UV resistant
- WCS2903 IC, SPI signal input. Controller: DMX512 signal compatible, DMX adress writable or programmable

## NEW: BLACK 360°

High-quality lighting in a black tube

Extremely well suited for various decorative applications. Easy to customize, available with various light colors and fully adjustable to your liking.

More information or advice?  
sales@tronixlighting.com | +31 (0)413 33 03 80

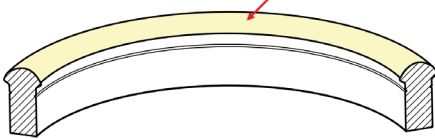


### NEON FLEX PRO

Available in White, Warm White, Blue, Green, Red, Amber and Yellow



Light Surface

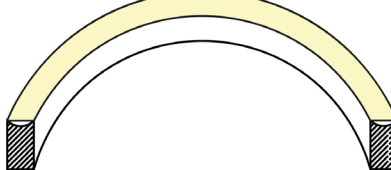


### NEON FLEX FLAT

Available in White, Warm White and RGB



Light Surface

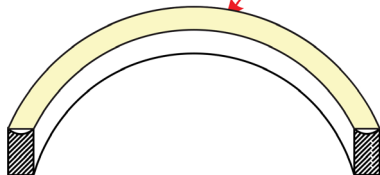


### NEON MINI FLAT

Available in White and Warm White



Light Surface

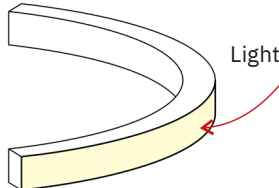


### NEON FLEX UP & DOWN

Available in White and Warm White



Light Surface



#### FIND OUT MORE ABOUT NEON FLEX AND THE BEST CHOICE FOR YOUR APPLICATION?

We are happy to advice and futher assist you at sales@tronixlighting.com | +31 (0)413 33 03 80

#### MEER WETEN OVER NEON FLEX EN DE BESTE KEUZE VOOR UW TOEPASSING?

Wij helpen u graag verder op sales@tronixlighting.com | +31 (0)413 33 03 80







# 5 RGB fixtures

Drawing attention to large  
surfaces and buildings







*Architectural company building with aluminium construction panels illuminated by Tronix Wall Washers (Art.nr. 190-090) Kusters Oss - The Netherlands*

# Wall Washers | RGB Fixtures

## WALL WASHER | RGBW | 1 METER

Powerful 48W illumination with ultra-bright lighting effect



**Input voltage:** 24V / DMX  
**Power:** 48 Watt  
**LED qty:** 24  
**Beam angle:** 25° x 45°  
**IP rate:** IP66  
**Connection type:** Modular plug  
**Wire length:** 30 cm in, 30 cm out.  
**Material:** Aluminium, Black

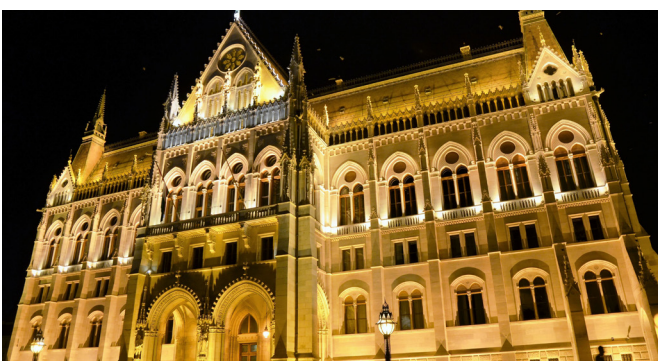


ART. NR.	SIZE	COLOR TEMP. (CCT)	LIGHT COLOR	LUMINOUS FLUX	WIRE LENGTH
190-120	1000 x 58 x 124 mm	3000K	RGB	2160 Lm (Full on)	50 cm in 50 cm out

ART. NR.	ACCESSORIES
190-127	Power/DMX cable   Power cable   Male   3m   for 190-120
190-128	Power/DMX cable   Power cable   Female   3m   for 190-120
190-125	Power/DMX cable   Extension cable   1m   for 190-120
190-126	Power/DMX cable   Extension cable   5m   for 190-120
190-129	Power/DMX cable   Endcap for 190-120



\*Wiring diagram Wall Washers



### RGBW ALUMINIUM WALL WASHER 1M

Designed for a high-powered color wash that can easily illuminate several metres down walls or across ceilings, this wall washer is ideal for signage and lighting of e.g. hotels, restaurants, clubs and bars.

Create any imaginable color light shade effect mixing red, blue, green and white led's right at the source.

- **Powerful 48W** illumination with ultra-bright lighting effect
- **With 18 RGBW** Samsung Led's p/m and 25x45° optic lens for maximum light reach
- **IP66** water-resistant and dustproof for outdoor use
- **Easy controlling** with Tronix DMX Controller Art. 214-135 (also compatible with any other brand DMX controller)
- **Power up to 3 pcs** with just one power supply and up to 6 pcs with one on each end.
- **Equipped with rotating fixing brackets:** screw in position and fix on the right angle.



*Tronix RGBW Spot illuminates tree  
in private residential garden*

# Spots | RGB Fixtures

## SPOT | 24V | 24W | 30° | IP66 | RGBW | DMX512

Powerful 24W illumination with ultra-bright lighting effect. Perfect to illuminate buildings, objects or trees.



**Input voltage:** 24V / DMX

**Power:** 24 Watt

**LED qty:** 3

**LED type:** Osram

**Beam angle:** 30°

**IP rate:** IP66

**Connection type:** Modular plug

**Wire length:** 25 cm in, 25 cm out.

**Material:** Aluminium, Black coated



ART. NR.	SIZE	COLOR TEMP. (CCT)	LIGHT COLOR	LUMINOUS FLUX	WIRE LENGTH
190-150	270 x Ø130/111 mm	3000K	RGB	480 Lm (Warm white) 840 Lm (RGB Full on)	25 cm in 25 cm out

ART. NR.	ACCESSORIES
190-094	Power cable 24V/DMX   3M   IP65   Male Plug
190-095	Power cable 24V/DMX   3M   IP65   Female Plug
190-096	Extension cable 24V/DMX   1M   IP65   Male/Female Plug
190-097	Extencion cable 24V/DMX   5M   IP65   Male/Female Plug
190-098	T-connector 24V/DMX   IP65   1x Male 2x Female Plug
190-100	Power/DMX cable   Endcap for Wall Washer 190-150



\*Wiring diagram RGB Spot



*Tronix RGBW Spot illuminates tree  
in private residential garden*



# Spots | RGB Fixtures

## GROUNDSPOT | 24V | 40W | 30° | IP67 | RGBW | DMX512

Powerful 40W illumination with ultra-bright lighting effect. Perfect to illuminate buildings, objects or trees.



**Input voltage:** 24V / DMX  
**Power:** 40 Watt  
**LED qty:** 4  
**Beam angle:** 30°  
**IP rate:** IP67  
**IK rate:** IK10  
**Connection type:** Modular plug  
**Wire length:** 50 cm in, 50 cm out.  
**Material:** Aluminium



ART. NR.	SIZE	COLOR TEMP. (CCT)	LIGHT COLOR	LUMINOUS FLUX	WIRE LENGTH
190-140	209 x Ø215/203 mm	3000K	RGB	1600 Lm (Full on)	50 cm in 50 cm out



\*Wiring diagram RGB Spot

## SPOT | 24V | 20W | 30° | IP66 | RGBW | DMX512

Powerful 24W illumination with ultra-bright lighting effect. Perfect to illuminate buildings, objects or trees.



**Input voltage:** 24V / DMX  
**Power:** 20 Watt  
**LED qty:** 4  
**Beam angle:** 30°  
**IP rate:** IP66  
**Connection type:** Modular plug  
**Wire length:** 50 cm in, 50 cm out.  
**Material:** Aluminium, Black coated



ART. NR.	SIZE	COLOR TEMP. (CCT)	LIGHT COLOR	LUMINOUS FLUX	WIRE LENGTH
190-130	182 x 125 mm	3000K	RGB	900 Lm (Full on)	50 cm in 50 cm out

### ART. NR. ACCESSORIES

190-162	Power/DMX cable   Power cable   Male   3m   for 190-130/140
190-163	Power/DMX cable   Power cable   Female   3m   for 190-130/140
190-160	Power/DMX cable   Extension cable   1m   for 190-130/140
190-161	Power/DMX cable   Extension cable   5m   for 190-130/140
190-164	Power/DMX cable   Endcap for 190-130/140



\*Wiring diagram RGB Spot

# Register

120-109.....	65	127-145.....	62	127-403.....	64	148-132.....	69
125-000.....	76	127-146.....	62	127-405.....	64	148-133.....	69
125-010.....	76	127-150.....	62	127-406.....	64	148-149.....	68
125-061.....	76	127-151.....	62	127-408.....	64	148-150.....	68
125-071.....	76	127-152.....	62	127-409.....	64	148-151.....	68
125-078.....	76	127-155.....	60	127-411.....	64	148-152.....	68
127-010.....	56	127-156.....	60	127-413.....	64	148-153.....	68
127-013.....	54	127-157.....	60	127-414.....	64	148-155.....	68
127-014.....	54	127-158.....	60	127-415.....	64	148-162.....	71
127-041.....	54	127-160.....	60	127-416.....	64	148-163.....	71
127-057.....	54	127-161.....	60	127-417.....	64	148-164.....	71
127-058.....	54	127-162.....	60	127-418.....	64	148-165.....	71
127-059.....	54	127-163.....	60	127-419.....	64	148-169.....	71
127-060.....	54	127-164.....	60	127-421.....	64	148-170.....	68
127-065.....	54	127-165.....	60	127-422.....	64	148-171.....	68
127-066.....	54	127-166.....	60	127-424.....	64	148-172.....	68
127-070.....	56	127-167.....	60	127-425.....	64	148-173.....	68
127-075.....	57	127-168.....	60	127-428.....	64	148-174.....	68
127-078.....	54	127-169.....	60	127-429.....	64	148-175.....	68
127-079.....	57	127-171.....	54	127-430.....	64	148-180.....	68
127-082.....	54	127-172.....	54	127-431.....	64	148-181.....	68
127-084.....	57	127-173.....	54	127-432.....	64	148-182.....	68
127-085.....	57	127-174.....	54	127-433.....	64	148-183.....	68
127-086.....	57	127-181.....	55	127-439.....	64	148-184.....	68
127-088.....	54	127-182.....	55	127-440.....	64	148-190.....	71
127-089.....	54	127-183.....	55	127-442.....	64	148-191.....	71
127-092.....	55	127-189.....	56	127-444.....	64	148-192.....	71
127-093.....	55	127-190.....	55	127-445.....	64	148-193.....	71
127-094.....	55	127-191.....	55	127-447.....	64	148-194.....	68
127-095.....	55	127-192.....	55	127-450.....	64	148-195.....	68
127-096.....	55	127-193.....	55	127-451.....	64	190-094.....	87
127-099.....	56	127-194.....	55	127-452.....	64	190-095.....	87
127-101.....	56	127-195.....	55	127-453.....	64	190-096.....	87
127-104.....	56	127-196.....	55	127-454.....	64	190-097.....	87
127-115.....	58	127-197.....	55	148-111.....	68	190-098.....	87
127-118.....	54	127-198.....	55	148-119.....	68	190-100.....	87
127-119.....	54	127-250.....	65	148-120.....	69	190-120.....	85
127-121.....	60	127-251.....	65	148-122.....	69	190-125.....	85
127-122.....	60	127-252.....	65	148-123.....	69	190-126.....	85
127-123.....	60	127-270.....	65	148-124.....	69	190-127.....	85
127-124.....	60	127-272.....	65	148-125.....	69	190-128.....	85
127-129.....	61	127-277.....	65	148-126.....	69	190-129.....	85
127-133.....	61	127-288.....	65	148-127.....	69	190-130.....	89
127-134.....	61	127-289.....	65	148-128.....	69	190-140.....	89
127-138.....	56	127-400.....	64	148-129.....	69	190-150.....	87
127-140.....	62	127-401.....	64	148-130.....	69	190-160.....	89
127-144.....	62	127-402.....	64	148-131.....	69	190-161.....	89

# Register

190-162	89	214-177	29	214-357	28	215-281	16
190-163	89	214-178	44	214-950	40	215-282	16
190-164	89	214-179	22	214-999	40	215-295	30
214-018	17	214-181	46	215-002	13	215-296	30
214-051	50	214-182	48	215-003	17	215-315	14
214-052	50	214-183	48	215-004	17	215-316	14
214-055	51	214-184	43	215-005	13	215-317	14
214-056	51	214-185	46	215-006	13	215-318	14
214-057	51	214-186	42	215-009	13	215-319	14
214-058	51	214-190	28	215-010	13	215-320	16
214-113	46	214-199	33	215-011	13	215-321	16
214-118	40	214-202	33	215-012	13	215-322	16
214-120	50	214-203	33	215-013	13	215-323	16
214-130	42	214-204	33	215-014	17	215-324	16
214-131	42	214-205	32	215-015	17	215-325	16
214-132	43	214-206	31	215-016	17	215-379	16
214-133	43	214-207	31	215-019	17	215-380	16
214-134	42	214-208	31	215-081	14	215-403	13
214-135	48	214-209	31	215-082	14	215-404	17
214-136	22	214-214	32	215-083	14	215-408	13
214-137	22	214-215	32	215-084	14	215-412	12
214-139	48	214-216	30	215-131	19	215-414	13
214-141	46	214-231	33	215-133	24	215-421	13
214-142	44	214-232	33	215-134	29	215-422	13
214-143	45	214-250	38	215-160	12	215-423	13
214-144	42	214-255	38	215-161	12	215-424	13
214-145	42	214-257	38	215-162	12	215-425	13
214-146	42	214-260	37	215-163	12	215-430	14
214-147	43	214-261	37	215-205	20	215-601	23
214-151	43	214-262	36	215-206	21	215-602	23
214-152	42	214-268	37	215-211	12	215-603	23
214-153	45	214-270	38	215-212	12	215-605	27
214-155	44	214-271	39	215-214	16	215-606	27
214-156	29	214-275	39	215-220	12	215-621	23
214-157	44	214-276	39	215-221	12	215-622	23
214-158	43	214-277	39	215-222	12	215-623	23
214-159	44	214-300	34	215-265	26	215-625	26
214-166	45	214-305	34	215-266	26	215-641	27
214-167	45	214-315	34	215-267	27	215-642	27
214-168	44	214-350	28	215-268	26	215-646	27
214-169	44	214-351	28	215-269	27	215-681	47
214-172	44	214-352	28	215-271	26	215-685	28
214-173	42	214-353	47	215-272	26	485-055	65
214-174	43	214-354	23	215-273	26		
214-175	44	214-355	28	215-279	16		
214-176	29	214-356	28	215-280	16		











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