

*Iluminamos  
tu día a día*

*We brighten up  
your day to day*

**BOEL-TRONIC<sup>®</sup>**

Soluciones electrónicas para iluminación  
*Electronic & Lighting Solutions*

**2026**



En **BOEL-TRONIC** trabajamos cada día para ofrecer soluciones electrónicas y de iluminación LED que combinan **tecnología, eficiencia y diseño**.

Este catálogo reúne nuestra gama más completa de **tiras LED, perfiles de aluminio, fuentes de alimentación, electrónica y accesorios**, junto con **desarrollos** adaptados a sectores específicos.



Con una sólida experiencia en **I+D+i y fabricación propia**, garantizamos a nuestros clientes **productos fiables, versátiles y competitivos**, pensados tanto para la **industria** como para el mundo de la **arquitectura, el interiorismo y la distribución profesional**.

¿Por qué trabajar con nosotros?

- Somos **FABRICANTES**
- Somos **COMPETITIVOS EN COSTES**
- Conocemos el **MERCADO**
- Control de todo el **PROCESO DE FABRICACIÓN**
- **RÁPIDA** respuesta
- **CORTOS** plazos de entrega
- Cumplimos con los **ESTANDARES EUROPEOS DE CALIDAD**
- Realizamos **PRODUCTOS PERSONALIZADOS (OEM y CONTRACT)**



**BOEL-TRONIC, iluminamos tus proyectos con innovación y confianza.**



At **BOEL-TRONIC**, we work every day to deliver electronic and LED lighting solutions that combine **technology, efficiency and design**.

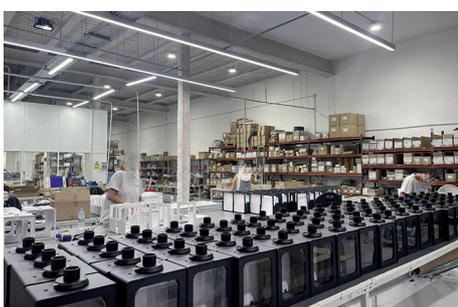
This catalogue brings together our most comprehensive range of **LED strips, aluminium profiles, power supplies, electronics, and accessories**, along with developments tailored to specific sectors.

With strong expertise in **R&D and in-house manufacturing**, we guarantee our clients **reliable, versatile and competitive products**, designed both for **industry** and for the world of **architecture, interior design and professional distribution**.

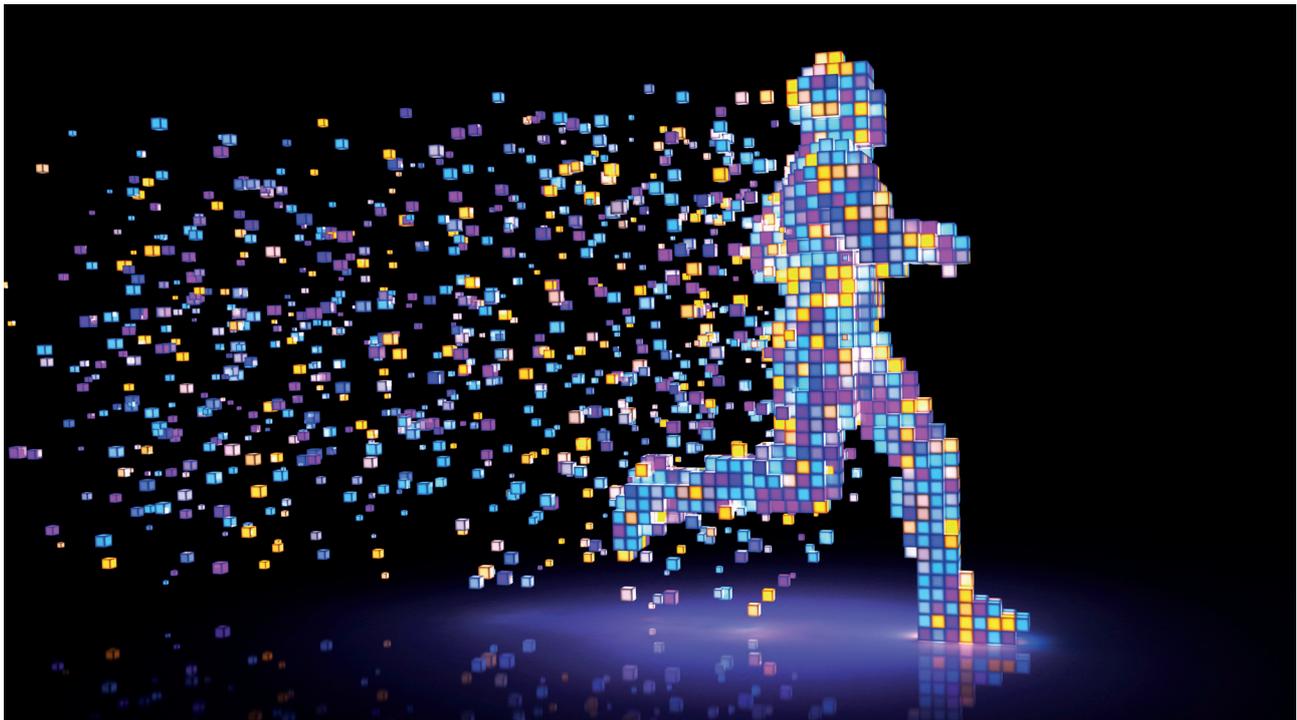


**Why work with us?**

- We are **MANUFACTURERS**
- We are **COST COMPETITIVE**
- We know the **MARKET**
- Control of the entire **MANUFACTURING PROCESS**
- **FAST** response
- **SHORT** delivery times
- We comply with **EUROPEAN QUALITY STANDARDS**
- We make **CUSTOMIZED PRODUCTS (OEM and CONTRACT)**



**BOEL-TRONIC, lighting up your projects with innovation and trust.**



No todos los equipos electrónicos son iguales, la gran diferencia es la calidad de los componentes. En **BOEL-TRONIC**, como fabricantes de equipos de control y tiras LED, lo sabemos muy bien. Por eso invertimos mucho tiempo y esfuerzo en conseguir que nuestros productos sean de la mayor calidad posible, a un precio competitivo.

La mayoría de los productos que ofrecemos están montados en nuestras instalaciones, para conseguir el mayor control de calidad y verificación, en cada uno de los procesos de fabricación. Esta forma de trabajar nos proporciona una gran confianza para realizar cualquier proyecto nuevo, tanto en desarrollos propios como en los que realizamos para nuestros clientes.

Disponemos de todos los elementos necesarios para completar de forma fácil y segura, sus proyectos de iluminación en:

- Decoración de interiores
- Decoración de exteriores, terrazas, parasoles y jardines
- Expositores, PLV, lineales de estanterías
- Espejos y mobiliario en general
- Aplicaciones personalizadas

*Not all electronic equipment is the same, the big difference is the quality of the components.*

*At **BOEL-TRONIC**, as manufacturers of control equipment and LED strips, we know this very well. That is why we invest a lot of time and effort in ensuring that our products are of the highest possible quality, at a competitive price.*

*Most of the products we offer are assembled in our facilities, to maintain the highest quality control and verification in each of the manufacturing processes.*

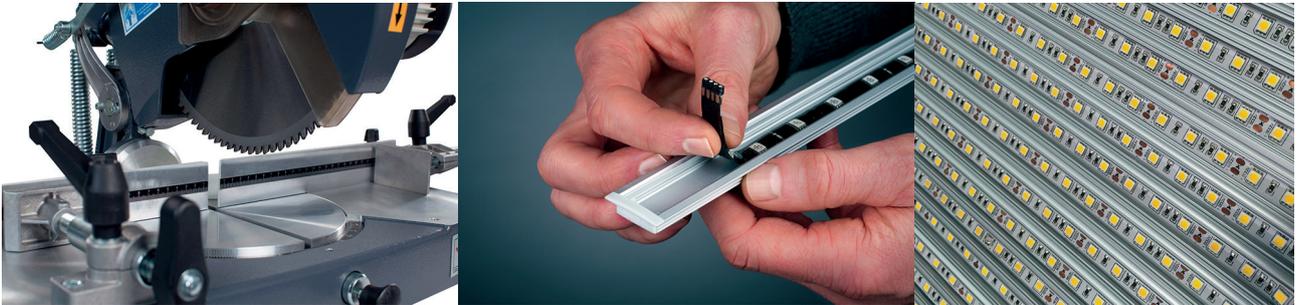
*This way of working gives us great confidence to carry out any new project, both in our own developments and in those we carry out for our clients.*

*We have all the necessary elements to easily and safely complete your lighting projects in:*

- Interior decoration
- Exterior decoration, terraces, parasols and gardens
- Exhibitors, POS, linear shelves
- Mirrors and furniture in general
- Custom applications

# FABRICACIÓN A MEDIDA

## CUSTOMIZED LED PROFILES



Fabricados a medida - Totalmente personalizados

Tiras de LEDs montadas en perfil de aluminio, de fácil instalación. Ideales para su montaje en estanterías, muebles, expositores, cocinas, pasillos, ...

Los montajes se pueden servir de una sola pieza (sin juntas ni uniones) hasta los 6 metros (dependiendo del modelo), pudiendo fabricarse a la medida exacta solicitada.

Se les puede acoplar reguladores, sensores o electrónica complementaria para conseguir el efecto deseado.

Plazo de entrega de 2 a 7 días aproximado. Pedidos grandes, consultar

### Customized led profiles

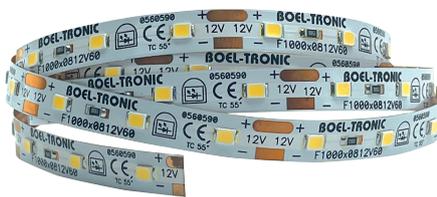
LED strips mounted on aluminium profile, easy to install. Ideal for mounting on shelves, furniture, exhibitors, kitchens, corridors, ...

The manufactured products can be served in one piece (no joints or seams) up to 6 meters (depending on model) and may be made to the exact size required.

Dimmers, complementary sensors or electronic can be coupled to achieve the desired effect. Delivery from 2 to 7 days. Big orders, please inquire.



Elija el perfil y su tamaño  
(hasta 6 m. y desde solo 1 unidad)  
*Choose the led profile and size  
(up to 6 meters and from 1 unit only)*



Elija el modelo de Led  
(potencia, monocolor, RGB)  
*Choose the led strip  
(power, monochrome, RGB)*



Elija los complementos:  
(sensores, dimmer, switch, conectores)  
*Choose the accessories:  
(sensors, dimmer, switch, connectors)*

# CONEXIONES ELÉCTRICAS A MEDIDA

## CUSTOM ELECTRICAL CONNECTIONS



En BOEL-TRONIC, ofrecemos un servicio personalizado para las conexiones eléctricas, con instalaciones rápidas, sencillas y adaptadas a cada cliente.

Además, podemos integrar nuestra propia electrónica para facilitar aún más el conexionado, garantizando soluciones seguras, eficientes y cumpliendo siempre con la normativa vigente.

Le asesoramos para lograr la máxima confianza y satisfacción.

*At BOEL-TRONIC, we offer a personalized service for electrical connections, with quick, easy, and customized installations.*

*In addition, we can integrate our own electronics to make connection even easier, guaranteeing safe, efficient solutions that always comply with current regulations.*

*We advise you to achieve maximum confidence and satisfaction.*



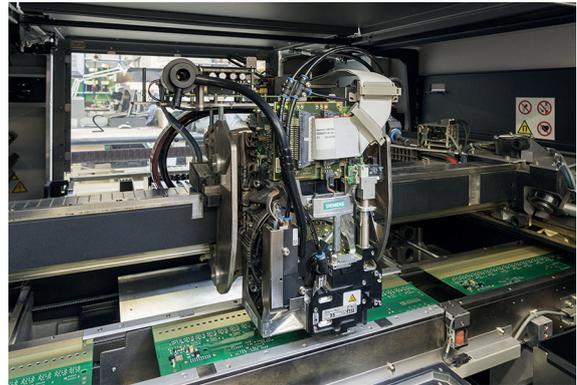
# MONTAJE

## MONTAJE SMT

Realizamos montaje de componentes SMD mediante tres líneas independientes compuestas por:

- Deposición de pasta de soldadura
- Inserción automática (Pick & Place)
- Horno de refusión

Estas líneas diferenciadas nos proporcionan una gran versatilidad en el montaje de series cortas, medias y largas de hasta 1.500 mm de longitud.

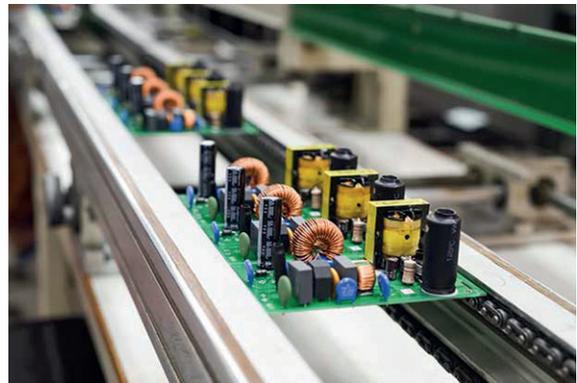


## MONTAJE CONVENCIONAL THT/MIXTO

Para los circuitos con montaje mixto o sólo en convencional, tenemos una línea de inserción manual, y según cada caso, procedemos a la soldadura mediante:

- Máquina de soldadura por ola
- Manualmente

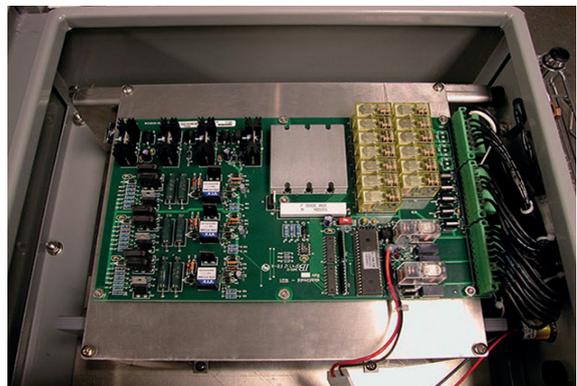
La finalización del proceso se realiza según las especificaciones del cliente.



## MONTAJE ELECTROMECÁNICO

Disponemos de tres líneas de ensamblaje, con amplia experiencia, con las que adaptamos a sus necesidades en:

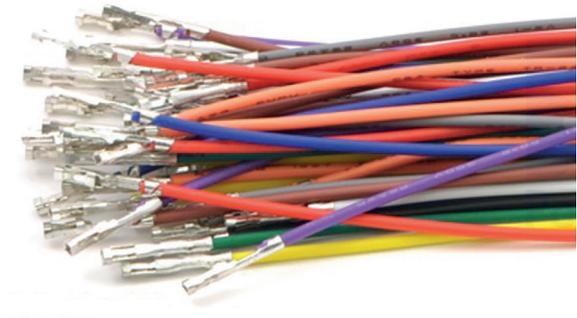
- Ensamblaje y conexionado de circuitos
- Interconexión de componentes eléctricos
- Fijación de elementos mecánicos
- Verificación funcional
- Etiquetado y embalaje
- Envío, nacional o internacional



## CABLEADO Y CRIMPADO DE TERMINALES

Con máquinas semiautomáticas de alta calidad realizamos los siguientes trabajos:

- Corte y desforrado de mangueras
- Corte, pelado y estañado de cables unifilares y paralelos de varias secciones
- Crimpado de multitud de tipos de terminales



# ASSEMBLY

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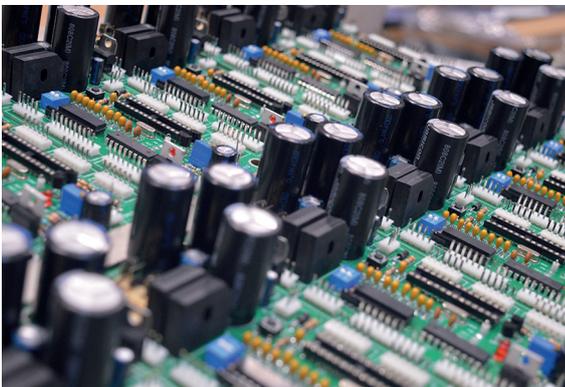


## **SMT ASSEMBLY**

We assemble SMD components using three independent lines composed of:

- Solder paste deposition
- Automatic insertion (Pick & Place)
- Reflow soldering machine

These differentiated lines provide us with great versatility assembly short, medium and long series up to 1.500 mm length.



## **CONVENTIONAL THT / MIXED ASSEMBLY**

For circuits with only conventional or mixed assembly, we have a manual insertion line and according to each case, we proceed to welding by:

- Wave soldering machine
- Manually

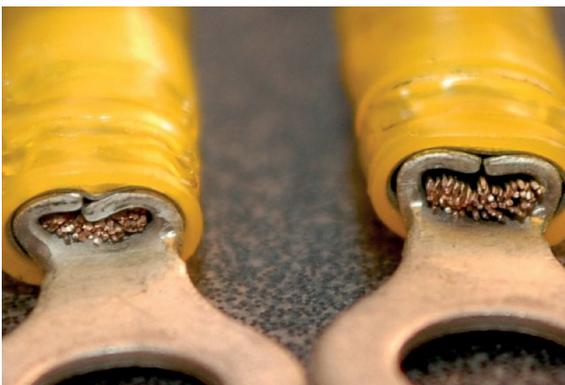
The completion of the process is carried out according to customer specifications.



## **ELECTROMECHANICAL ASSEMBLY**

We have three assembly lines, with long experience, with which to adapt to your needs in:

- Assembly and connection of circuits
- Interconnection of electrical components
- Fixing of mechanical elements
- Functional verification
- Labeling and packaging
- Shipping, national or international



## **WIRING & CRIMPING TERMINALS**

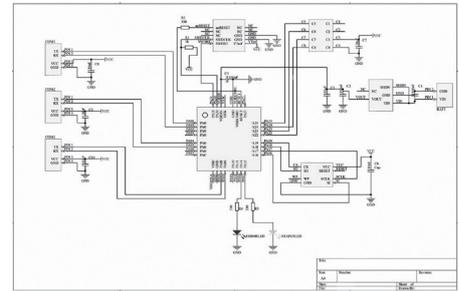
With high-quality semi-automatic machines we carry out the following work:

- Cutting & stripping multi-core cables
- Cutting, stripping and tinning single-core and parallels cables of different sections
- Crimping of many types of terminals



Nuestra oficina técnica cuenta con un equipo profesional ampliamente experimentado y un laboratorio con tecnología avanzada en constante evolución. Combinado con nuestros productos de fabricación propia nos permite afrontar cualquier proyecto nuevo o modificación de un producto existente con la máxima garantía de éxito.

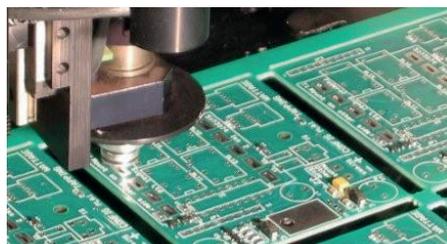
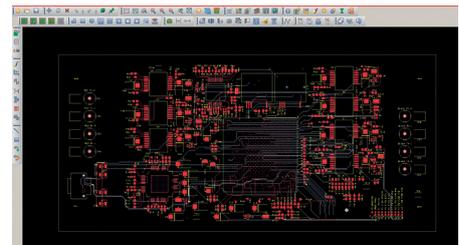
- Desarrollo de proyectos
- Diseño de circuitos impresos
- Software de continuidad
- Montaje y verificación de prototipos
- Adaptación de circuitos (OEM y CUSTOM)



*Our technical office has a highly experienced professional team and a laboratory with advanced technology in constant evolution.*

*Combined with our own manufactured products, it allows us to face any new project or modification of an existing product with the maximum guarantee of success.*

- Project development
- PCB Design
- Software custom to your needs
- Assembly and verification of prototypes
- Electronic circuits (OEM and CUSTOM)

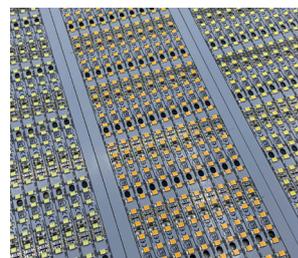




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**PERFILES DE ALUMINIO**  
 ALUMINIUM PROFILES



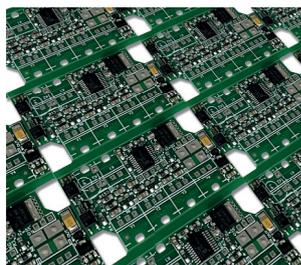
Pag. **29**  
**TIRAS LED FLEXIBLES**  
 FLEXIBLE LED STRIPS



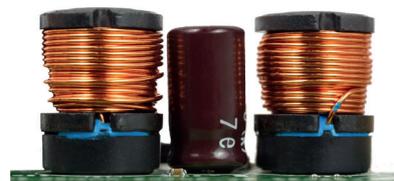
Pag. **53**  
**TIRAS LED RÍGIDAS**  
 RIGID LED STRIPS



Pag. **71**  
**FUENTES y BATERIAS**  
 POWER SUPPLIES & BATTERIES



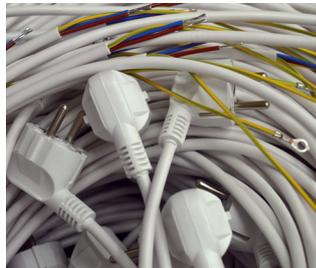
Pag. **81**  
**ELECTRÓNICA PARA LEDS**  
 ELECTRONICS FOR LEDS



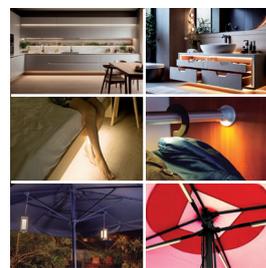
Pag. **95**  
**ELECTRÓNICA VAC**  
 VAC ELECTRONICS



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**ACCESORIOS**  
 ACCESSORIES



Pag. **107**  
**CABLES y CLAVIJAS**  
 CABLES & PLUGS



Pag. **111**  
**KITS DE ILUMINACIÓN**  
 LIGHTING KITS



Pag. **121**  
**SEÑALIZACIÓN LED**  
 LED SIGNAGE



Pag. **125**  
**ILUMINACIÓN LED PARA VEHÍCULOS**  
 LED LIGHTING FOR VEHICLES



Pag. **134**  
**EXPOSITORES**  
 POINT-OF-SALE DISPLAY

# PERFILES DE ALUMINIO

ALUMINIUM PROFILES





PAS0812



PAS1207



PAS1212



PAS1707



PAS1715



PAS3211



ARC20



PAL3330



PAL5353



PES1614



PAE2507



PAE1912



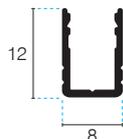
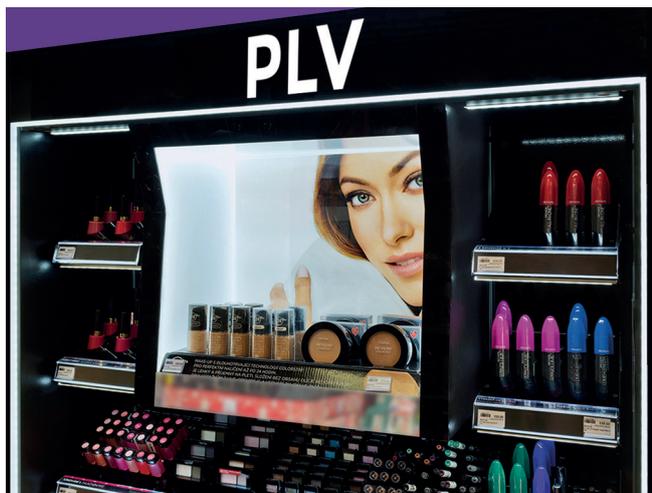
PAC1818



PAR1311



PAR2828



escala 1:1



Admite tiras LED max. (LED strip supports max.): 1 x 5 mm  
 Longitud máxima (maximum length): 3 mts

**PERFILES / PROFILES**

|          |  |   |
|----------|--|---|
| PAS0812N | Perfil para montaje en superficie 7.8 x 12 mm negro mate<br>Profile for surface mount 7.8 x 12 mm anodized black                 |    |
| PAS0812B | Perfil para montaje en superficie 7.8 x 12 mm blanco brillo RAL9010<br>Profile for surface mount 7.8 x 12 mm gloss white RAL9010 |  |
| PAS0812G | Perfil para montaje en superficie 7.8 x 12 mm plata mate<br>Profile for surface mount 7.8 x 12 mm anodized silver                |  |

**DIFUSORES / COVERS**

|         |   |   |
|---------|---|---|
| DIO605B | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover |  |
|---------|---|---|

**ACCESORIOS / ACCESSORIES**

|          |  |   |   |
|----------|--|---|---|
| TA0812N  | Tapa final sin agujero negra / Black end cap without hole                    |  |  |
| TA0812B  | Tapa final sin agujero blanca / White end cap without hole                   |  |   |
| TA0812G  | Tapa final sin agujero gris / Grey end cap without hole                      |  |   |
| TA0812AN | Tapa final con agujero negra / Black end cap with hole                       |  |   |
| TA0812AB | Tapa final con agujero blanca / White end cap with hole                      |  |   |
| TA0812AG | Tapa final con agujero gris / Grey end cap with hole                         |  |   |
| GR0808   | Grapa de Plástico para Fijación de perfil<br>Plastic clip for profile fixing |  |   |



Admite tiras LED max. (LED strip supports max.): 1 x 8 mm  
 Longitud máxima (maximum length): 2 mts

**PERFILES / PROFILES**

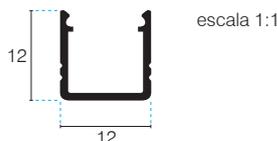
|          |  |   |
|----------|--|---|
| PAS1207N | Perfil para montaje en superficie 12.2 x 7 mm negro mate<br>Profile for surface mount 12.2 x 7 mm anodized black                 |    |
| PAS1207B | Perfil para montaje en superficie 12.2 x 7 mm blanco brillo RAL9010<br>Profile for surface mount 12.2 x 7 mm gloss white RAL9010 |  |
| PAS1207G | Perfil para montaje en superficie 12.2 x 7 mm plata mate<br>Profile for surface mount 12.2 x 7 mm anodized silver                |  |

**DIFUSORES / COVERS**

|         |  |   |
|---------|--|---|
| DI1001B | Difusor policarbonato deslizante Opal / Blanco<br>White polycarbonate slider diffuser cover              |  |
| DI1001S | Difusor policarbonato deslizante Semitransparente<br>Semitransparent polycarbonate slider diffuser cover |  |
| DI1001T | Difusor policarbonato deslizante Transparente<br>Transparent polycarbonate slider diffuser cover         |  |

**ACCESORIOS / ACCESSORIES**

|          |   |   |   |
|----------|---|---|---|
| TA1207N  | Tapa final sin agujero negra / Black end cap without hole             |  |  |
| TA1207B  | Tapa final sin agujero blanca / White end cap without hole            |  |  |
| TA1207G  | Tapa final sin agujero gris / Grey end cap without hole               |  |  |
| TA1207AN | Tapa final con agujero negra / Black end cap with hole                |  |  |
| TA1207AB | Tapa final con agujero blanca / White end cap with hole               |  |  |
| TA1207AG | Tapa final con agujero gris / Grey end cap with hole                  |  |  |
| GR1613   | Grapa de Zinc para Fijación de perfil<br>Zinc clip for profile fixing |  |  |



Admite tiras LED max. (LED strip supports max.): 1 x 8 mm  
 Longitud máxima (maximum length): 3 mts

**PERFILES / PROFILES**

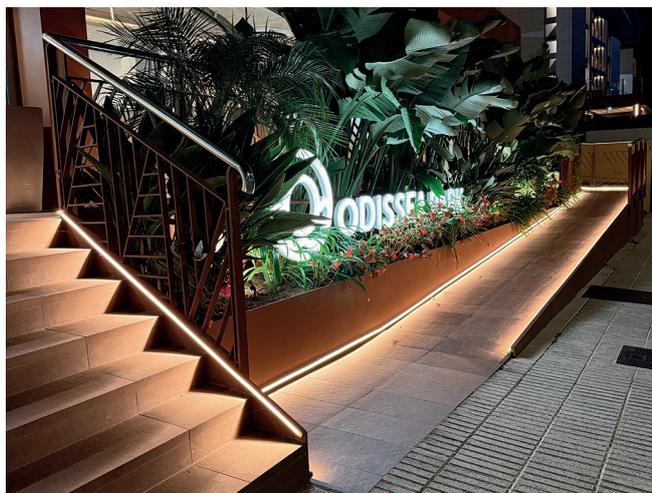
|          |  |  |
|----------|--|--|
| PAS1212N | Perfil para montaje en superficie 12 x 12 mm negro mate<br>Profile for surface mount 12 x 12 mm anodized black                 |  |
| PAS1212B | Perfil para montaje en superficie 12 x 12 mm blanco brillo RAL9010<br>Profile for surface mount 12 x 12 mm gloss white RAL9010 |  |
| PAS1212G | Perfil para montaje en superficie 12 x 12 mm plata mate<br>Profile for surface mount 12 x 12 mm anodized silver                |  |

**DIFUSORES / COVERS**

|         |  |  |
|---------|--|--|
| DI1003B | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover      |  |
| DI1003T | Difusor policarbonato Transparente<br>Transparent polycarbonate diffuser cover |  |

**ACCESORIOS / ACCESSORIES**

|             |   |  |  |
|-------------|---|--|--|
| TA1212N     | Tapa final sin agujero negra / Black end cap without hole   |  |  |
| TA1212B     | Tapa final sin agujero blanca / White end cap without hole  |  |  |
| TA1212G     | Tapa final sin agujero gris / Grey end cap without hole   |  |  |
| TA1212AN    | Tapa final con agujero negra / Black end cap with hole  |  |  |
| TA1212AB    | Tapa final con agujero blanca / White end cap with hole   |  |  |
| TA1212AG    | Tapa final con agujero gris / Grey end cap with hole  |  |  |
| GR1613      | Grapa de Zinc para Fijación de perfil<br>Zinc clip for profile fixing                                 |  |  |
| SOPLAT1212N | SET 2 soportes lat plast negros + 2 tornillos<br>SET of 2 black plastic side supports + 2 screws      |  |  |
| SOPLAT1212B | SET 2 soportes lat plast blancos + 2 tornillos<br>SET of 2 white plastic side supports + 2 screws     |  |  |
| SOPLAT1212G | SET 2 soportes lat plast grises + 2 tornillos<br>SET of 2 gray plastic side supports + 2 screws       |  |  |
| SOPSUP1212N | SET 2 soportes superior plast negros + 2 tornillos<br>SET of 2 black plastic top supports + 2 screws  |  |  |
| SOPSUP1212B | SET 2 soportes superior plast blancos + 2 tornillos<br>SET of 2 white plastic top supports + 2 screws |  |  |
| SOPSUP1212G | SET 2 soportes superior plast grises + 2 tornillos<br>SET of 2 gray plastic top supports + 2 screws   |  |  |



Admite tiras LED max. (LED strip supports max.): 1 x 12 mm  
 Longitud máxima (maximum length): 6 mts

**PERFILES / PROFILES**

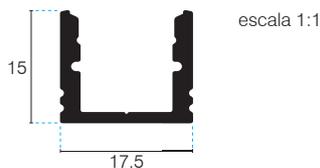
|          |  |   |
|----------|--|---|
| PAS1707N | Perfil para montaje en superficie 17.5 x 7 mm negro mate<br>Profile for surface mount 17.5 x 7 mm anodized black                 |    |
| PAS1707B | Perfil para montaje en superficie 17.5 x 7 mm blanco brillo RAL9010<br>Profile for surface mount 17.5 x 7 mm gloss white RAL9010 |  |
| PAS1707G | Perfil para montaje en superficie 17.5 x 7 mm plata mate<br>Profile for surface mount 17.5 x 7 mm anodized silver                |  |

**DIFUSORES / COVERS**

|         |  |   |
|---------|--|---|
| DI1405B | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover              |  |
| DI1405S | Difusor policarbonato Semitransparente<br>Semitransparent polycarbonate diffuser cover |  |
| DI1405T | Difusor policarbonato Transparente<br>Transparent polycarbonate diffuser cover         |  |
| DI1405N | Difusor policarbonato Negro<br>Black polycarbonate diffuser cover                      |  |

**ACCESORIOS / ACCESSORIES**

|          |   |   |   |
|----------|---|---|---|
| TA1707N  | Tapa final sin agujero negra / Black end cap without hole             |  |   |
| TA1707B  | Tapa final sin agujero blanca / White end cap without hole            |  |  |
| TA1707G  | Tapa final sin agujero gris / Grey end cap without hole               |  |   |
| TA1707AN | Tapa final con agujero negra / Black end cap with hole                |  |  |
| TA1707AB | Tapa final con agujero blanca / White end cap with hole               |  |  |
| TA1707AG | Tapa final con agujero gris / Grey end cap with hole                  |  |   |
| GR1808   | Grapa de Zinc para Fijación de perfil<br>Zinc clip for profile fixing |   |  |



Admite tiras LED max. (LED strip supports max.): 1 x 12 mm  
 Longitud máxima (maximum length): 6 mts

**PERFILES / PROFILES**

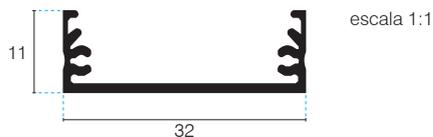
|          |  |  |
|----------|--|--|
| PAS1715N | Perfil para montaje en superficie 17.5 x 15 mm negro mate<br>Profile for surface mount 17.5 x 15 mm anodized black                 |  |
| PAS1715B | Perfil para montaje en superficie 17.5 x 15 mm blanco brillo RAL9010<br>Profile for surface mount 17.5 x 15 mm gloss white RAL9010 |  |
| PAS1715G | Perfil para montaje en superficie 17.5 x 15 mm plata mate<br>Profile for surface mount 17.5 x 15 mm anodized silver                |  |

**DIFUSORES / COVERS**

|         |  |  |
|---------|--|--|
| DI1405B | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover              |  |
| DI1405S | Difusor policarbonato Semitransparente<br>Semitransparent polycarbonate diffuser cover |  |
| DI1405T | Difusor policarbonato Transparente<br>Transparent polycarbonate diffuser cover         |  |
| DI1405N | Difusor policarbonato Negro<br>Black polycarbonate diffuser cover                      |  |

**ACCESORIOS / ACCESSORIES**

|               |   |  |  |
|---------------|---|--|--|
| TA1715N       | Tapa final sin agujero negra / Black end cap without hole   |  |  |
| TA1715B       | Tapa final sin agujero blanca / White end cap without hole  |  |  |
| TA1715G       | Tapa final sin agujero gris / Grey end cap without hole   |  |  |
| TA1715AN      | Tapa final con agujero negra / Black end cap with hole  |  |  |
| TA1715AB      | Tapa final con agujero blanca / White end cap with hole   |  |  |
| TA1715AG      | Tapa final con agujero gris / Grey end cap with hole  |  |  |
| GR1808        | Grapa de Zinc para Fijación de perfil<br>Zinc clip for profile fixing                                 |  |  |
| SOPLAT1715N   | SET 2 soportes lat plast negros + 2 tornillos<br>SET of 2 black plastic upper supports + 2 screws     |  |  |
| SOPLAT1715B   | SET 2 soportes lat plast blancos + 2 tornillos<br>SET of 2 white plastic upper supports + 2 screws    |  |  |
| SOPLAT1715G   | SET 2 soportes lat plast grises + 2 tornillos<br>SET of 2 gray plastic upper supports + 2 screws      |  |  |
| SOPSUP901715N | SET 2 soportes superior plast negros + 2 tornillos<br>SET of 2 black plastic top supports + 2 screws  |  |  |
| SOPSUP901715B | SET 2 soportes superior plast blancos + 2 tornillos<br>SET of 2 white plastic top supports + 2 screws |  |  |
| SOPSUP901715G | SET 2 soportes superior plast grises + 2 tornillos<br>SET of 2 gray plastic top supports + 2 screws   |  |  |



Admite tiras LED max. (LED strip supports max.): 2 x 10 / 3 x 8 mm  
 Longitud máxima (maximum length): 6 mts

**PERFILES / PROFILES**

|          |  |   |
|----------|--|---|
| PAS3211N | Perfil para montaje en superficie 32 x 11 mm negro mate<br>Profile for surface mount 32 x 11 mm anodized black                 |    |
| PAS3211B | Perfil para montaje en superficie 32 x 11 mm blanco brillo RAL9010<br>Profile for surface mount 32 x 11 mm gloss white RAL9010 |  |
| PAS3211G | Perfil para montaje en superficie 32 x 11 mm plata mate<br>Profile for surface mount 32 x 11 mm anodized silver                |  |

**DIFUSORES / COVERS**

|         |  |   |
|---------|--|---|
| DI3211B | Difusor policarbonato deslizante Opal / Blanco<br>White polycarbonate slider diffuser cover              |  |
| DI3211S | Difusor policarbonato deslizante Semitransparente<br>Semitransparent polycarbonate slider diffuser cover |  |
| DI3211T | Difusor policarbonato deslizante Transparente<br>Transparent polycarbonate slider diffuser cover         |  |

**ACCESORIOS / ACCESSORIES**

|          |   |   |   |
|----------|---|---|---|
| TA3211N  | Tapa final sin agujero negra / Black end cap without hole             |  |  |
| TA3211B  | Tapa final sin agujero blanca / White end cap without hole            |  |   |
| TA3211G  | Tapa final sin agujero gris / Grey end cap without hole               |  |   |
| TA3211AN | Tapa final con agujero negra / Black end cap with hole                |  |  |
| TA3211AB | Tapa final con agujero blanca / White end cap with hole               |  |   |
| TA3211AG | Tapa final con agujero gris / Grey end cap with hole                  |  |   |
| GR3211   | Grapa de Zinc para Fijación de perfil<br>Zinc clip for profile fixing |  |   |



Admite tiras LED max. (LED strip supports max.): 1 x 12 mm  
Longitud máxima (maximum length): 2 mts

**PERFILES / PROFILES**

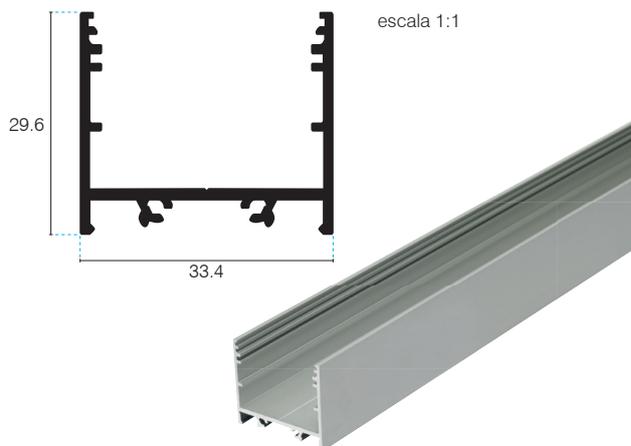
|        |   |   |
|--------|---|---|
| ARC20  | Perfil flexible 20 x 3.3 mm sin anodizar (bruto)<br>Flexible profile 20 x 3.3 mm without anodized     |   |
| ARC20N | Perfil flexible 20 x 3.3 mm negro mate<br>Flexible profile 20 x 3.3 mm anodized black                 | ■ |
| ARC20B | Perfil flexible 20 x 3.3 mm blanco brillo RAL9010<br>Flexible profile 20 x 3.3 mm gloss white RAL9010 | □ |

**DIFUSORES / COVERS**

|          |   |   |
|----------|---|---|
| DI1304B  | Difusor PMMA flexible Opal / Blanco<br>White flexible PMMA diffuser cover |  |
| DIARC20C | Difusor curvo PMMA Semitransparente<br>Curved PMMA diffuser cover white   |  |

**ACCESORIOS / ACCESSORIES**

|            |  |   |   |
|------------|--|---|---|
| TAARC20N   | Tapa final sin agujero negra / Black end cap without hole              | ■ |  |
| TAARC20B   | Tapa final sin agujero blanca / White end cap without hole             | □ |   |
| TAARC20G   | Tapa final sin agujero gris / Grey end cap without hole                | ■ |   |
| TAARC20AN  | Tapa final con agujero negra / Black end cap with hole                 | ■ |  |
| TAARC20AB  | Tapa final con agujero blanca / White end cap with hole                | □ |   |
| TAARC20AG  | Tapa final con agujero gris / Grey end cap with hole                   | ■ |   |
| TAARC20CN  | Tapa final curva sin agujero negra / Black end cap curve without hole  | ■ |  |
| TAARC20CB  | Tapa final curva sin agujero blanca / White end cap curve without hole | □ |   |
| TAARC20CG  | Tapa final curva sin agujero gris / Grey end cap curve without hole    | ■ |   |
| TAARC20CAN | Tapa final curva con agujero negra / Black end cap curve with hole     | ■ |  |
| TAARC20CAB | Tapa final curva con agujero blanca / White end cap curve with hole    | □ |   |
| TAARC20CAG | Tapa final curva con agujero gris / Grey end cap curve with hole       | ■ |   |
| GRARC20    | Grapa de zinc para fijación de perfil<br>Zinc clip for profile fixing  |   |  |



Admite tiras LED max. (LED strip supports max.): 2 x 10 / 3 x 8 mm  
Longitud máxima (maximum length): 2 mts

**PERFILES / PROFILES**

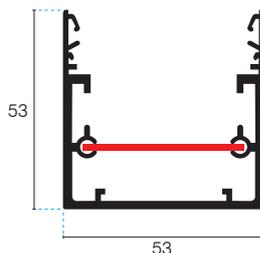
|          |  |   |
|----------|--|---|
| PAL3330N | Perfil para montaje de luminaria 33.4 x 29.6 mm negro mate<br>Profile for lighting 33.4 x 29.6 mm anodized black                 |    |
| PAL3330B | Perfil para montaje de luminaria 33.4 x 29.6 mm blanco brillo RAL9010<br>Profile for lighting 33.4 x 29.6 mm gloss white RAL9010 |  |
| PAL3330G | Perfil para montaje de luminaria 33.4 x 29.6 mm plata mate<br>Profile for lighting 33.4 x 29.6 mm anodized silver                |  |

**DIFUSORES / COVERS**

|          |   |   |
|----------|---|---|
| DI3004B  | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover                         |  |
| DI3326BC | Difusor policarbonato Opal / Blanco curvo<br>White round polycarbonate diffuser cover             |  |
| DI3326BR | Difusor policarbonato Opal / Blanco rectangular<br>White rectangular polycarbonate diffuser cover |  |

**ACCESORIOS / ACCESSORIES**

|         |   |   |   |
|---------|---|---|---|
| TA3330N | Tapa final negra / Black end cap  |  |  |
| TA3330B | Tapa final blanca / White end cap   |  |   |
| TA3330G | Tapa final gris / Grey end cap  |  |   |
| TA3330C | Tapa final blanca para DI3330C<br>White end cap for DI3330C   |   |  |
| TA3330R | Tapa final blanca para DI3330R<br>White end cap for DI3330R   |   |  |
| ASN4000 | Kit colgador univ. 4 mts, negro (2 ud.) PAL3330/PAL5353<br>Suspension accessory kit. 4 mts, black (2 pcs.) PAL3330/PAL5353  |  |  |
| ASB4000 | Kit colgador univ. 4 mts, blanco (2 ud.) PAL3330/PAL5353<br>Suspension accessory kit. 4 mts, white (2 pcs.) PAL3330/PAL5353 |  |  |
| ASC4000 | Kit colgador univ. 4 mts, cromo (2 ud.) PAL3330/PAL5353<br>Suspension accessory kit. 4 mts, chrome (2 pcs.) PAL3330/PAL5353 |  |  |
| GR3330  | Grapa de Zinc para Fijación de perfil<br>Zinc clip for profile fixing   |   |  |



Admite tiras LED max. (LED strip supports max.): 2 x 12 / 3 x 8 mm  
Longitud máxima (maximum length): 2 mts

**PERFILES / PROFILES**

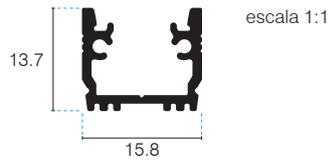
|          |   |   |
|----------|---|---|
| PAL5353N | Perfil para montaje de luminaria 53 x 53 mm negro mate<br><i>Profile for lighting 53 x 53 mm anodized black</i>                 |    |
| PAL5353B | Perfil para montaje de luminaria 53 x 53 mm blanco brillo RAL9010<br><i>Profile for lighting 53 x 53 mm gloss white RAL9010</i> |  |
| PAL5353G | Perfil para montaje de luminaria 53 x 53 mm plata mate<br><i>Profile for lighting 53 x 53 mm anodized silver</i>                |  |

**DIFUSORES / COVERS**

|         |   |   |   |
|---------|---|---|---|
| DI5353B | Difusor PMMA Opal / Blanco<br><i>White PMMA cover</i>   |  |  |
| DI5353N | Difusor policarbonato optico estrecho Transparente<br><i>Transparent narrow polycarbonate optical cover</i> |  |  |
| DI5353W | Difusor policarbonato optico ancho Transparente<br><i>Transparent wide polycarbonate optical cover</i>      |  |  |

**ACCESORIOS / ACCESSORIES**

|              |  |   |   |
|--------------|--|---|---|
| TA5353N      | Tapa final sin agujero negra / <i>Black end cap without hole</i>   |  |   |
| TA5353B      | Tapa final sin agujero blanca / <i>White end cap without hole</i>  |   |   |
| TA5353G      | Tapa final sin agujero gris / <i>Grey end cap without hole</i>   |   |   |
| PLET20005002 | Pletina de aluminio para montaje de tiras led<br><i>Aluminium plate for mounting led strips</i>                                    |  |   |
| ASN4000      | Kit colgador univ. 4 mts, negro (2 ud.) PAL3330/PAL5353<br><i>Suspension accessory kit. 4 mts, black (2 pcs.) PAL3330/PAL5353</i>  |  |  |
| ASB4000      | Kit colgador univ. 4 mts, blanco (2 ud.) PAL3330/PAL5353<br><i>Suspension accessory kit. 4 mts, white (2 pcs.) PAL3330/PAL5353</i> |  |  |
| ASC4000      | Kit colgador univ. 4 mts. Cromo (2 ud.) PAL3330/PAL5353<br><i>Suspension accessory kit. 4 mts, chrome (2 pcs.) PAL3330/PAL5353</i> |  |  |



Admite tiras LED max. (LED strip supports max.): 1 x 12 mm  
 Longitud máxima (maximum length): 2 mts

**PERFIL / PROFILE**

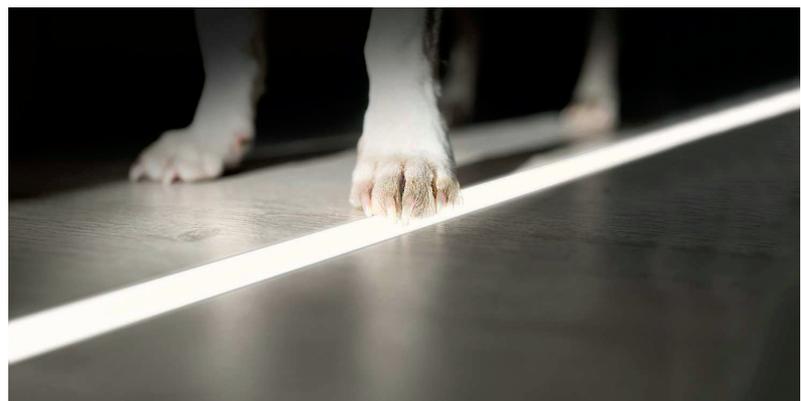
|          |   |   |
|----------|---|---|
| PES1614G | Perfil empotrado para suelo 15.8 x 13.7 mm plata mate<br>Recessed floor profile 15.8 x 13.7 mm anodized |  |
|----------|---|---|

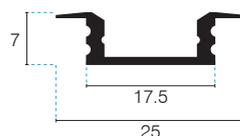
**DIFUSOR / COVER**

|         |   |   |
|---------|---|---|
| DI1614B | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover |  |
|---------|---|---|

**ACCESORIOS / ACCESSORIES**

|          |   |   |   |
|----------|---|---|---|
| TA1614G  | Tapa final sin agujero gris / Grey end cap without hole           |  |  |
| TA1614AG | Tapa final con agujero gris / Grey end cap with hole              |  |   |
| JE1614   | Junta de estanqueidad para tapas finales<br>Sealings for end caps |  |   |





escala 1:1



Admite tiras LED max. (LED strip supports max.): 1 x 12 mm  
Longitud máxima (maximum length): 6 mts

### PERFILES / PROFILES

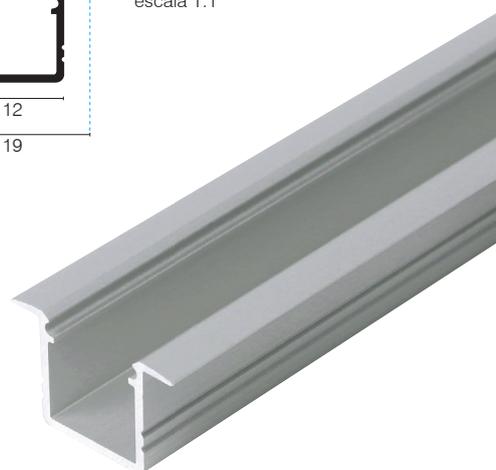
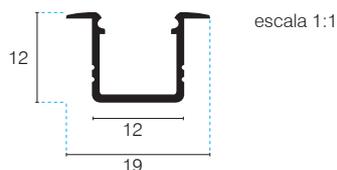
|          |   |   |
|----------|---|---|
| PAE2507N | Perfil para empotrar 25 x 7 mm negro mate<br>Profile for recessing 25 x 7 mm anodized black                 |    |
| PAE2507B | Perfil para empotrar 25 x 7 mm blanco brillo RAL9010<br>Profile for recessing 25 x 7 mm gloss white RAL9010 |  |
| PAE2507G | Perfil para empotrar 25 x 7 mm plata mate<br>Profile for recessing 25 x 7 mm anodized silver                |  |

### DIFUSORES / COVERS

|         |  |   |
|---------|--|---|
| DI1405B | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover              |  |
| DI1405S | Difusor policarbonato Semitransparente<br>Semitransparent polycarbonate diffuser cover |  |
| DI1405T | Difusor policarbonato Transparente<br>Transparent polycarbonate diffuser cover         |  |
| DI1405N | Difusor policarbonato Negro<br>Black polycarbonate diffuser cover                      |  |

### ACCESORIOS / ACCESSORIES

|          |   |   |   |
|----------|---|---|---|
| TA2507N  | Tapa final sin agujero negra / Black end cap without hole             |  |   |
| TA2507B  | Tapa final sin agujero blanca / White end cap without hole            |  |   |
| TA2507G  | Tapa final sin agujero gris / Grey end cap without hole               |  |  |
| TA2507AN | Tapa final con agujero negra / Black end cap with hole                |  |  |
| TA2507AB | Tapa final con agujero blanca / White end cap with hole               |  |   |
| TA2507AG | Tapa final con agujero gris / Grey end cap with hole                  |  |   |
| GR1808   | Grapa de zinc para fijación de perfil<br>Zinc clip for profile fixing |   |  |



Admite tiras LED max. (LED strip supports max.): 1 x 8 mm  
Longitud máxima (maximum length): 2 mts

**PERFILES / PROFILES**

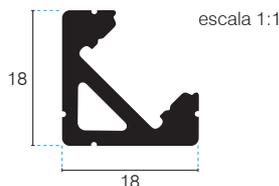
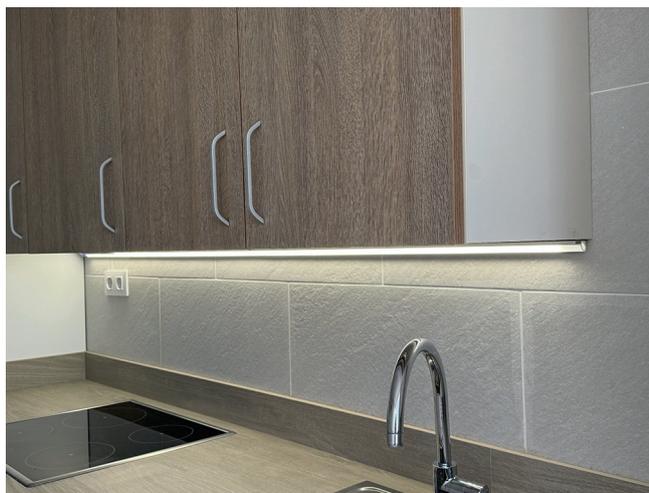
|          |   |   |
|----------|---|---|
| PAE1912N | Perfil para empotrar 19 x 12 mm negro mate<br>Profile for recessing 19 x 12 mm anodized black                 |    |
| PAE1912B | Perfil para empotrar 19 x 12 mm blanco brillo RAL9010<br>Profile for recessing 19 x 12 mm gloss white RAL9010 |  |
| PAE1912G | Perfil para empotrar 19 x 12 mm plata mate<br>Profile for recessing 19 x 12 mm anodized silver                |  |

**DIFUSORES / COVERS**

|         |  |   |
|---------|--|---|
| DI1003B | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover      |  |
| DI1003T | Difusor policarbonato Transparente<br>Transparent polycarbonate diffuser cover |  |

**ACCESORIOS / ACCESSORIES**

|          |   |   |   |
|----------|---|---|---|
| TA1912AN | Tapa final con agujero negra / Black end cap with hole                |  |  |
| TA1912AB | Tapa final con agujero blanca / White end cap with hole               |  |   |
| TA1912AG | Tapa final con agujero gris / Grey end cap with hole                  |  |   |
| GR1613   | Grapa de zinc para fijación de perfil<br>Zinc clip for profile fixing |  |   |



Admite tiras LED max. (LED strip supports max.): 1 x 12 mm  
Longitud máxima (maximum length): 6 mts

**PERFILES / PROFILES**

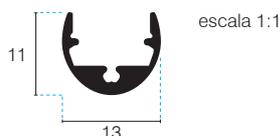
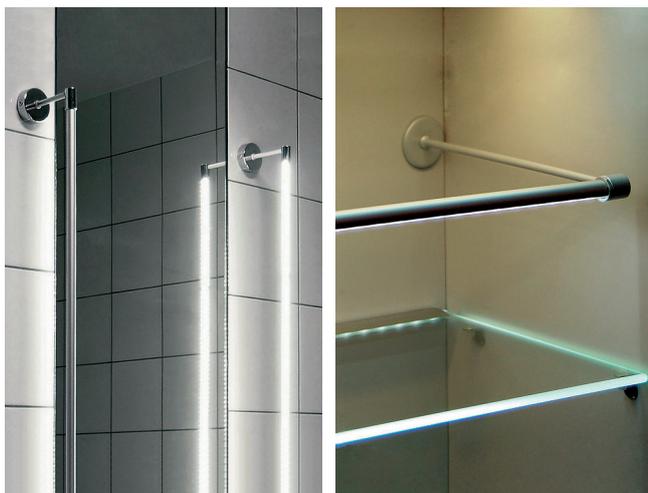
|          |  |   |
|----------|--|---|
| PAC1818N | Perfil esquinero 18 x 18 mm negro mate<br>Corner profile 18 x 18 mm anodized black                 |    |
| PAC1818B | Perfil esquinero 18 x 18 mm blanco brillo RAL9010<br>Corner profile 18 x 18 mm gloss white RAL9010 |  |
| PAC1818G | Perfil esquinero 18 x 18 mm plata mate<br>Corner profile 18 x 18 mm anodized silver                |  |

**DIFUSORES / COVERS**

|         |  |   |
|---------|--|---|
| DI1405B | Difusor policarbonato Opal / Blanco<br>White polycarbonate diffuser cover              |  |
| DI1405S | Difusor policarbonato Semitransparente<br>Semitransparent polycarbonate diffuser cover |  |
| DI1405T | Difusor policarbonato Transparente<br>Transparent polycarbonate diffuser cover         |  |
| DI1405N | Difusor policarbonato Negro<br>Black polycarbonate diffuser cover                      |  |

**ACCESORIOS / ACCESSORIES**

|          |   |   |   |
|----------|---|---|---|
| TA1818N  | Tapa final sin agujero negra / Black end cap without hole             |  |  |
| TA1818B  | Tapa final sin agujero blanca / White end cap without hole            |  |  |
| TA1818G  | Tapa final sin agujero gris / Grey end cap without hole               |  |  |
| TA1818AN | Tapa final con agujero negra / Black end cap with hole                |  |  |
| TA1818AB | Tapa final con agujero blanca / White end cap with hole               |  |  |
| TA1818AG | Tapa final con agujero gris / Grey end cap with hole                  |  |  |
| GR1808   | Grapa de zinc para fijación de perfil<br>Zinc clip for profile fixing |  |   |



Admite tiras LED max. (LED strip supports max.): 1 x 8 mm  
Longitud máxima (maximum length): 2 mts

Perfil multiusos redondo de reducido tamaño con un fino y elegante diseño.  
Para iluminación horizontal o vertical.  
Posibilidad de montaje entre las paredes de un armario.  
Ideal para iluminar vitrinas, expositores o para fabricar ilumina-cuadros y apliques.

*Multi-purpose small round profile with a fine and elegant design.  
For horizontal or vertical lighting.  
Possibility of mounting between the walls of a cabinet.  
Ideal for cabinets, exhibitors displays or make wall lightings and picture-lighting.*

**PERFIL / PROFILE**

|          |  |  |
|----------|--|--|
| PAR1311G | Perfil redondo 13 x 11 mm plata mate<br>Round profile 13 x 11 mm anodized silver |  |
|----------|--|--|

**DIFUSORES / COVERS**

|         |  |  |
|---------|--|--|
| DI1311S | Difusor policarbonato Semitransparente<br>Semitransparent polycarbonate diffuser cover |  |
|---------|--|--|

**ACCESORIOS / ACCESSORIES**

|          |   |  |
|----------|---|--|
| TA1311G  | Tapa final sin agujero gris / Grey end cap without hole |  |
| TA1311AG | Tapa final con agujero gris / Grey end cap with hole    |  |

**SOPORTES / BRACKETS**

|         |  |  |
|---------|--|--|
| SOP1212 | Kit de soporte plástico rotatorio / Rotary plastic support kit |  |
|---------|--|--|

|            |   |  |
|------------|---|--|
| PE86440000 | Soporte anillo metálico / Holder metal ring |  |
|------------|---|--|



Admite tiras LED max. (LED strip supports max.): 1 x 12 mm  
Longitud máxima (maximum length): 2 mts

Perfil anodizado diseñado para barras de armario que cumple dos funciones: Barra para colgar la ropa y fuente de iluminación interior para armarios.

Este perfil cuenta con soportes especialmente diseñados para instalaciones en paredes y techos de mobiliarios.

Se le puede acoplar detectores de movimiento en el interior del perfil.

*Anodized profile designed for hanging clothes wardrobe that serves two functions: Rack clothes and indoor lighting for wardrobe.*

*This led profile has brackets specially designed to be installed in wall and ceiling cabinets.*

*Motion sensors can be coupled into the aluminium profile.*

### PERFIL / PROFILE

PAR2828G Perfil redondo 28 x 28.5 mm plata mate  
Round profile 28 x 28.5 mm anodized silver



### DIFUSORES / COVERS

DI2828B Difusor policarbonato deslizante Opal / Blanco  
White polycarbonate slider diffuser cover



DI2828S Difusor policarbonato deslizante Semitransparente  
Semitransparent polycarbonate slider diffuser cover



DI2828T Difusor policarbonato deslizante Transparente  
Transparent polycarbonate slider diffuser cover



### ACCESORIOS / ACCESSORIES

SOP2828PL Juego de 2 soportes pared ABS y 6 tornillos  
Set of 2 ABS wall brackets and 6 screws



SOP2828MT Juego de 2 soportes pared acero y 6 tornillos  
Set of 2 steel wall brackets and 6 screws



SOP2828PT Juego de 2 soportes pared/techo ABS/acero (todos los accesorios)  
Set of 2 wall / ceiling brackets ABS/steel (all accessories)



SOP2828PTD Juego de 2 soportes techo ABS/acero/aluminio (todos los accesorios)  
Set of 2 ceiling brackets ABS/steel/aluminium (all accessories)



## KIT PERFIL DE ALUMINIO 2 MT. PARA LA INSTALACIÓN DE TIRAS LED (NO INCLUIDAS)

### ALUMINIUM PROFILE KIT 2 MT. FOR THE INSTALLATION OF LED STRIPS (NOT INCLUDED)

El kit incluye 2 mts de perfil de aluminio, 2 mts difusor opal, 2 tapas (1 con agujero y 1 sin agujero) y 4 grapas metálicas. Colores disponibles: Negro, blanco y plata.

The kit includes 2 mts of aluminium profile, 2 mts opal diffuser, 2 endings (1 with hole and 1 without hole) and 4 metal clips. Available colors: black, white and silver.

|  | CÓDIGO<br>CODE |   | MTS | PERFIL<br>PROFILE | DIFUSOR<br>COVER | TAPAS<br>ENDINGS    | GRAPAS<br>ZINC CLIP |
|--|----------------|---|-----|-------------------|------------------|---------------------|---------------------|
|  | 2MK0812N1405B  | ■ | 2   | PAS0812N          | DI0605B          | TA0812AN<br>TA0812N | 4x<br>GR0808        |
|  | 2MK0812B1405B  | □ |     | PAS0812B          |                  | TA0812AB<br>TA0812B |                     |
|  | 2MK0812G1405B  | ■ |     | PAS0812G          |                  | TA0812AG<br>TA0812G |                     |
|  | 2MK1212N1003B  | ■ | 2   | PAS1212N          | DI1003B          | TA1212AN<br>TA1212N | 4x<br>GR1613        |
|  | 2MK1212B1003B  | □ |     | PAS1212B          |                  | TA1212AB<br>TA1212B |                     |
|  | 2MK1212G1003B  | ■ |     | PAS1212G          |                  | TA1212AG<br>TA1212G |                     |
|  | 2MK1707N1405B  | ■ | 2   | PAS1707N          | DI1405B          | TA1707AN<br>TA1707N | 4x<br>GR1808        |
|  | 2MK1707B1405B  | □ |     | PAS1707B          |                  | TA1707AB<br>TA1707B |                     |
|  | 2MK1707G1405B  | ■ |     | PAS1707G          |                  | TA1707AG<br>TA1707G |                     |
|  | 2MK1715N1405B  | ■ | 2   | PAS1715N          | DI1405B          | TA1715AN<br>TA1715N | 4x<br>GR1808        |
|  | 2MK1715B1405B  | □ |     | PAS1715B          |                  | TA1715AB<br>TA1715B |                     |
|  | 2MK1715G1405B  | ■ |     | PAS1715G          |                  | TA1715AG<br>TA1715G |                     |
|  | 2MK2507N1405B  | ■ | 2   | PAE2507N          | DI1405B          | TA2507AN<br>TA2507N | 4x<br>GR1808        |
|  | 2MK2507B1405B  | □ |     | PAE2507B          |                  | TA2507AB<br>TA2507B |                     |
|  | 2MK2507G1405B  | ■ |     | PAE2507G          |                  | TA2507AG<br>TA2507G |                     |
|  | 2MK1912N1003B  | ■ | 2   | PAE1912N          | DI1003B          | TA1912AN<br>TA1912N | 4x<br>GR1613        |
|  | 2MK1912B1003B  | □ |     | PAE1912B          |                  | TA1912AB<br>TA1912B |                     |
|  | 2MK1912G1003B  | ■ |     | PAE1912G          |                  | TA1912AG<br>TA1912G |                     |
|  | 2MK1818N1405B  | ■ | 2   | PAC1818N          | DI1405B          | TA1818AN<br>TA1818N | 4x<br>GR1808        |
|  | 2MK1818B1405B  | □ |     | PAC1818B          |                  | TA1818AB<br>TA1818B |                     |
|  | 2MK1818G1405B  | ■ |     | PAC1818G          |                  | TA1818AG<br>TA1818G |                     |
|  | 2MK3211N3211S  | ■ | 2   | PAS3211N          | DI3211S          | TA3211N<br>TA3211AN | 4x<br>GR3211        |
|  | 2MK3211B3211S  | □ |     | PAS3211B          |                  | TA3211B<br>TA3211AB |                     |
|  | 2MK3211G3211S  | ■ |     | PAS3211G          |                  | TA3211G<br>TA3211AG |                     |

BOEL-TRONIC

# TIRAS LED FLEXIBLES

## FLEXIBLE LED STRIPS



# FABRICACIÓN DE TIRAS LED FLEXIBLES

MANUFACTURE OF FLEXIBLES LED STRIPS

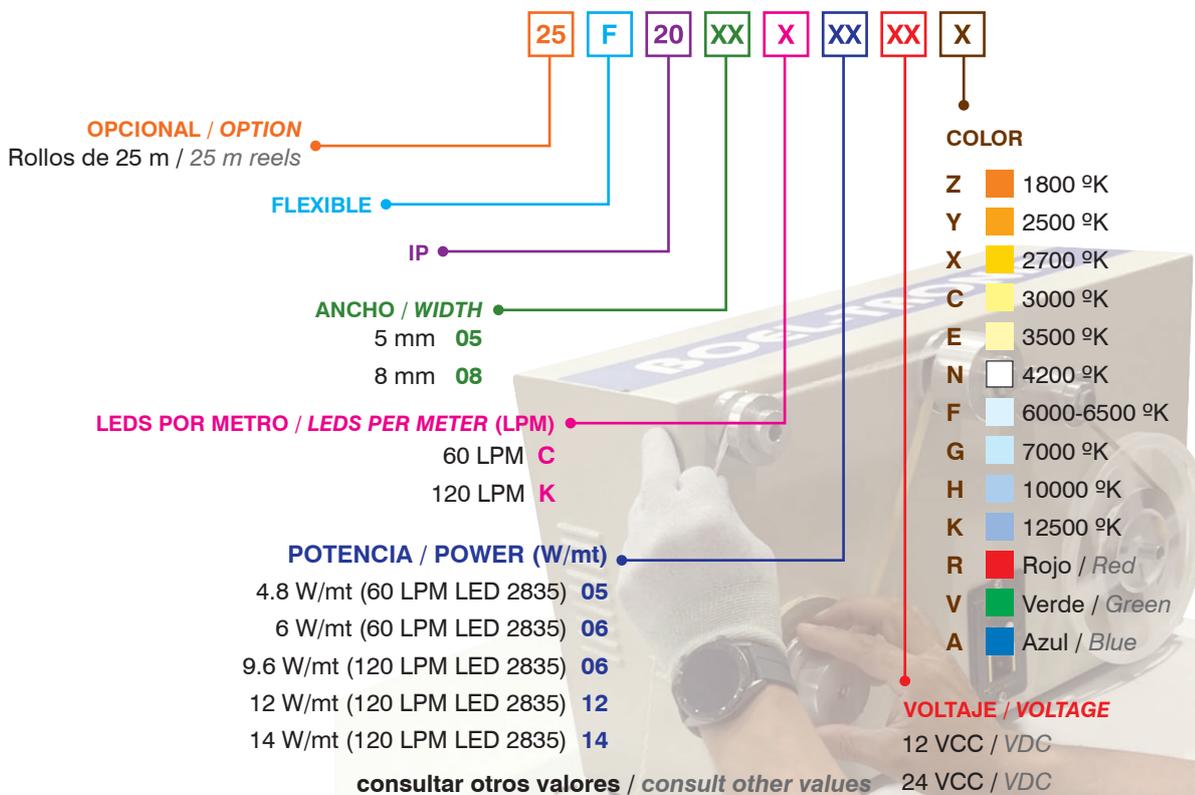


## VENTAJAS DE FABRICAR LAS TIRAS DE LED FLEXIBLES EN ESPAÑA

1. Rapidez en las entregas: Al producir localmente, se eliminan los largos tiempos de transporte internacional, lo que permite responder con mayor agilidad a la demanda del cliente.
2. Mayor control de calidad: La cercanía con la planta de fabricación facilita el seguimiento de los procesos y asegura estándares de calidad más altos.
3. Reducción de costes logísticos: Se minimizan los gastos asociados al transporte, aduanas e intermediarios.
4. Personalización y flexibilidad: Es más fácil adaptar los productos a las necesidades específicas del mercado local.
5. Sostenibilidad: Se reduce la huella de carbono al evitar importaciones desde largas distancias.

## ADVANTAGES OF MANUFACTURING FLEXIBLE LED STRIPS IN SPAIN

1. Fast delivery: By producing locally, long international shipping times are eliminated, allowing for faster response to customer demand.
2. Greater quality control: Proximity to the manufacturing plant facilitates process monitoring and ensures higher quality standards.
3. Reduction in logistics costs: Expenses associated with transportation, customs, and intermediaries are minimized.
4. Personalization and flexibility: It is easier to adapt products to the specific needs of the local market.
5. Sustainability: The carbon footprint is reduced by avoiding long-distance imports.

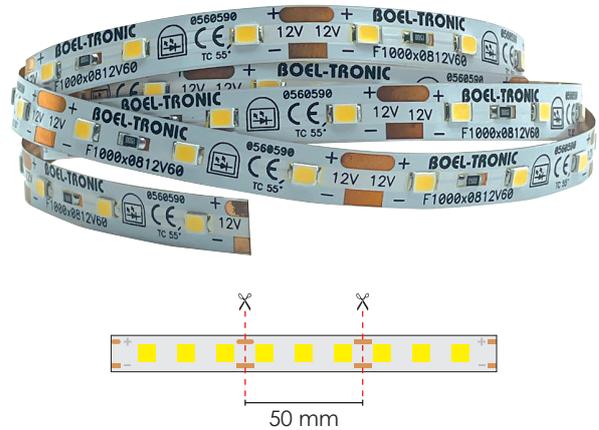


### Características / Features

- Flexibilidad / Flexibility
- Personalización / Customization

### Aplicaciones / Applications

- Ambiental / Environmental
- Bajo de armarios / Under cabinet
- Oculta / Concealed
- Exterior y paisajística / Exterior and landscaping
- Automoción / Automotive



PCB ANCHO 8 mm / PCB WIDTH 8 mm

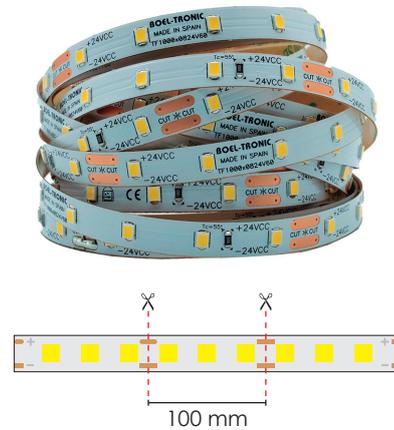
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2008C0512Z | 1800  | 255   | 20 | 4.8  | 2835 | 60      | 120° | 0.4  | 50 | 5000 x 8 |
| F2008C0512Y | 2500  | 370   |    |      |      |         |      |      |    |          |
| F2008C0512X | 2700  | 390   |    |      |      |         |      |      |    |          |
| F2008C0512C | 3000  | 425   |    |      |      |         |      |      |    |          |
| F2008C0512E | 3500  | 465   |    |      |      |         |      |      |    |          |
| F2008C0512N | 4000  | 505   |    |      |      |         |      |      |    |          |
| F2008C0512F | 6000  | 545   |    |      |      |         |      |      |    |          |
| F2008C0512G | 7000  | 425   |    |      |      |         |      |      |    |          |
| F2008C0512H | 10000 | 400   |    |      |      |         |      |      |    |          |
| F2008C0512K | 12500 | 410   |    |      |      |         |      |      |    |          |
| F2008C0512R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2008C0512V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2008C0512A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2005C0512Z | 1800  | 255   | 20 | 4.8  | 2835 | 60      | 120° | 0.4  | 50 | 5000 x 5 |
| F2005C0512Y | 2500  | 370   |    |      |      |         |      |      |    |          |
| F2005C0512X | 2700  | 390   |    |      |      |         |      |      |    |          |
| F2005C0512C | 3000  | 425   |    |      |      |         |      |      |    |          |
| F2005C0512E | 3500  | 465   |    |      |      |         |      |      |    |          |
| F2005C0512N | 4000  | 505   |    |      |      |         |      |      |    |          |
| F2005C0512F | 6000  | 545   |    |      |      |         |      |      |    |          |
| F2005C0512G | 7000  | 425   |    |      |      |         |      |      |    |          |
| F2005C0512H | 10000 | 400   |    |      |      |         |      |      |    |          |
| F2005C0512K | 12500 | 410   |    |      |      |         |      |      |    |          |
| F2005C0512R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2005C0512V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2005C0512A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



PCB ANCHO 8 mm / PCB WIDTH 8 mm

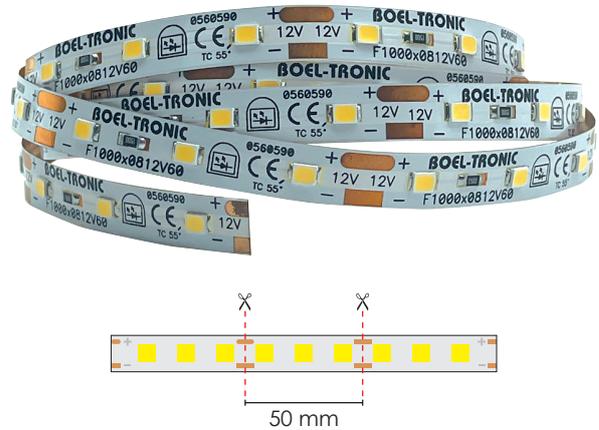
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂   | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|-----|----------|
| F2008C0524Z | 1800  | 275   | 20 | 4.8  | 2835 | 60      | 120° | 0.2  | 100 | 5000 x 8 |
| F2008C0524Y | 2500  | 400   |    |      |      |         |      |      |     |          |
| F2008C0524X | 2700  | 420   |    |      |      |         |      |      |     |          |
| F2008C0524C | 3000  | 455   |    |      |      |         |      |      |     |          |
| F2008C0524E | 3500  | 465   |    |      |      |         |      |      |     |          |
| F2008C0524N | 4000  | 555   |    |      |      |         |      |      |     |          |
| F2008C0524F | 6000  | 585   |    |      |      |         |      |      |     |          |
| F2008C0524G | 7000  | 455   |    |      |      |         |      |      |     |          |
| F2008C0524H | 10000 | 425   |    |      |      |         |      |      |     |          |
| F2008C0524K | 12500 | 435   |    |      |      |         |      |      |     |          |
| F2008C0524R | ROJO  | 625nm |    |      |      |         |      |      |     |          |
| F2008C0524V | VERDE | 525nm |    |      |      |         |      |      |     |          |
| F2008C0524A | AZUL  | 460nm |    |      |      |         |      |      |     |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂   | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|-----|----------|
| F2005C0524Z | 1800  | 275   | 20 | 4.8  | 2835 | 60      | 120° | 0.2  | 100 | 5000 x 5 |
| F2005C0524Y | 2500  | 400   |    |      |      |         |      |      |     |          |
| F2005C0524X | 2700  | 420   |    |      |      |         |      |      |     |          |
| F2005C0524C | 3000  | 455   |    |      |      |         |      |      |     |          |
| F2005C0524E | 3500  | 505   |    |      |      |         |      |      |     |          |
| F2005C0524N | 4000  | 555   |    |      |      |         |      |      |     |          |
| F2005C0524F | 5000  | 585   |    |      |      |         |      |      |     |          |
| F2005C0524G | 7000  | 455   |    |      |      |         |      |      |     |          |
| F2005C0524H | 10000 | 425   |    |      |      |         |      |      |     |          |
| F2005C0524K | 12500 | 435   |    |      |      |         |      |      |     |          |
| F2005C0524R | ROJO  | 525nm |    |      |      |         |      |      |     |          |
| F2005C0524V | VERDE | 525nm |    |      |      |         |      |      |     |          |
| F2005C0524A | AZUL  | 450nm |    |      |      |         |      |      |     |          |



PCB ANCHO 8 mm / PCB WIDTH 8 mm

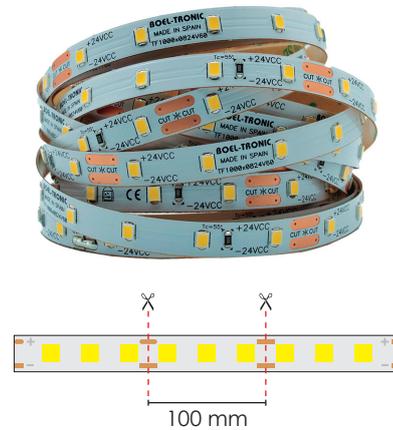
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2008C0612Z | 1800  | 300   | 20 | 6    | 2835 | 60      | 120° | 0.5  | 50 | 5000 x 8 |
| F2008C0612Y | 2500  | 440   |    |      |      |         |      |      |    |          |
| F2008C0612X | 2700  | 450   |    |      |      |         |      |      |    |          |
| F2008C0612C | 3000  | 490   |    |      |      |         |      |      |    |          |
| F2008C0612E | 3500  | 535   |    |      |      |         |      |      |    |          |
| F2008C0612N | 4000  | 585   |    |      |      |         |      |      |    |          |
| F2008C0612F | 6000  | 635   |    |      |      |         |      |      |    |          |
| F2008C0612G | 7000  | 490   |    |      |      |         |      |      |    |          |
| F2008C0612H | 10000 | 470   |    |      |      |         |      |      |    |          |
| F2008C0612K | 12500 | 475   |    |      |      |         |      |      |    |          |
| F2008C0612R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2008C0612V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2008C0612A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2005C0612Z | 1800  | 300   | 20 | 6    | 2835 | 60      | 120° | 0.5  | 50 | 5000 x 5 |
| F2005C0612Y | 2500  | 440   |    |      |      |         |      |      |    |          |
| F2005C0612X | 2700  | 450   |    |      |      |         |      |      |    |          |
| F2005C0612C | 3000  | 490   |    |      |      |         |      |      |    |          |
| F2005C0612E | 3500  | 535   |    |      |      |         |      |      |    |          |
| F2005C0612N | 4000  | 535   |    |      |      |         |      |      |    |          |
| F2005C0612F | 6000  | 635   |    |      |      |         |      |      |    |          |
| F2005C0612G | 7000  | 490   |    |      |      |         |      |      |    |          |
| F2005C0612H | 10000 | 470   |    |      |      |         |      |      |    |          |
| F2005C0612K | 12500 | 475   |    |      |      |         |      |      |    |          |
| F2005C0612R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2005C0612V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2005C0612A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



**PCB ANCHO 8 mm / PCB WIDTH 8 mm**

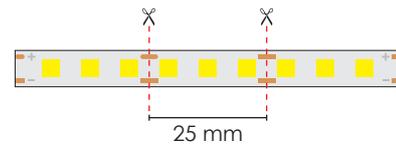
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂   | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|-----|----------|
| F2008C0624Z | 1800  | 325   | 20 | 6    | 2835 | 60      | 120° | 0.25 | 100 | 5000 x 8 |
| F2008C0624Y | 2500  | 475   |    |      |      |         |      |      |     |          |
| F2008C0624X | 2700  | 490   |    |      |      |         |      |      |     |          |
| F2008C0624C | 3000  | 520   |    |      |      |         |      |      |     |          |
| F2008C0624E | 3500  | 580   |    |      |      |         |      |      |     |          |
| F2008C0624N | 4000  | 645   |    |      |      |         |      |      |     |          |
| F2008C0624F | 6000  | 695   |    |      |      |         |      |      |     |          |
| F2008C0624G | 7000  | 520   |    |      |      |         |      |      |     |          |
| F2008C0624H | 10000 | 510   |    |      |      |         |      |      |     |          |
| F2008C0624K | 12500 | 515   |    |      |      |         |      |      |     |          |
| F2008C0624R | ROJO  | 625nm |    |      |      |         |      |      |     |          |
| F2008C0624V | VERDE | 525nm |    |      |      |         |      |      |     |          |
| F2008C0624A | AZUL  | 460nm |    |      |      |         |      |      |     |          |

**PCB ANCHO 5 mm / PCB WIDTH 5 mm**

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂   | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|-----|----------|
| F2008K1224Z | 1800  | 325   | 20 | 6    | 2835 | 60      | 120° | 0.25 | 100 | 5000 x 5 |
| F2008K1224Y | 2500  | 475   |    |      |      |         |      |      |     |          |
| F2008K1224X | 2700  | 490   |    |      |      |         |      |      |     |          |
| F2008K1224C | 3000  | 520   |    |      |      |         |      |      |     |          |
| F2008K1224E | 3500  | 580   |    |      |      |         |      |      |     |          |
| F2008K1224N | 4000  | 645   |    |      |      |         |      |      |     |          |
| F2008K1224F | 6000  | 695   |    |      |      |         |      |      |     |          |
| F2008K1224G | 7000  | 520   |    |      |      |         |      |      |     |          |
| F2008K1224H | 10000 | 510   |    |      |      |         |      |      |     |          |
| F2008K1224K | 12500 | 515   |    |      |      |         |      |      |     |          |
| F2008K1224R | ROJO  | 625nm |    |      |      |         |      |      |     |          |
| F2008K1224V | VERDE | 525nm |    |      |      |         |      |      |     |          |
| F2008K1224A | AZUL  | 460nm |    |      |      |         |      |      |     |          |



PCB ANCHO 8 mm / PCB WIDTH 8 mm

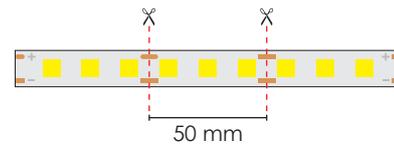
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2008K1012Z | 1800  | 480   | 20 | 9.6  | 2835 | 120     | 120° | 0.8  | 25 | 5000 x 8 |
| F2008K1012Y | 2500  | 735   |    |      |      |         |      |      |    |          |
| F2008K1012X | 2700  | 770   |    |      |      |         |      |      |    |          |
| F2008K1012C | 3000  | 815   |    |      |      |         |      |      |    |          |
| F2008K1012E | 3500  | 890   |    |      |      |         |      |      |    |          |
| F2008K1012N | 4000  | 970   |    |      |      |         |      |      |    |          |
| F2008K1012F | 6000  | 1055  |    |      |      |         |      |      |    |          |
| F2008K1012G | 7000  | 815   |    |      |      |         |      |      |    |          |
| F2008K1012H | 10000 | 780   |    |      |      |         |      |      |    |          |
| F2008K1012K | 12500 | 785   |    |      |      |         |      |      |    |          |
| F2008K1012R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2008K1012V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2008K1012A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2005K1012Z | 1800  | 480   | 20 | 9.6  | 2835 | 120     | 120° | 0.8  | 25 | 5000 x 5 |
| F2005K1012Y | 2500  | 735   |    |      |      |         |      |      |    |          |
| F2005K1012X | 2700  | 770   |    |      |      |         |      |      |    |          |
| F2005K1012C | 3000  | 815   |    |      |      |         |      |      |    |          |
| F2005K1012E | 3500  | 890   |    |      |      |         |      |      |    |          |
| F2005K1012N | 4000  | 970   |    |      |      |         |      |      |    |          |
| F2005K1012F | 6000  | 1055  |    |      |      |         |      |      |    |          |
| F2005K1012G | 7000  | 815   |    |      |      |         |      |      |    |          |
| F2005K1012H | 10000 | 780   |    |      |      |         |      |      |    |          |
| F2005K1012K | 12500 | 785   |    |      |      |         |      |      |    |          |
| F2005K1012R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2005K1012V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2005K1012A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



PCB ANCHO 8 mm / PCB WIDTH 8 mm

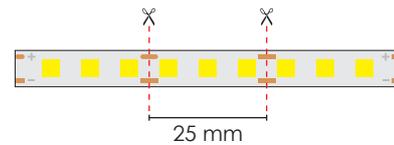
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2008K1024Z | 1800  | 545   | 20 | 9.6  | 2835 | 120     | 120° | 0.4  | 50 | 5000 x 8 |
| F2008K1024Y | 2500  | 775   |    |      |      |         |      |      |    |          |
| F2008K1024X | 2700  | 820   |    |      |      |         |      |      |    |          |
| F2008K1024C | 3000  | 900   |    |      |      |         |      |      |    |          |
| F2008K1024E | 3500  | 985   |    |      |      |         |      |      |    |          |
| F2008K1024N | 4000  | 1075  |    |      |      |         |      |      |    |          |
| F2008K1024F | 6000  | 1155  |    |      |      |         |      |      |    |          |
| F2008K1024G | 7000  | 900   |    |      |      |         |      |      |    |          |
| F2008K1024H | 10000 | 845   |    |      |      |         |      |      |    |          |
| F2008K1024K | 12500 | 865   |    |      |      |         |      |      |    |          |
| F2008K1024R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2008K1024V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2008K1024A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2005K1024Z | 1800  | 545   | 20 | 9.6  | 2835 | 120     | 120° | 0.4  | 50 | 5000 x 5 |
| F2005K1024Y | 2500  | 775   |    |      |      |         |      |      |    |          |
| F2005K1024X | 2700  | 820   |    |      |      |         |      |      |    |          |
| F2005K1024C | 3000  | 900   |    |      |      |         |      |      |    |          |
| F2005K1024E | 3500  | 985   |    |      |      |         |      |      |    |          |
| F2005K1024N | 4000  | 1075  |    |      |      |         |      |      |    |          |
| F2005K1024F | 6000  | 1155  |    |      |      |         |      |      |    |          |
| F2005K1024G | 7000  | 900   |    |      |      |         |      |      |    |          |
| F2005K1024H | 10000 | 845   |    |      |      |         |      |      |    |          |
| F2005K1024K | 12500 | 865   |    |      |      |         |      |      |    |          |
| F2005K1024R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2005K1024V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2005K1024A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



PCB ANCHO 8 mm / PCB WIDTH 8 mm

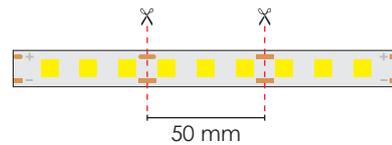
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2008K1212Z | 1800  | 585   | 20 | 12   | 2835 | 120     | 120° | 1    | 25 | 5000 x 8 |
| F2008K1212Y | 2500  | 880   |    |      |      |         |      |      |    |          |
| F2008K1212X | 2700  | 890   |    |      |      |         |      |      |    |          |
| F2008K1212C | 3000  | 945   |    |      |      |         |      |      |    |          |
| F2008K1212E | 3500  | 1050  |    |      |      |         |      |      |    |          |
| F2008K1212N | 4000  | 1155  |    |      |      |         |      |      |    |          |
| F2008K1212F | 6000  | 1230  |    |      |      |         |      |      |    |          |
| F2008K1212G | 7000  | 945   |    |      |      |         |      |      |    |          |
| F2008K1212H | 10000 | 900   |    |      |      |         |      |      |    |          |
| F2008K1212K | 12500 | 930   |    |      |      |         |      |      |    |          |
| F2008K1212R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2008K1212V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2008K1212A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2005K1212Z | 1800  | 585   | 20 | 12   | 2835 | 120     | 120° | 1    | 25 | 5000 x 5 |
| F2005K1212Y | 2500  | 880   |    |      |      |         |      |      |    |          |
| F2005K1212X | 2700  | 890   |    |      |      |         |      |      |    |          |
| F2005K1212C | 3000  | 945   |    |      |      |         |      |      |    |          |
| F2005K1212E | 3500  | 1050  |    |      |      |         |      |      |    |          |
| F2005K1212N | 4000  | 1155  |    |      |      |         |      |      |    |          |
| F2005K1212F | 6000  | 1230  |    |      |      |         |      |      |    |          |
| F2005K1212G | 7000  | 945   |    |      |      |         |      |      |    |          |
| F2005K1212H | 10000 | 900   |    |      |      |         |      |      |    |          |
| F2005K1212K | 12500 | 930   |    |      |      |         |      |      |    |          |
| F2005K1212R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2005K1212V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2005K1212A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



PCB ANCHO 8 mm / PCB WIDTH 8 mm

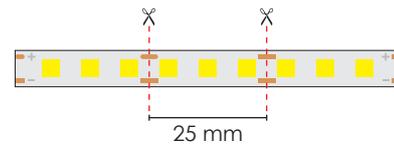
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2008K1224Z | 1800  | 635   | 20 | 12   | 2835 | 120     | 120° | 0.5  | 50 | 5000 x 8 |
| F2008K1224Y | 2500  | 940   |    |      |      |         |      |      |    |          |
| F2008K1224X | 2700  | 975   |    |      |      |         |      |      |    |          |
| F2008K1224C | 3000  | 1030  |    |      |      |         |      |      |    |          |
| F2008K1224E | 3500  | 1155  |    |      |      |         |      |      |    |          |
| F2008K1224N | 4000  | 1280  |    |      |      |         |      |      |    |          |
| F2008K1224F | 6000  | 1370  |    |      |      |         |      |      |    |          |
| F2008K1224G | 7000  | 1030  |    |      |      |         |      |      |    |          |
| F2008K1224H | 10000 | 990   |    |      |      |         |      |      |    |          |
| F2008K1224K | 12500 | 1020  |    |      |      |         |      |      |    |          |
| F2008K1224R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2008K1224V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2008K1224A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2005K1224Z | 1800  | 635   | 20 | 12   | 2835 | 120     | 120° | 0.5  | 50 | 5000 x 5 |
| F2005K1224Y | 2500  | 940   |    |      |      |         |      |      |    |          |
| F2005K1224X | 2700  | 975   |    |      |      |         |      |      |    |          |
| F2005K1224C | 3000  | 1030  |    |      |      |         |      |      |    |          |
| F2005K1224E | 3500  | 1155  |    |      |      |         |      |      |    |          |
| F2005K1224N | 4000  | 1280  |    |      |      |         |      |      |    |          |
| F2005K1224F | 6000  | 1370  |    |      |      |         |      |      |    |          |
| F2005K1224G | 7000  | 1030  |    |      |      |         |      |      |    |          |
| F2005K1224H | 10000 | 990   |    |      |      |         |      |      |    |          |
| F2005K1224K | 12500 | 1020  |    |      |      |         |      |      |    |          |
| F2005K1224R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2005K1224V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2005K1224A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



PCB ANCHO 8 mm / PCB WIDTH 8 mm

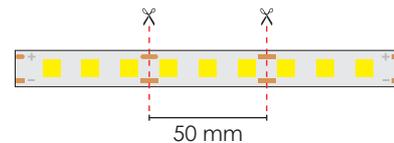
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2008K1412Z | 1800  | 650   | 20 | 14   | 2835 | 120     | 120° | 1.2  | 25 | 5000 x 8 |
| F2008K1412Y | 2500  | 980   |    |      |      |         |      |      |    |          |
| F2008K1412X | 2700  | 995   |    |      |      |         |      |      |    |          |
| F2008K1412C | 3000  | 1060  |    |      |      |         |      |      |    |          |
| F2008K1412E | 3500  | 1190  |    |      |      |         |      |      |    |          |
| F2008K1412N | 4000  | 1320  |    |      |      |         |      |      |    |          |
| F2008K1412F | 6000  | 1390  |    |      |      |         |      |      |    |          |
| F2008K1412G | 7000  | 1060  |    |      |      |         |      |      |    |          |
| F2008K1412H | 10000 | 1000  |    |      |      |         |      |      |    |          |
| F2008K1412K | 12500 | 1050  |    |      |      |         |      |      |    |          |
| F2008K1412R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2008K1412V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2008K1412A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2005K1412Z | 1800  | 650   | 20 | 14   | 2835 | 120     | 120° | 1.2  | 25 | 5000 x 5 |
| F2005K1412Y | 2500  | 980   |    |      |      |         |      |      |    |          |
| F2005K1412X | 2700  | 995   |    |      |      |         |      |      |    |          |
| F2005K1412C | 3000  | 1060  |    |      |      |         |      |      |    |          |
| F2005K1412E | 3500  | 1190  |    |      |      |         |      |      |    |          |
| F2005K1412N | 4000  | 1320  |    |      |      |         |      |      |    |          |
| F2005K1412F | 6000  | 1390  |    |      |      |         |      |      |    |          |
| F2005K1412G | 7000  | 1060  |    |      |      |         |      |      |    |          |
| F2005K1412H | 10000 | 1000  |    |      |      |         |      |      |    |          |
| F2005K1412K | 12500 | 1050  |    |      |      |         |      |      |    |          |
| F2005K1412R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2005K1412V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2005K1412A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



PCB ANCHO 8 mm / PCB WIDTH 8 mm

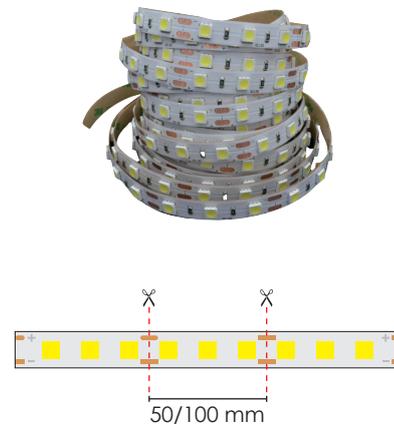
CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2008K1424Z | 1800  | 680   | 20 | 14   | 2835 | 120     | 120° | 0.6  | 50 | 5000 x 8 |
| F2008K1424Y | 2500  | 985   |    |      |      |         |      |      |    |          |
| F2008K1424X | 2700  | 1070  |    |      |      |         |      |      |    |          |
| F2008K1424C | 3000  | 1105  |    |      |      |         |      |      |    |          |
| F2008K1424E | 3500  | 1250  |    |      |      |         |      |      |    |          |
| F2008K1424N | 4000  | 1390  |    |      |      |         |      |      |    |          |
| F2008K1424F | 6000  | 1490  |    |      |      |         |      |      |    |          |
| F2008K1424G | 7000  | 1105  |    |      |      |         |      |      |    |          |
| F2008K1424H | 10000 | 1105  |    |      |      |         |      |      |    |          |
| F2008K1424K | 12500 | 1125  |    |      |      |         |      |      |    |          |
| F2008K1424R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2008K1424V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2008K1424A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.        | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|-------|-------|----|------|------|---------|------|------|----|----------|
| F2005K1424Z | 1800  | 680   | 20 | 14   | 2835 | 120     | 120° | 0.6  | 50 | 5000 x 5 |
| F2005K1424Y | 2500  | 985   |    |      |      |         |      |      |    |          |
| F2005K1424X | 2700  | 1070  |    |      |      |         |      |      |    |          |
| F2005K1424C | 3000  | 1105  |    |      |      |         |      |      |    |          |
| F2005K1424E | 3500  | 1250  |    |      |      |         |      |      |    |          |
| F2005K1424N | 4000  | 1390  |    |      |      |         |      |      |    |          |
| F2005K1424F | 6000  | 1490  |    |      |      |         |      |      |    |          |
| F2005K1424G | 7000  | 1105  |    |      |      |         |      |      |    |          |
| F2005K1424H | 10000 | 1105  |    |      |      |         |      |      |    |          |
| F2005K1424K | 12500 | 1125  |    |      |      |         |      |      |    |          |
| F2005K1424R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| F2005K1424V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| F2005K1424A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

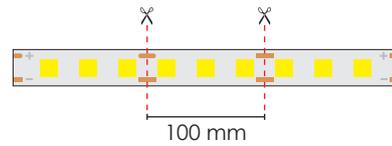


TIRAS LED 12 VCC / LED STRIPS 12 VDC

CRI ≥ 80Ra

| REF.          | °K        | LM/mt  | IP | W/mt | SMD  | LEDS/mt | ∠°   | A/mt | ✂   | MM       |
|---------------|-----------|--|----|------|------|---------|------|------|-----|----------|
| F2008C1412X   | 2700      |  900  | 20 | 14.4 | 5050 | 60      | 120° | 1.2  | 50  | 5000 x 8 |
| F2008C1412N   | 4200      |  1050 |    |      |      |         |      |      |     |          |
| F2008C1412F   | 6000      |  1170 |    |      |      |         |      |      |     |          |
| F2008C1412R   | ROJO/RED  |  630  |    |      |      |         |      |      |     |          |
| F2008C1412A   | AZUL/BLUE |  525  |    |      |      |         |      |      |     |          |
| F2008C1412RGB | RGB       |  990  |    |      |      |         |      |      |     |          |
| F20C1412RGBC  | RGB+3000  |  990  |    |      |      |         |      |      | 100 |          |
| F20C1412RGBF  | RGB+6000  |  990  |    |      |      |         |      |      |     |          |



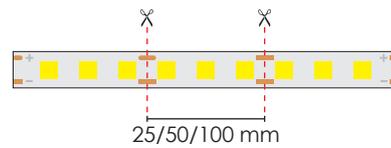


TIRAS LED 24 VCC / LED STRIPS 24 VDC

CRI ≥ 80Ra

| REF.          | °K    | LM/mt  | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂   | MM        |
|---------------|-------|--|----|------|------|---------|------|------|-----|-----------|
| F2010C1424Y   | 2500  |  880  | 20 | 14.4 | 5050 | 60      | 120° | 0.6  | 100 | 5000 x 10 |
| F2010C1424X   | 2700  |  900  |    |      |      |         |      |      |     |           |
| F2010C1424N   | 4200  |  1050 |    |      |      |         |      |      |     |           |
| F2010C1424F   | 6000  |  1170 |    |      |      |         |      |      |     |           |
| F2010C1424H   | 10000 |  1190 |    |      |      |         |      |      |     |           |
| F2010C1424RGB | RGB   |  990  |    |      |      |         |      |      |     |           |





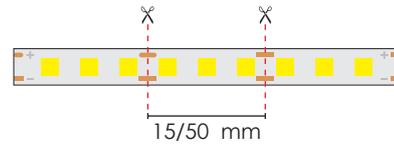
Equipada con sensor de temperatura para evitar sobrecalentamientos y estabilizador de tensión que protege contra variaciones eléctricas. Diseñada para funcionar 24/7/365.

Equipped with a temperature sensor to prevent overheating and a voltage stabilizer that protects against power surges. Designed to operate 24/7/365.

| TIRAS LED 24 VCC / LED STRIPS 24 VDC |      |       |    |      |      |         |      |      |     | CRI ≥ 80Ra |
|--------------------------------------|------|-------|----|------|------|---------|------|------|-----|------------|
| REF.                                 | °K   | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂   | MM         |
| F2008HQC1024X                        | 2700 | 720   | 20 | 9.6  | 3528 | 60      | 120° | 0.4  | 100 | 5000 x 8   |
| F2008HQC1024N                        | 4200 | 840   |    |      |      |         |      |      |     |            |
| F2008HQC1024F                        | 5700 | 900   |    |      |      |         |      |      |     |            |
| F6510HQC1024X                        | 2700 | 720   | 65 | 19.1 | 3528 | 120     | 120° | 0.8  | 50  | 5000 x 10  |
| F6510HQC1024N                        | 4200 | 840   |    |      |      |         |      |      |     |            |
| F6510HQC1024F                        | 5700 | 900   |    |      |      |         |      |      |     |            |
| F2008HQB1924X                        | 2700 | 1440  | 20 | 21   | 3014 | 240     | 120° | 0.9  | 25  | 5000 x 10  |
| F2008HQB1924N                        | 4200 | 1680  |    |      |      |         |      |      |     |            |
| F2008HQB1924F                        | 5700 | 1800  |    |      |      |         |      |      |     |            |
| F6510HQB1924X                        | 2700 | 1440  | 65 | 14.4 | 5050 | 60      | 120° | 0.6  | 100 | 5000 x 10  |
| F6510HQB1924N                        | 4200 | 1680  |    |      |      |         |      |      |     |            |
| F6510HQB1924F                        | 5700 | 1800  |    |      |      |         |      |      |     |            |
| F2010HQW2124X                        | 2700 | 1800  | 20 | 14.4 | 5050 | 60      | 120° | 0.6  | 100 | 5000 x 10  |
| F2010HQW2124N                        | 4200 | 1950  |    |      |      |         |      |      |     |            |
| F2010HQW2124F                        | 5700 | 2100  |    |      |      |         |      |      |     |            |
| F20HQC1424RGB                        | RGB  | 970   | 20 | 14.4 | 5050 | 60      | 120° | 0.6  | 100 | 5000 x 10  |
| F65HQC1424RGB                        |      | 970   | 65 |      |      |         |      |      |     |            |



USB-A (M) con 90 cm cable 22 AWG  
USB-A (M) with 90 cm 22 AWG cable



Tiras LED flexibles IP20 en rollos de 2 metros.  
Aptas para Power Bank o FA 5 VCC.  
Consulte la sección de accesorios para montaje.

Flexible IP20 LED strips in reels of 2 meters.  
Suitable for Power Bank or Power supply 5 VDC.  
See mounting accessories section.



**TIRAS LED 5 VCC / LED STRIPS 5 VDC**

CRI ≥ 80Ra

| REF.          | °K   | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|------|-------|----|------|------|---------|------|------|----|----------|
| F2008C0505C   | 3000 |       | 20 | 4.8  | 3528 | 60      | 120° | 0.96 | 15 | 2000 x 8 |
| F2008C0505F   | 6000 |       |    |      |      |         |      |      |    |          |
| F2008C0505RGB | RGB  |       |    |      |      |         |      |      |    |          |



Vivimos en una época de exposición realizada en la que se hace hincapié en la imagen y la estética. Por lo tanto, para ser competitivos, es imprescindible mostrar los productos mejorando su presentación lo máximo posible.

**BOEL-TRONIC** desea ayudarles en ese cometido y por ello hemos desarrollado una gama completa de Tiras LED para realzar la exposición específica de cada producto:

*We live in an age of enhanced display where the emphasis is on image and aesthetics. Therefore, to be competitive, it is imperative to showcase products by enhancing their presentation as much as possible.*

**BOEL-TRONIC** wants to help you in this task and we have developed a complete range of LED Strips to enhance the specific display of each product:

|                                      |   |   |  |
|--------------------------------------|---|---|--|
| <b>CÁRNICOS</b><br><b>MEAT</b>       | O |  | Color rosado ideal para expositores de carnes o embutidos no envasados<br><i>Pink color ideal for meat or sausage displays not packaged</i>                  |
| <b>PESCADOS</b><br><b>FISH</b>       | P |  | Color azulado que da frescor resaltando el brillo de ojos y escamas<br><i>Blue color that gives freshness highlighting the brightness of eyes and scales</i> |
| <b>VERDURAS</b><br><b>VEGETABLES</b> | Q |  | Color verde suave óptimo para frutas, verduras y hortalizas<br><i>Soft green color ideal for fruits, vegetables and greens</i>                               |
| <b>PANADERÍA</b><br><b>BAKERY</b>    | W |  | Color ámbar que destaca los distintos tonos de panes y bollería<br><i>Amber color that highlights the different tones of breads and pastries</i>             |
| <b>JOYERÍA</b><br><b>JEWELRY</b>     | Z |  | Color ultra-ámbar que realza el brillo de los productos dorados<br><i>Dark amber color that enhances the shine of golden products</i>                        |

En la página siguiente disponen de una tabla con las opciones más usadas, aunque al ser un producto de fabricación propia podemos adaptarlo a sus necesidades.

*In the following page you have a table with the most used options, although being a product of our own manufacture we can adapt it to your needs.*

ROLLOS DE 5 MT. / 5 MT. ROLLS

CRI ≥ 90Ra

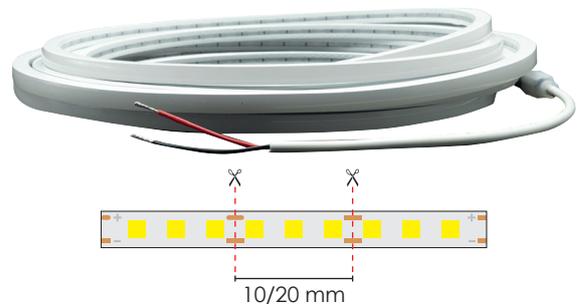
| REF.        | °K                       |   | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|-------------|--------------------------|---|----|------|------|---------|------|------|----|----------|
| F2008K1024O | CÁRNICOS<br>MEAT         |  | 20 | 9.6  | 2835 | 120     | 120° | 0.4  | 50 | 5000 x 8 |
| F2008K1024P | PESCADOS<br>FISH         |  |    |      |      |         |      |      |    |          |
| F2008K1024Q | VERDURAS<br>VEGETABLES   |  |    |      |      |         |      |      |    |          |
| F2008K1024W | PANADERÍA<br>BAKERY      |  |    |      |      |         |      |      |    |          |
| F2008K1024Y | JOYERÍA<br>JEWELRY       |  |    |      |      |         |      |      |    |          |
| F2008K1024U | LUZ NEGRA<br>BLACK LIGHT |  |    |      |      |         |      |      |    |          |

ROLLOS DE 25 MT. / 25 MT. ROLLS

CRI ≥ 90Ra

| REF.          | °K                       |   | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM        |
|---------------|--------------------------|---|----|------|------|---------|------|------|----|-----------|
| 25F2008K1024O | CÁRNICOS<br>MEAT         |  | 20 | 9.6  | 2835 | 120     | 120° | 0.4  | 50 | 25000 x 8 |
| 25F2008K1024P | PESCADOS<br>FISH         |  |    |      |      |         |      |      |    |           |
| 25F2008K1024Q | VERDURAS<br>VEGETABLES   |  |    |      |      |         |      |      |    |           |
| 25F2008K1024W | PANADERÍA<br>BAKERY      |  |    |      |      |         |      |      |    |           |
| 25F2008K1024Y | JOYERÍA<br>JEWELRY       |  |    |      |      |         |      |      |    |           |
| 25F2008K1024U | LUZ NEGRA<br>BLACK LIGHT |  |    |      |      |         |      |      |    |           |





**TIRAS LED 12VCC / LED STRIPS 12VDC**

CRI ≥ 90Ra

| REF.        | °K   | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM           |
|-------------|------|-------|----|------|------|---------|------|------|----|--------------|
| F6506X0612X | 2700 | 300   | 65 | 6    | 1812 | 336     | 180° | 0.5  | 10 | 5000 x 6 x 6 |
| F6506X0612N | 4200 | 390   |    |      |      |         |      |      |    |              |

**TIRAS LED 24VCC / LED STRIPS 24VDC**

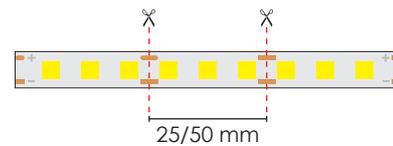
CRI ≥ 90Ra

| REF.        | °K   | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM           |
|-------------|------|-------|----|------|------|---------|------|------|----|--------------|
| F6506X0624X | 2700 | 310   | 65 | 6    | 1812 | 336     | 180° | 0.25 | 20 | 5000 x 6 x 6 |
| F6506X0624N | 4200 | 400   |    |      |      |         |      |      |    |              |

**ACCESORIOS / ACCESSORIES**

| REF.    | DESCRIPCIÓN / DESCRIPTION                  |   |
|---------|--|---|
| TA0606A | Tapa final con agujero / End cap with hole |  |
| TA0606  | Tapa final / End cap                       |  |





**TIRAS LED 12VCC / LED STRIPS 12VDC**

CRI ≥ 90Ra

| REF.          | °K   | LM/mt | IP | W/mt | SMD | LEDS/mt | °    | A/mt | ✂  | MM             |
|---------------|------|-------|----|------|-----|---------|------|------|----|----------------|
| F6510B1012C   | 3000 | 915   | 65 | 9.6  | COB | 480     | 180° | 0.8  | 25 | 5000 x 10 x 4  |
| 25F6510B1012C |      |       |    |      |     |         |      |      |    | 25000 x 10 x 4 |
| F6510B1012N   | 4000 | 980   |    |      |     |         |      |      |    | 5000 x 10 x 4  |
| 25F6510B1012N |      |       |    |      |     |         |      |      |    | 25000 x 10 x 4 |

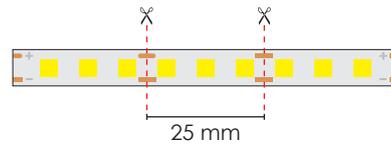
**TIRAS LED 24VCC / LED STRIPS 24VDC**

CRI ≥ 90Ra

| REF.          | °K   | LM/mt | IP | W/mt | SMD | LEDS/mt | °    | A/mt | ✂  | MM             |
|---------------|------|-------|----|------|-----|---------|------|------|----|----------------|
| 25F6510B1024C | 3000 | 915   | 65 | 9.6  | COB | 480     | 180° | 0.4  | 50 | 25000 x 10 x 4 |
| 25F6510B1024N | 4000 | 980   |    |      |     |         |      |      |    |                |
| 25F6510B1024F | 6000 | 1100  |    |      |     |         |      |      |    |                |

**ACCESORIOS / ACCESSORIES**

| REF.          | DESCRIPCIÓN / DESCRIPTION                                |  |
|---------------|--|--|
| CONLC10F6510B | Conector angulo 90°<br>90° angle connector               |  |
| CONMD10F6510B | Conector recto<br>Straight connector                     |  |
| CONPC10F6510B | 30cm mang. bl. + conector<br>30cm white wire + connector |  |
| TASF6510B     | Tapa final silicona<br>Silicone end cap                  |  |



NEONFLEX 12 VCC / NEONFLEX 12 VDC

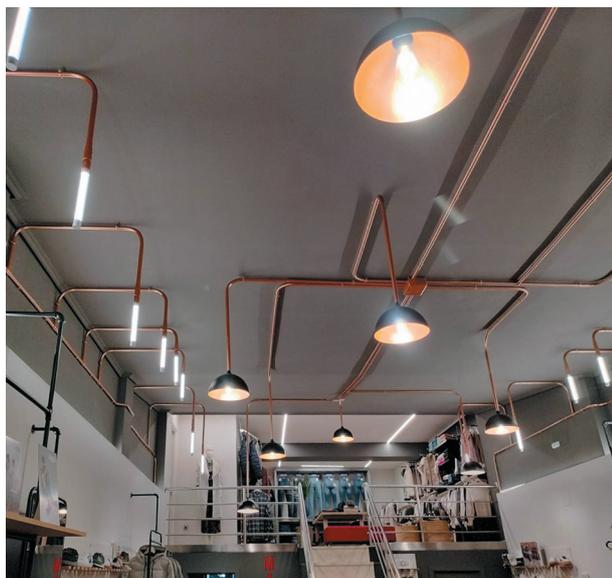
CRI ≥ 80Ra

| REF.         | °K       | LM/mt   | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM            |
|--------------|----------|---|----|------|------|---------|------|------|----|---------------|
| NF1206K1212C | 3000     |  289 | 67 | 12   | 2835 | 120     | 120° | 1    | 25 | 5000 x 6 x 12 |
| NF1206K1212N | 4200     |  297 |    |      |      |         |      |      |    |               |
| NF1206K1212F | 6000     |  300 |    |      |      |         |      |      |    |               |
| NF1206K1212R | ROJO/RED |  220 |    |      |      |         |      |      |    |               |

ACCESORIOS / ACCESSORIES

|          |  |   |
|----------|--|---|
| TANF1206 | TAPAS FINALES ESTANCAS / WATERPROFF END CAPS |  |
| GRNF1206 | GRAPA DE FIJACIÓN / METAL FIXING CLIP        |  |





### Te lo fabricamos a medida – completamente personalizado para tu proyecto

La iluminación LED con **Neonflex 360°** es una solución moderna y flexible que ofrece una luz uniforme en todas las direcciones (360 grados), ideal para proyectos personalizados tanto en interiores como en exteriores. Su diseño tubular y flexible permite adaptarse a formas curvas, letras, estructuras arquitectónicas y elementos decorativos.

#### Ventajas:

- **Iluminación homogénea en 360°**, sin puntos visibles ni sombras.
- **Alta flexibilidad**, ideal para diseños creativos y a medida.
- **Eficiencia energética**, con menor consumo que sistemas tradicionales.
- **Durabilidad y resistencia**, incluso en exteriores (IP65+).
- **Fácil instalación**, sin necesidad de estructuras complejas.
- **Amplia gama de colores y temperaturas de luz.**

Es una opción estética, versátil y sostenible para iluminación arquitectónica, comercial, artística y señalética.

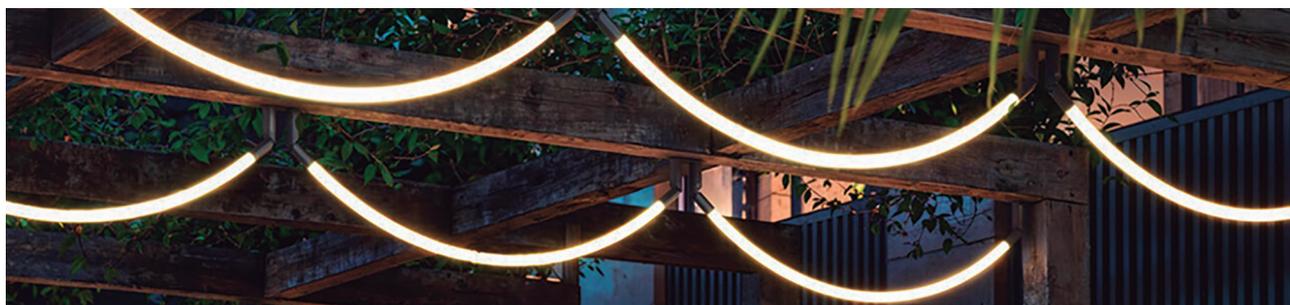
### We build it to measure – fully customized for your project.

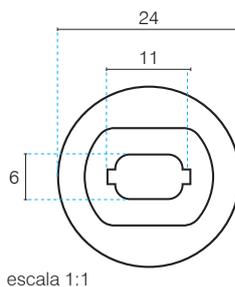
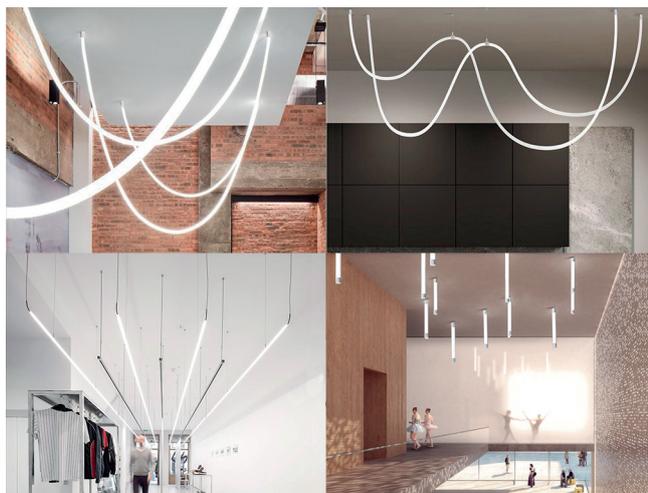
LED lighting with **360° Neonflex** is a modern, flexible solution that provides uniform light in all directions (360 degrees), making it ideal for customized indoor and outdoor projects. Its tubular, bendable design allows it to adapt to curved shapes, lettering, architectural structures, and decorative elements.

#### Advantages:

- **Even 360° illumination** with no visible dots or shadows.
- **High flexibility**, perfect for creative and custom designs.
- **Energy efficiency**, with lower consumption than traditional systems.
- **Durability and resistance**, suitable even for outdoor use (IP65+).
- **Easy installation**, no complex structures required.
- **Wide range of colors and light temperatures.**

It's an aesthetic, versatile, and sustainable option for architectural, commercial, artistic, and signage lighting.





Extrusión de silicona de nueva tecnología que permite realizar un haz de 360° de luz uniforme, sin puntos de luz. Gracias a ser un material flexible, permite realizar múltiples formas, ideales para decoración.

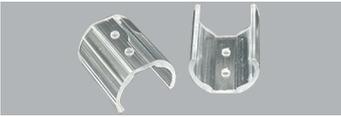
Protección IP67 - Resistente a soluciones salinas, ácidos, corrosión y llamas.

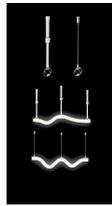
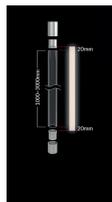
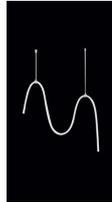
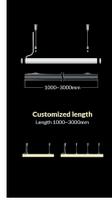
Bajo pedido, realizamos el montaje con las especificaciones que nos solicite.

*Silicone extrusion of new technology that allows a 360° beam of uniform light, without light spots. Thanks to its flexible material, it allows multiple shapes to be made, ideal for decoration.*

*IP67 protection - Resistant to saline solutions, acids, corrosion and flames.*

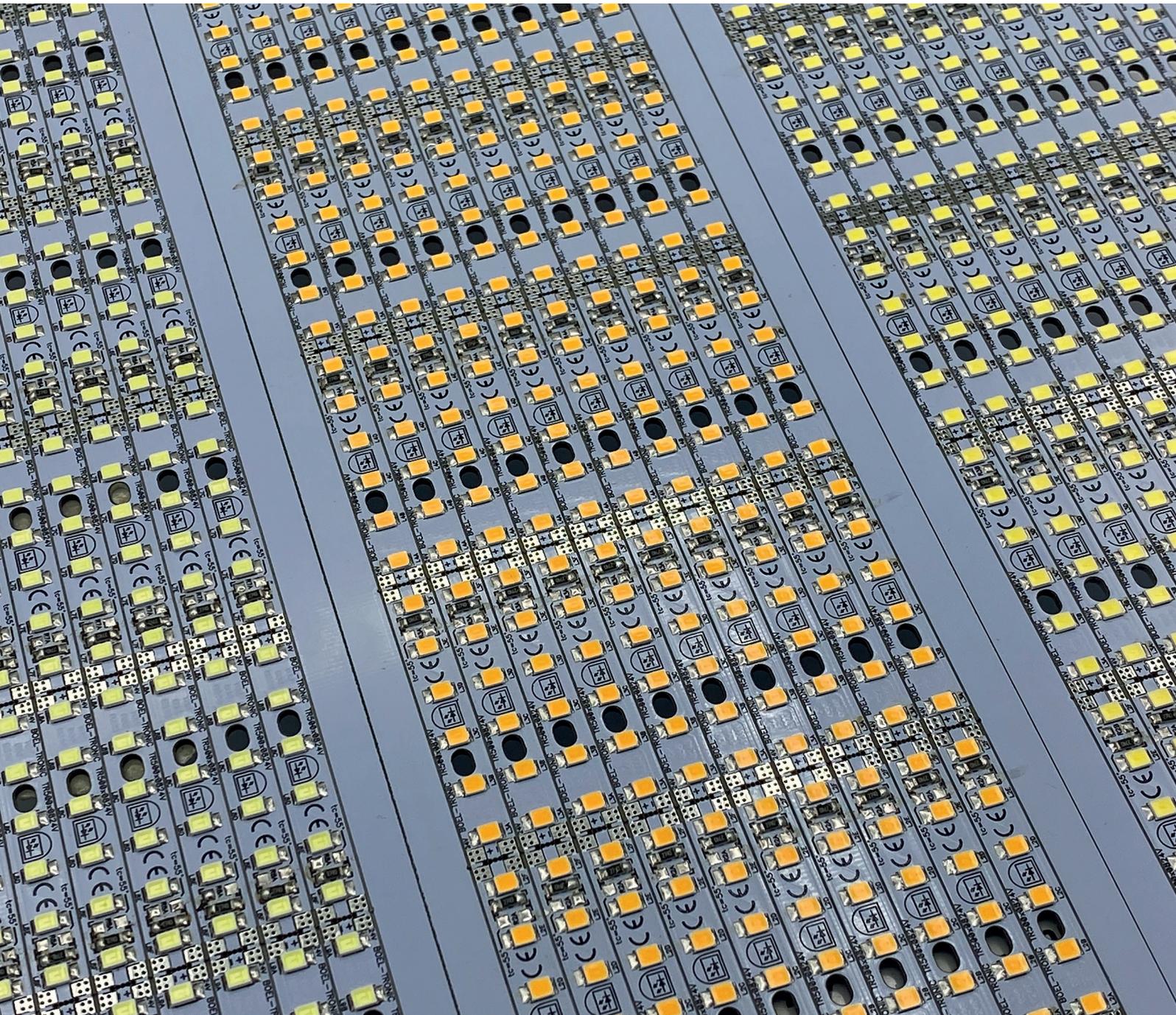
*On request, we can make the assembly with the specifications you request.*

| CÓDIGO<br>CODE | DESCRIPCIÓN<br>DESCRIPTION  |   |
|----------------|---|---|
| NFR24D360      | 1mt tubo de silicona ø24mm 360° con antipolvo<br><i>1 mt round silicone tube ø24mm 360° w/anti-dust coating</i>     |  |
| PMR3030B       | 1mt. Perfil PMMA blanco glaseado ø30mm<br><i>1 mt PMMA profile white glazed ø30mm</i>                               |  |
| PMR3030T       | 1mt. Perfil PC transparente ø30mm<br><i>1 mt Transparent PC tube ø30mm</i>  |  |
| TANFR24D360A   | Tapa silicona con agujero<br><i>Silicone end cap with hole for round silicone ø24mm</i>                             |  |
| TANFR24D360    | Tapa silicona sin agujero<br><i>Silicone end cap without hole for round silicone ø24mm</i>                          |  |
| TAPMR30BA      | Tapa plastico blanca perfil pmma ø30mm con agujero<br><i>Plastic end cap with hole white for PMMA profile ø30mm</i> |  |
| TAPMR30B       | Tapa plastico blanca perfil pmma ø30mm<br><i>Plastic end cap white for PMMA profile ø30mm</i>                       |  |
| GRNFR24D360    | Grapa pc para NFR24D360<br><i>PC mounted clip for NFR24D360</i>   |  |

| CÓDIGO<br>CODE | DESCRIPCIÓN<br>DESCRIPTION  |  |   |
|----------------|---|--|---|
| ASNFR24D360T   | Varilla telescópica para techo<br><i>Telescopic Ceiling installation</i>                      |    |    |
| ASNFR24D360VT  | Kit acces. Instal. 1 Tubo vertic. Techo<br><i>Accessories for Vertical Ceiling instal.</i>    |    |    |
| ASNFR24D360    | Kit acces. Instal. 1 Tubo susp. Tensor<br><i>Accessories for Steel rope instal.</i>           |   |    |
| ASNFR24D360H   | Kit acces. Instal. 1 Tubo horizontal<br><i>Accessories for Horizontal Hoisting instal.</i>    |  |  |
| ASNFR24D360V   | Kit acces. Instal. 1 Tubo en susp. Vertic<br><i>Accessories for Vertical Hoisting instal.</i> |  |  |
| ASNFR24D360P   | Kit acces. Instal. 1 Tubo en pared<br><i>Accessories for Wall Mounting instal.</i>            |  |  |
| ASNFR24D360D   | Kit acces. Instal. 1 Tubo doble fijación<br><i>Acces. for Double-head ceiling instal.</i>     |  |  |
| ASNFR24D360R   | Kit acces. Instal. 1 Tubo círculo red.<br><i>Accessories for Round Hoisting instal.</i>       |  |  |

# TIRAS LED RÍGIDAS

## RIGID LED STRIPS



# FABRICACIÓN DE TIRAS LED RÍGIDAS

## MANUFACTURE OF RIGID LED STRIPS



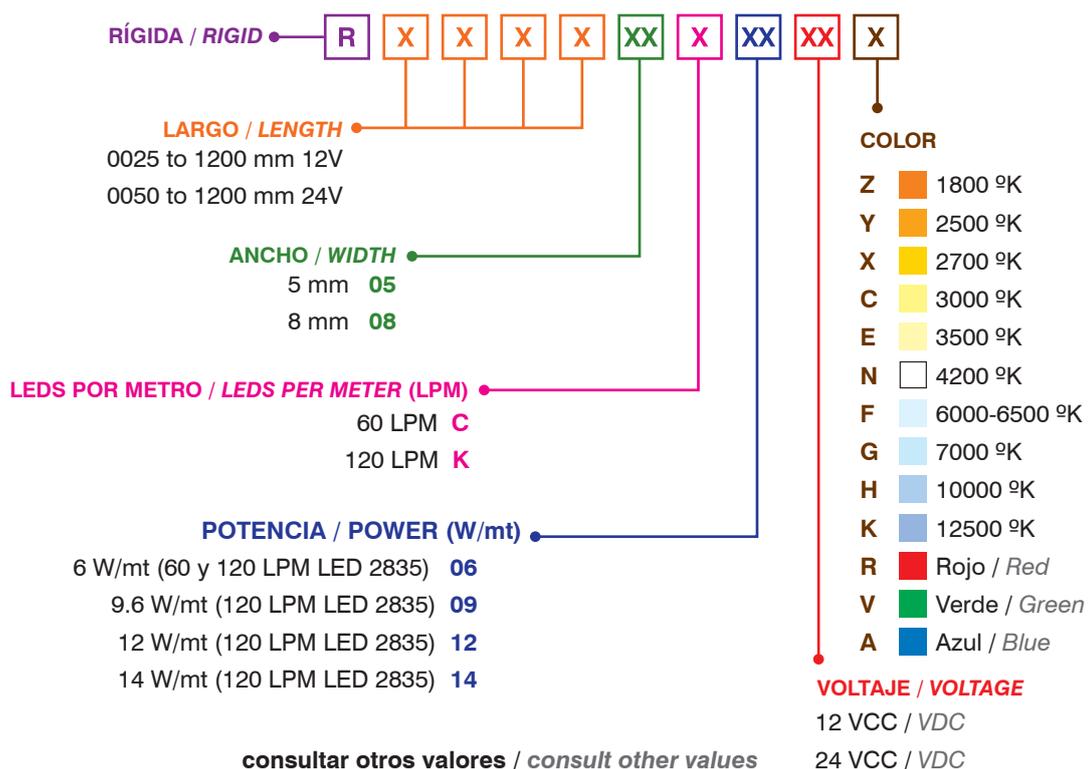
En **BOEL-TRONIC** fabricamos TIRAS RÍGIDAS de hasta 1200 mm, lo que nos permite adaptarlas a cualquier necesidad. Esta rigidez las hace adecuadas para aplicaciones en las que se necesita un dispositivo de iluminación más estructurado y robusto. Están diseñadas para proporcionar soluciones de iluminación eficientes y versátiles para diversas aplicaciones.

Al igual que con las tiras flexibles, ofrecemos a nuestros clientes la posibilidad de realizar proyectos totalmente personalizados. ¡Consúltenos!

At **BOEL-TRONIC** we manufacture RIGID STRIPS up to 1200 mm, which allows us to adapt them to any need. This rigidity makes them suitable for applications where a more structured and robust lighting device is required. They are designed to provide efficient and versatile lighting solutions for a variety of applications.

As with the flexible strips, we offer our customers the possibility of creating totally customized projects, just ask us!

- Dimensiones / Dimensions
- Luminosidad / Brightness
- Potencia / Power
- Disipación / Dissipation
- Consumo / Consumption
- Solidez / Robustness
- Temperatura de color / Colour temperature
- Color / Tono / RGB / Colour / Tone / RGB
- Separación entre Led's / Separation between LED's
- Distancia de corte / Cut-off distance

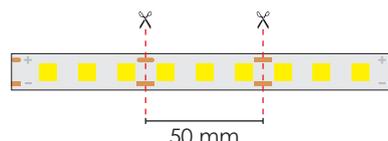




8mm 60 LEDS/mt



5mm 60 LEDS/mt



PCB ANCHO 8 mm / PCB WIDTH 8 mm

CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120008C0612Z | 1800  | 300   | 20 | 6    | 2835 | 60      | 120° | 0.5  | 50 | 1200 x 8 |
| R120008C0612Y | 2500  | 440   |    |      |      |         |      |      |    |          |
| R120008C0612X | 2700  | 450   |    |      |      |         |      |      |    |          |
| R120008C0612C | 3000  | 490   |    |      |      |         |      |      |    |          |
| R120008C0612E | 3500  | 535   |    |      |      |         |      |      |    |          |
| R120008C0612N | 4000  | 585   |    |      |      |         |      |      |    |          |
| R120008C0612F | 6000  | 635   |    |      |      |         |      |      |    |          |
| R120008C0612G | 7000  | 490   |    |      |      |         |      |      |    |          |
| R120008C0612H | 10000 | 470   |    |      |      |         |      |      |    |          |
| R120008C0612K | 12500 | 475   |    |      |      |         |      |      |    |          |
| R120008C0612R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120008C0612V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120008C0612A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

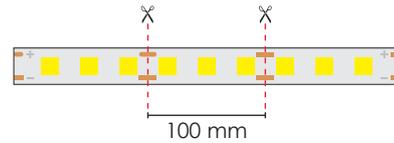
| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120005C0612Z | 1800  | 300   | 20 | 6    | 2835 | 60      | 120° | 0.5  | 50 | 1200 x 5 |
| R120005C0612Y | 2500  | 440   |    |      |      |         |      |      |    |          |
| R120005C0612X | 2700  | 450   |    |      |      |         |      |      |    |          |
| R120005C0612C | 3000  | 490   |    |      |      |         |      |      |    |          |
| R120005C0612E | 3500  | 535   |    |      |      |         |      |      |    |          |
| R120005C0612N | 4000  | 585   |    |      |      |         |      |      |    |          |
| R120005C0612F | 6000  | 635   |    |      |      |         |      |      |    |          |
| R120005C0612G | 7000  | 490   |    |      |      |         |      |      |    |          |
| R120005C0612H | 10000 | 470   |    |      |      |         |      |      |    |          |
| R120005C0612K | 12500 | 475   |    |      |      |         |      |      |    |          |
| R120005C0612R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120005C0612V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120005C0612A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



8mm 60 LEDS/mt



5mm 60 LEDS/mt



PCB ANCHO 8 mm / PCB WIDTH 8 mm

CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂   | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|-----|----------|
| R120008C0624Z | 1800  | 325   | 20 | 6    | 2835 | 60      | 120° | 0.25 | 100 | 1200 x 8 |
| R120008C0624Y | 2500  | 475   |    |      |      |         |      |      |     |          |
| R120008C0624X | 2700  | 490   |    |      |      |         |      |      |     |          |
| R120008C0624C | 3000  | 520   |    |      |      |         |      |      |     |          |
| R120008C0624E | 3500  | 580   |    |      |      |         |      |      |     |          |
| R120008C0624N | 4000  | 645   |    |      |      |         |      |      |     |          |
| R120008C0624F | 6000  | 695   |    |      |      |         |      |      |     |          |
| R120008C0624G | 7000  | 520   |    |      |      |         |      |      |     |          |
| R120008C0624H | 10000 | 510   |    |      |      |         |      |      |     |          |
| R120008C0624K | 12500 | 515   |    |      |      |         |      |      |     |          |
| R120008C0624R | ROJO  | 625nm |    |      |      |         |      |      |     |          |
| R120008C0624V | VERDE | 525nm |    |      |      |         |      |      |     |          |
| R120008C0624A | AZUL  | 460nm |    |      |      |         |      |      |     |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

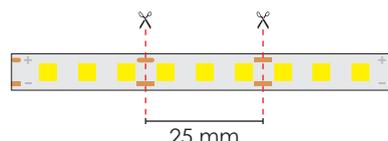
| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂   | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|-----|----------|
| R120005C0624Z | 1800  | 325   | 20 | 6    | 2835 | 60      | 120° | 0.25 | 100 | 1200 x 5 |
| R120005C0624Y | 2500  | 475   |    |      |      |         |      |      |     |          |
| R120005C0624X | 2700  | 490   |    |      |      |         |      |      |     |          |
| R120005C0624C | 3000  | 520   |    |      |      |         |      |      |     |          |
| R120005C0624C | 3500  | 580   |    |      |      |         |      |      |     |          |
| R120005C0624N | 4000  | 645   |    |      |      |         |      |      |     |          |
| R120005C0624F | 6000  | 695   |    |      |      |         |      |      |     |          |
| R120005C0624G | 7000  | 520   |    |      |      |         |      |      |     |          |
| R120005C0624H | 10000 | 510   |    |      |      |         |      |      |     |          |
| R120005C0624K | 12500 | 515   |    |      |      |         |      |      |     |          |
| R120005C0624R | ROJO  | 625nm |    |      |      |         |      |      |     |          |
| R120005C0624V | VERDE | 525nm |    |      |      |         |      |      |     |          |
| R120005C0624A | AZUL  | 460nm |    |      |      |         |      |      |     |          |



8mm 120 LEDS/mt



5mm 120 LEDS/mt



PCB ANCHO 8 mm / PCB WIDTH 8 mm

CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120008K1012Z | 1800  | 300   | 20 | 9.6  | 2835 | 120     | 120° | 0.8  | 25 | 5000 x 8 |
| R120008K1012Y | 2500  | 440   |    |      |      |         |      |      |    |          |
| R120008K1012X | 2700  | 450   |    |      |      |         |      |      |    |          |
| R120008K1012C | 3000  | 490   |    |      |      |         |      |      |    |          |
| R120008K1012E | 3500  | 535   |    |      |      |         |      |      |    |          |
| R120008K1012N | 4000  | 585   |    |      |      |         |      |      |    |          |
| R120008K1012F | 6000  | 635   |    |      |      |         |      |      |    |          |
| R120008K1012G | 7000  | 490   |    |      |      |         |      |      |    |          |
| R120008K1012H | 10000 | 470   |    |      |      |         |      |      |    |          |
| R120008K1012K | 12500 | 475   |    |      |      |         |      |      |    |          |
| R120008K1012R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120008K1012V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120008K1012A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

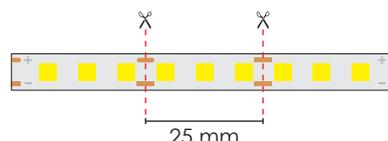
| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM      |
|---------------|-------|-------|----|------|------|---------|------|------|----|---------|
| R120005K1012Z | 1800  | 300   | 20 | 9.6  | 2835 | 120     | 120° | 0.4  | 50 | 5000 x5 |
| R120005K1012Y | 2500  | 440   |    |      |      |         |      |      |    |         |
| R120005K1012X | 2700  | 450   |    |      |      |         |      |      |    |         |
| R120005K1012C | 3000  | 490   |    |      |      |         |      |      |    |         |
| R120005K1012E | 3500  | 535   |    |      |      |         |      |      |    |         |
| R120005K1012N | 4000  | 585   |    |      |      |         |      |      |    |         |
| R120005K1012F | 6000  | 635   |    |      |      |         |      |      |    |         |
| R120005K1012G | 7000  | 490   |    |      |      |         |      |      |    |         |
| R120005K1012H | 10000 | 470   |    |      |      |         |      |      |    |         |
| R120005K1012K | 12500 | 475   |    |      |      |         |      |      |    |         |
| R120005K1012R | ROJO  | 625nm |    |      |      |         |      |      |    |         |
| R120005K1012V | VERDE | 525nm |    |      |      |         |      |      |    |         |
| R120005K1012A | AZUL  | 460nm |    |      |      |         |      |      |    |         |



8mm 120 LEDS/mt



5mm 120 LEDS/mt



PCB ANCHO 8 mm / PCB WIDTH 8 mm

CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120008K1024Z | 1800  | 300   | 20 | 9.6  | 2835 | 120     | 120° | 0.8  | 25 | 5000 x 8 |
| R120008K1024Y | 2500  | 440   |    |      |      |         |      |      |    |          |
| R120008K1024X | 2700  | 450   |    |      |      |         |      |      |    |          |
| R120008K1024C | 3000  | 490   |    |      |      |         |      |      |    |          |
| R120008K1024E | 3500  | 535   |    |      |      |         |      |      |    |          |
| R120008K1024N | 4000  | 585   |    |      |      |         |      |      |    |          |
| R120008K1024F | 6000  | 635   |    |      |      |         |      |      |    |          |
| R120008K1024G | 7000  | 490   |    |      |      |         |      |      |    |          |
| R120008K1024H | 10000 | 470   |    |      |      |         |      |      |    |          |
| R120008K1024K | 12500 | 475   |    |      |      |         |      |      |    |          |
| R120008K1024R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120008K1024V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120008K1024A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

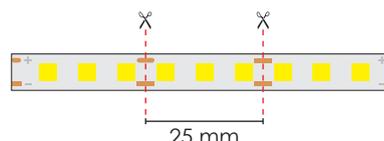
| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120005K1024Z | 1800  | 300   | 20 | 9.6  | 2835 | 120     | 120° | 0.4  | 50 | 5000 x 5 |
| R120005K1024Y | 2500  | 440   |    |      |      |         |      |      |    |          |
| R120005K1024X | 2700  | 450   |    |      |      |         |      |      |    |          |
| R120005K1024C | 3000  | 490   |    |      |      |         |      |      |    |          |
| R120005K1024E | 3500  | 535   |    |      |      |         |      |      |    |          |
| R120005K1024N | 4000  | 585   |    |      |      |         |      |      |    |          |
| R120005K1024F | 6000  | 635   |    |      |      |         |      |      |    |          |
| R120005K1024G | 7000  | 490   |    |      |      |         |      |      |    |          |
| R120005K1024H | 10000 | 470   |    |      |      |         |      |      |    |          |
| R120005K1024K | 12500 | 475   |    |      |      |         |      |      |    |          |
| R120005K1024R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120005K1024V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120005K1024A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



8mm 120 LEDS/mt



5mm 120 LEDS/mt



PCB ANCHO 8 mm / PCB WIDTH 8 mm

CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120008K1212Z | 1800  | 585   | 20 | 12   | 2835 | 120     | 120° | 1    | 25 | 1200 x 8 |
| R120008K1212Y | 2500  | 880   |    |      |      |         |      |      |    |          |
| R120008K1212X | 2700  | 890   |    |      |      |         |      |      |    |          |
| R120008K1212C | 3000  | 945   |    |      |      |         |      |      |    |          |
| R120008K1212E | 3500  | 1100  |    |      |      |         |      |      |    |          |
| R120008K1212N | 4000  | 1155  |    |      |      |         |      |      |    |          |
| R120008K1212F | 6000  | 1230  |    |      |      |         |      |      |    |          |
| R120008K1212G | 7000  | 945   |    |      |      |         |      |      |    |          |
| R120008K1212H | 10000 | 900   |    |      |      |         |      |      |    |          |
| R120008K1212K | 12500 | 930   |    |      |      |         |      |      |    |          |
| R120008K1212R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120008K1212V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120008K1212A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

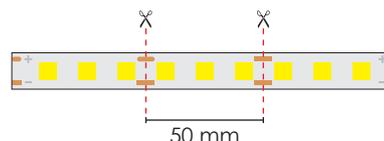
| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120005K1212Z | 1800  | 585   | 20 | 12   | 2835 | 120     | 120° | 1    | 25 | 1200 x 5 |
| R120005K1212Y | 2500  | 880   |    |      |      |         |      |      |    |          |
| R120005K1212X | 2700  | 890   |    |      |      |         |      |      |    |          |
| R120005K1212C | 3000  | 945   |    |      |      |         |      |      |    |          |
| R120005K1212E | 3500  | 1100  |    |      |      |         |      |      |    |          |
| R120005K1212N | 4000  | 1155  |    |      |      |         |      |      |    |          |
| R120005K1212F | 6000  | 1230  |    |      |      |         |      |      |    |          |
| R120005K1212G | 7000  | 945   |    |      |      |         |      |      |    |          |
| R120005K1212H | 10000 | 900   |    |      |      |         |      |      |    |          |
| R120005K1212K | 12500 | 930   |    |      |      |         |      |      |    |          |
| R120005K1212R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120005K1212V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120005K1212A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



8mm 120 LEDS/mt



5mm 120 LEDS/mt



PCB ANCHO 8 mm / PCB WIDTH 8 mm

CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120008K1224Z | 1800  | 635   | 20 | 12   | 2835 | 120     | 120° | 0.5  | 50 | 1200 x 8 |
| R120008K1224Y | 2500  | 940   |    |      |      |         |      |      |    |          |
| R120008K1224X | 2700  | 975   |    |      |      |         |      |      |    |          |
| R120008K1224C | 3000  | 1030  |    |      |      |         |      |      |    |          |
| R120008K1224E | 3500  | 1155  |    |      |      |         |      |      |    |          |
| R120008K1224N | 4000  | 1280  |    |      |      |         |      |      |    |          |
| R120008K1224F | 6000  | 1370  |    |      |      |         |      |      |    |          |
| R120008K1224G | 7000  | 1030  |    |      |      |         |      |      |    |          |
| R120008K1224H | 10000 | 990   |    |      |      |         |      |      |    |          |
| R120008K1224K | 12500 | 1020  |    |      |      |         |      |      |    |          |
| R120008K1224R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120008K1224V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120008K1224A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

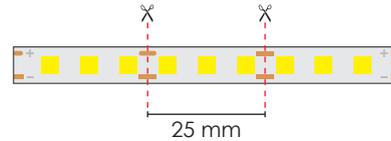
| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120005K1224Z | 1800  | 635   | 20 | 12   | 2835 | 120     | 120° | 0.5  | 50 | 1200 x 5 |
| R120005K1224Y | 2500  | 940   |    |      |      |         |      |      |    |          |
| R120005K1224X | 2700  | 975   |    |      |      |         |      |      |    |          |
| R120005K1224C | 3000  | 1030  |    |      |      |         |      |      |    |          |
| R120005K1224E | 3500  | 1155  |    |      |      |         |      |      |    |          |
| R120005K1224N | 4000  | 1280  |    |      |      |         |      |      |    |          |
| R120005K1224F | 6000  | 1370  |    |      |      |         |      |      |    |          |
| R120005K1224G | 7000  | 1030  |    |      |      |         |      |      |    |          |
| R120005K1224H | 10000 | 990   |    |      |      |         |      |      |    |          |
| R120005K1224K | 12500 | 1020  |    |      |      |         |      |      |    |          |
| R120005K1224R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120005K1224V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120005K1224A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



8mm 120 LEDS/mt



5mm 120 LEDS/mt



PCB ANCHO 8 mm / PCB WIDTH 8 mm

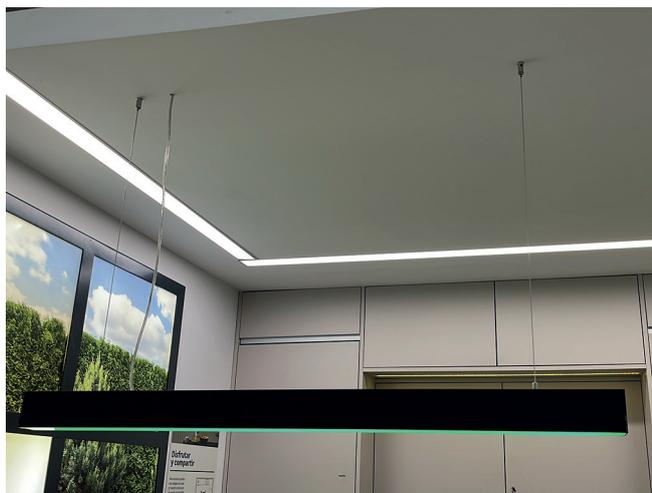
CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120008K1412Z | 1800  | 650   | 20 | 14   | 2835 | 120     | 120° | 1.2  | 25 | 1200 x 8 |
| R120008K1412Y | 2500  | 980   |    |      |      |         |      |      |    |          |
| R120008K1412X | 2700  | 995   |    |      |      |         |      |      |    |          |
| R120008K1412C | 3000  | 1060  |    |      |      |         |      |      |    |          |
| R120008K1412E | 3500  | 1190  |    |      |      |         |      |      |    |          |
| R120008K1412N | 4000  | 1320  |    |      |      |         |      |      |    |          |
| R120008K1412F | 6000  | 1390  |    |      |      |         |      |      |    |          |
| R120008K1412G | 7000  | 1060  |    |      |      |         |      |      |    |          |
| R120008K1412H | 10000 | 1000  |    |      |      |         |      |      |    |          |
| R120008K1412K | 12500 | 1050  |    |      |      |         |      |      |    |          |
| R120008K1412R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120008K1412V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120008K1412A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

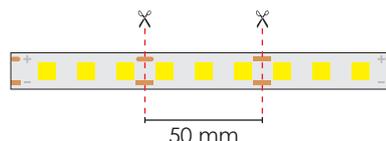
| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120005K1412Z | 1800  | 650   | 20 | 14   | 2835 | 120     | 120° | 1.2  | 25 | 1200 x 5 |
| R120005K1412Y | 2500  | 980   |    |      |      |         |      |      |    |          |
| R120005K1412X | 2700  | 995   |    |      |      |         |      |      |    |          |
| R120005K1412C | 3000  | 1060  |    |      |      |         |      |      |    |          |
| R120005K1412E | 3500  | 1190  |    |      |      |         |      |      |    |          |
| R120005K1412N | 4000  | 1320  |    |      |      |         |      |      |    |          |
| R120005K1412F | 6000  | 1390  |    |      |      |         |      |      |    |          |
| R120005K1412G | 7000  | 1060  |    |      |      |         |      |      |    |          |
| R120005K1412H | 10000 | 1000  |    |      |      |         |      |      |    |          |
| R120005K1412K | 12500 | 1050  |    |      |      |         |      |      |    |          |
| R120005K1412R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120005K1412V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120005K1412A | AZUL  | 460nm |    |      |      |         |      |      |    |          |



8mm 120 LEDS/mt



5mm 120 LEDS/mt



PCB ANCHO 8 mm / PCB WIDTH 8 mm

CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120008K1424Z | 1800  | 680   | 20 | 14   | 2835 | 120     | 120° | 0.6  | 50 | 1200 x 8 |
| R120008K1424Y | 2500  | 985   |    |      |      |         |      |      |    |          |
| R120008K1424X | 2700  | 1070  |    |      |      |         |      |      |    |          |
| R120008K1424C | 3000  | 1105  |    |      |      |         |      |      |    |          |
| R120008K1424E | 3500  | 1245  |    |      |      |         |      |      |    |          |
| R120008K1424N | 4000  | 1390  |    |      |      |         |      |      |    |          |
| R120008K1424F | 6000  | 1490  |    |      |      |         |      |      |    |          |
| R120008K1424G | 7000  | 1105  |    |      |      |         |      |      |    |          |
| R120008K1424H | 10000 | 1105  |    |      |      |         |      |      |    |          |
| R120008K1424K | 12500 | 1125  |    |      |      |         |      |      |    |          |
| R120008K1424R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120008K1424V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120008K1424A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

PCB ANCHO 5 mm / PCB WIDTH 5 mm

CRI ≥ 90Ra

| REF.          | °K    | LM/mt | IP | W/mt | SMD  | LEDS/mt | <°   | A/mt | ✂  | MM       |
|---------------|-------|-------|----|------|------|---------|------|------|----|----------|
| R120005K1424Z | 1800  | 680   | 20 | 14   | 2835 | 120     | 120° | 0.6  | 50 | 1200 x 5 |
| R120005K1424Y | 2500  | 985   |    |      |      |         |      |      |    |          |
| R120005K1424X | 2700  | 1070  |    |      |      |         |      |      |    |          |
| R120005K1424C | 3000  | 1105  |    |      |      |         |      |      |    |          |
| R120005K1424C | 3500  | 1245  |    |      |      |         |      |      |    |          |
| R120005K1424N | 4000  | 1390  |    |      |      |         |      |      |    |          |
| R120005K1424F | 6000  | 1490  |    |      |      |         |      |      |    |          |
| R120005K1424G | 7000  | 1105  |    |      |      |         |      |      |    |          |
| R120005K1424H | 10000 | 1105  |    |      |      |         |      |      |    |          |
| R120005K1424K | 12500 | 1125  |    |      |      |         |      |      |    |          |
| R120005K1424R | ROJO  | 625nm |    |      |      |         |      |      |    |          |
| R120005K1424V | VERDE | 525nm |    |      |      |         |      |      |    |          |
| R120005K1424A | AZUL  | 460nm |    |      |      |         |      |      |    |          |

# TIRAS LED RÍGIDAS

RIGID LED STRIPS



# 4.8 W



| REF.          | °K   | LM/u | PCB | W/u | SMD  | LEDS/u | <°  | A/u | CRI   | Max PCB | ✂    | MM      |
|---------------|------|------|-----|-----|------|--------|-----|-----|-------|---------|------|---------|
| R050008A0505X | 2700 |      | FR4 | 4.8 | 2835 | 40     | 120 | 1.2 | ≥80Ra | 4       | 12.5 | 500 x 8 |
| R050008A0505C | 3000 |      |     |     |      |        |     |     |       |         |      |         |
| R050008A0505E | 3500 |      |     |     |      |        |     |     |       |         |      |         |
| R050008A0505N | 4200 |      |     |     |      |        |     |     |       |         |      |         |
| R050008A0505F | 6000 |      |     |     |      |        |     |     |       |         |      |         |

Diseñadas para trabajar a bajo voltaje, estos modelos son ideales para su uso con pilas, baterías recargables "Power Banks", con valores ajustados de fábrica para cada ocasión.

*Designed to work at low voltage, these models are ideal for use with batteries, rechargeable batteries or Power Banks, with factory-adjusted values for each application.*

# TIRAS LED RÍGIDAS - LUZ DUAL

RIGID LED STRIPS - DUAL LIGHT



# 12 VCC VDC



El formato de LUZ DUAL nos permite crear dos tipos de iluminación en una sola tira de LED: Iluminación lateral y frontal. Configuraciones de color, potencia y temperatura de color son totalmente personalizables.

*The DUAL LIGHT format allows us to create two types of lighting in a single LED strip: Side and front lighting. Color, power and color temperature settings are fully customizable.*



| REF.                           | °K   | LM/mt | IP | PCB | W/mt  | SMD         | LEDS/mt | <°  | A/mt  | CRI   | ✂   | MM       |
|--------------------------------|------|-------|----|-----|-------|-------------|---------|-----|-------|-------|-----|----------|
| R120008 <b>WW</b> 12 <b>XX</b> | (**) | (***) | 20 | FR4 | (***) | 2835 & 3014 | 120     | 120 | (***) | ≥80Ra | 2.5 | 1200 x 8 |

**XX** = °K - Color frontal / °K - Front color  
**XX** = °K - Color lateral / °K - Side color  
**WW** = W/mt

(\*\*) Disponible en 2700°K a 12500°K, Rojo, Verde y Azul / Available in 2700°K to 12500°K, Red, Green & Blue  
 (\*\*\*) Según Temp/Color y formato elegido / According to Temp/Color and chosen format



3000K

4000K

6000K

Las tiras de LED's con ajuste de Control de Color de Temperatura (CCT), permiten cambiar el color de la luz entre tonos cálidos y fríos. Nuestras tiras LED son ideales para ajustar la iluminación según las preferencias y las necesidades.

LED strips with Color Control Temperature (CCT) adjustment, allow us to change the color of light between warm and cool tones. Our LED strips are ideal for adjusting lighting according to preferences and needs.

12 VCC VDC



| REF.          | °K              | LM/mt     | PCB | W/mt | SMD  | LEDS/mt | °   | A/mt | CRI   | ✂  | MM       |
|---------------|-----------------|-----------|-----|------|------|---------|-----|------|-------|----|----------|
| R120008K0612B | <br>3000K 6000K | 735-1035  | FR4 | 6    | 2835 | 120     | 120 | 0.5  | ≥80Ra | 50 | 1200 x 8 |
| R120008K1212B |                 | 975-1370  |     | 12   |      |         |     | 1    |       |    |          |
| R120008K1412B |                 | 1175-1565 |     | 14   |      |         |     | 1.2  |       |    |          |

24 VCC VDC



| REF.          | °K              | LM/mt     | PCB | W/mt | SMD  | LEDS/mt | °   | A/mt | CRI   | ✂  | MM       |
|---------------|-----------------|-----------|-----|------|------|---------|-----|------|-------|----|----------|
| R120008K0624B | <br>3000K 6000K | 735-1035  | FR4 | 6    | 2835 | 120     | 120 | 0.25 | ≥80Ra | 50 | 1200 x 8 |
| R120008K1224B |                 | 975-1370  |     | 12   |      |         |     | 0.5  |       |    |          |
| R120008K1424B |                 | 1175-1565 |     | 14   |      |         |     | 0.6  |       |    |          |

24 VCC VDC



| REF.          | °K              | LM/U      | PCB | W/U | SMD  | LEDS/U | °   | A/U | CRI   | MM              |
|---------------|-----------------|-----------|-----|-----|------|--------|-----|-----|-------|-----------------|
| R028016A1524B | <br>3000K 6000K | 1175-1565 | ALU | 15  | 2835 | 90     | 120 | 0.7 | ≥80Ra | 280 x 16 x 0.8  |
| R085016A4524B |                 | 3510-4655 |     | 45  |      |        |     | 1.9 |       | 850 x 16 x 0.8  |
| R112016A6024B |                 | 4635-6180 |     | 60  |      |        |     | 2.5 |       | 1120 x 16 x 0.8 |



Vivimos en una época de exposición realizada en la que se hace hincapié en la imagen y la estética. Por lo tanto, para ser competitivos, es imprescindible mostrar los productos mejorando su presentación lo máximo posible.

**BOEL-TRONIC** desea ayudarles en ese cometido y por ello hemos desarrollado una gama completa de Tiras Rígidas LED para realzar la exposición específica de cada producto:

*We live in an age of enhanced display where the emphasis is on image and aesthetics. Therefore, to be competitive, it is imperative to showcase products by enhancing their presentation as much as possible.*

**BOEL-TRONIC** wants to help you in this task and we have developed a complete range of Rigid LED Strips to enhance the specific display of each product:

|                                      |   |   |  |
|--------------------------------------|---|---|--|
| <b>CÁRNICOS</b><br><b>MEAT</b>       | O |  | Color rosado ideal para expositores de carnes o embutidos no envasados<br><i>Pink color ideal for meat or sausage displays not packaged</i>                  |
| <b>PESCADOS</b><br><b>FISH</b>       | P |  | Color azulado que da frescor resaltando el brillo de ojos y escamas<br><i>Blue color that gives freshness highlighting the brightness of eyes and scales</i> |
| <b>VERDURAS</b><br><b>VEGETABLES</b> | Q |  | Color verde suave óptimo para frutas, verduras y hortalizas<br><i>Soft green color ideal for fruits, vegetables and greens</i>                               |
| <b>PANADERÍA</b><br><b>BAKERY</b>    | W |  | Color ámbar que destaca los distintos tonos de panes y bollería<br><i>Amber color that highlights the different tones of breads and pastries</i>             |
| <b>JOYERÍA</b><br><b>JEWELRY</b>     | Z |  | Color ultra-ámbar que realza el brillo de los productos dorados<br><i>Dark amber color that enhances the shine of golden products</i>                        |

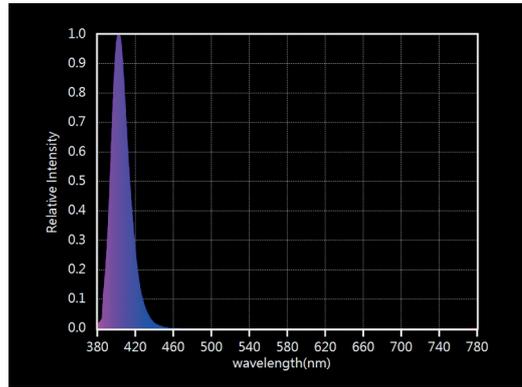
En la página siguiente disponen de una tabla con las opciones más usadas, aunque al ser un producto de fabricación propia podemos adaptarlo a sus necesidades.

*In the following page you have a table with the most used options, although being a product of our own manufacture we can adapt it to your needs.*

| REF.              | λ (nm) / °K                |   | IP | V                    | PCB             | SMD  | W/mt | LEDS/mt | <°  |  | MM                                       |                 |
|-------------------|----------------------------|---|----|----------------------|-----------------|------|------|---------|-----|---|--|-----------------|
| R1200yyC06xxO (*) | 610<br>to<br>625<br>nm     |    | 20 | 12/24<br>or<br>12/24 | FR4             | 2835 | 6    | 60      | 120 | 50<br>or<br>100   | 100 to 1200 x 5<br>or<br>100 to 1200 x 8 |                 |
| R1200yyK12xxO (*) |                            |   |    |                      |                 |      | 12   | 120     |     |   |  | 25<br>or<br>50  |
| R1200yyK14xxO (*) |                            |   |    |                      |                 |      | 14   |         |     |   |  |                 |
| R1200yyC06xxP (*) | 20000<br>to<br>30000<br>°K |    |    |                      |                 |      | 6    | 60      |     |   |  | 50<br>or<br>100 |
| R1200yyK12xxP (*) |                            |   |    |                      |                 |      | 12   | 120     |     |   |  | 25<br>or<br>50  |
| R1200yyK14xxP (*) |                            |   |    |                      |                 |      | 14   |         |     |   |  |                 |
| R1200yyC06xxQ (*) | 520<br>to<br>525<br>nm     |  |    |                      |                 |      | 6    | 60      |     |   |  | 50<br>or<br>100 |
| R1200yyK12xxQ (*) |                            |   |    |                      |                 |      | 12   | 120     |     |   |  | 25<br>or<br>50  |
| R1200yyK14xxQ (*) |                            |   |    |                      |                 |      | 14   |         |     |   |  |                 |
| R1200yyC06xxW (*) | 2400<br>to<br>2800<br>°K   |  |    |                      |                 |      | 6    | 60      |     |   |  | 50<br>or<br>100 |
| R1200yyK12xxW (*) |                            |   |    |                      |                 |      | 12   | 120     |     |   |  | 25<br>or<br>50  |
| R1200yyK14xxW (*) |                            |   |    |                      |                 |      | 14   |         |     |   |  |                 |
| R1200yyC06xxZ (*) | 1700<br>to<br>1800<br>°K   |  | 6  | 60                   | 50<br>or<br>100 |      |      |         |     |   |  |                 |
| R1200yyK12xxZ (*) |                            |   | 12 | 120                  | 25<br>or<br>50  |      |      |         |     |   |  |                 |
| R1200yyK14xxZ (*) |                            |   | 14 |                      |                 |      |      |         |     |   |  |                 |

(\*) 1200 = 0100 (100 mm largo) a 1200 (1200 mm largo) / 1200 = 0100 (100 mm length) to 1200 (1200 mm length)  
 yy = ancho 05 o 08 mm / width 05 or 08 mm  
 xx = 12 o 24 VCC / 12 or 24 VDC

consultar otros valores / consult other values



Disponibilidad de montar, en cualquiera de nuestras tiras rígidas de 60 LPM, emisores ultravioleta de onda larga:

- UV-C** Longitud de onda de 100 a 280 nm
- UV-B** Longitud de onda de 280 a 315 nm
- UV-A** Longitud de onda de 315 a 400 nm

Especialmente indicado en los siguientes entornos:

- **BIOMEDICINA:** Esterilización
- **SANIDAD:** Desinfección
- **MEDICINA FORENSE:** Detección de rastros (sangre, orina, semen o saliva, entre otros)
- **SEGURIDAD:** Detectores de billetes falsos
- **AGRICULTURA:** Aceleración del crecimiento en cultivos intensivos
- **CONSTRUCCIÓN:** Aplicando líquido fluorescente en estructuras, se detectan grietas o fisuras
- **PISCICULTURA:** Desinfección de acuarios
- **OCIO:** Reflexión de ciertos materiales debido a la fluorescencia (Luz negra)
- **OTROS:** Autenticación de antigüedades (método de examinación no destructivo)

Available to mount, on any of our 60 LPM rigid strips, long wave ultraviolet emitters:

- UV-C** Wavelength 100 to 280 nm
- UV-B** Wavelength 280 to 315 nm
- UV-A** Wavelength 315 to 400 nm

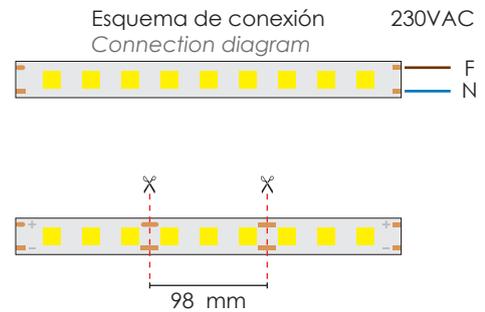
Epecially indicated in the following environments:

- **BIOMEDICINE:** Sterilization
- **HEALTH:** Disinfection
- **FORENSIC SCIENCE:** Detection of traces (blood, urine, semen or saliva, among others)
- **SECURITY:** Banknote detectors
- **AGRICULTURE:** Acceleration of growth in intensive crops
- **CONSTRUCTION:** Applying fluorescent liquid in structures, cracks or fissures are detected
- **FISH FARMING:** Disinfection of aquariums
- **LEISURE:** Reflection of certain materials due to fluorescence (Black light)
- **OTHERS:** Authentication of antiques (non-destructive examination method)



| REF.              | λ       | IP | V              | PCB | W/mt | SMD  | LEDS/mt | ∠°  | ✂               | MM                                      |
|-------------------|---------|----|----------------|-----|------|------|---------|-----|-----------------|---|
| RxxxxyyC05zzS (*) | 100-280 | 20 | 12<br>or<br>24 | FR4 | 4.8  | 2835 | 60      | 120 | 50<br>or<br>100 | 100 to 1200 x5<br>or<br>100 to 1200 x 8 |
| RxxxxyyC05zzT (*) | 280-315 |    |                |     |      |      |         |     |                 |   |
| RxxxxyyC05zzU (*) | 315-400 |    |                |     |      |      |         |     |                 |   |

(\*) xxxx = largo hasta 1200 mm / lenght up to 1200 mm  
yy = ancho 05 ó 08 mm / width 05 or 08 mm  
zz = 12 ó 24 VCC / 12 or 24 VDC



Tiras rígidas **directas a 230 VAC** con una longitud de 1176 mm cortable cada 98 mm para adaptarlo a perfiles de medida estándar de 300, 600 y 1200 mm.

Aunque por defecto se fabrican sin conectores, bajo pedido podemos suministrar las tiras con conectores en los extremos para interconectar varias tiras hasta una longitud máxima de 20 mts a 17W y 30 mts a 11W. Estos modelos requieren de perfil disipador de aluminio.

*Rigid strips **direct to 230 VAC** with a length of 1176 mm cuttable every 98 mm to adapt it to standard standard sizes of 300, 600 and 1200 mm.*

*Althoug by default they are manufactured without connectors, upon request we can supply the strips with connectors at the ends to interconnect several strips up to a maximum length of 20 mts for 17W and 30 mts for 11W*

*These models require an aluminium heatsink profile.*



| REF.          | °K   | Lm/mt | IP | PCB | W/mt | SMD  | LEDS/mt | <°  | A/mt | CRI   | ✂    | MM        |
|---------------|------|-------|----|-----|------|------|---------|-----|------|-------|------|-----------|
| R11761011230X | 2700 |       | 20 | FR4 | 11   | 2835 | 112     | 120 | 0.18 | ≥80Ra | 97,8 | 1176 X 10 |
| R11761011230C | 3000 |       |    |     |      |      |         |     |      |       |      |           |
| R11761011230N | 4200 |       |    |     |      |      |         |     |      |       |      |           |
| R11761011230F | 6500 |       |    |     |      |      |         |     |      |       |      |           |
| R11761017230X | 2700 |       |    |     | 17   |      |         |     | 0.09 |       |      |           |
| R11761017230C | 3000 |       |    |     |      |      |         |     |      |       |      |           |
| R11761017230N | 4200 |       |    |     |      |      |         |     |      |       |      |           |
| R11761017230F | 6500 |       |    |     |      |      |         |     |      |       |      |           |



MÓDULOS LED LINEALES  
LINEAR LED MODULES

12 VCC VDC

CONSULTAR OTRAS POTENCIAS, COLORES O TEMPERATURAS  
ASK FOR OTHER POWERS, COLORS OR TEMPERATURES

| REF.          | °K   | LM/u | PCB | W/u | SMD  | LEDS/u | <°  | A/u | CRI   | Max PCB | ✂  | MM       |
|---------------|------|------|-----|-----|------|--------|-----|-----|-------|---------|----|----------|
| M028012A1512X | 2700 | 1600 | ALU | 15  | 5730 | 30     | 120 | 1.2 | ≥80Ra | 4       | 28 | 280 x 12 |
| M028012A1512C | 3000 | 1640 |     |     |      |        |     |     |       |         |    |          |
| M028012A1512N | 4200 | 1720 |     |     |      |        |     |     |       |         |    |          |
| M028012A1512F | 6000 | 1830 |     |     |      |        |     |     |       |         |    |          |

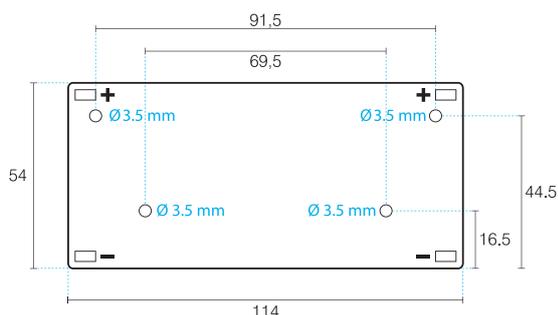


MÓDULOS LED LINEALES  
LINEAR LED MODULES

24 VCC VDC

CONSULTAR OTRAS POTENCIAS, COLORES O TEMPERATURAS  
ASK FOR OTHER POWERS, COLORS OR TEMPERATURES

| REF.          | °K   | LM/u | PCB | W/u | SMD  | LEDS/u | <°  | A/u  | CRI   | Max PCB | ✂  | MM       |
|---------------|------|------|-----|-----|------|--------|-----|------|-------|---------|----|----------|
| M028012A1424X | 2700 | 1600 | ALU | 14  | 5730 | 28     | 120 | 0.58 | ≥80Ra | 4       | 70 | 280 x 12 |
| M028012A1424C | 3000 | 1650 |     |     |      |        |     |      |       |         |    |          |
| M028012A1424N | 4200 | 1700 |     |     |      |        |     |      |       |         |    |          |
| M028012A1424F | 6000 | 1800 |     |     |      |        |     |      |       |         |    |          |

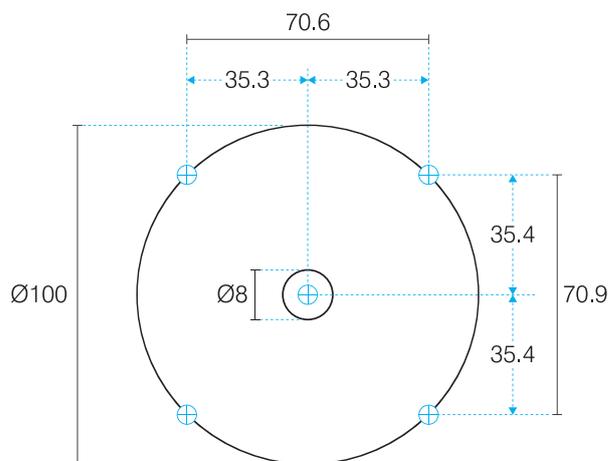


MÓD. LED RECTANGULAR  
RECTANGULAR LED MOD.

24 VCC VDC

CONSULTAR OTRAS POTENCIAS, COLORES O TEMPERATURAS  
ASK FOR OTHER POWERS, COLORS OR TEMPERATURES

| REF.          | °K   | LM/u | PCB | W/u | SMD  | LEDS/u | <°  | A/u  | CRI   | Max PCB | ✂ | MM       |
|---------------|------|------|-----|-----|------|--------|-----|------|-------|---------|---|----------|
| M011454A3524X | 2700 | 3990 | ALU | 35  | 5730 | 70     | 120 | 1.46 | ≥80Ra | 6       | - | 114 x 54 |
| M011454A3524C | 3000 | 4100 |     |     |      |        |     |      |       |         |   |          |
| M011454A3524N | 4200 | 4340 |     |     |      |        |     |      |       |         |   |          |
| M011454A3524F | 6000 | 4690 |     |     |      |        |     |      |       |         |   |          |



MÓDULOS LED CIRCULARES  
ROUND LED MODULES

12 VCC VDC

CONSULTAR OTRAS POTENCIAS, COLORES O TEMPERATURAS  
ASK FOR OTHER POWERS, COLORS OR TEMPERATURES

| REF.        | °K   | LM/u | PCB | W/u | SMD  | LEDS/u | <°  | A/u | CRI   | Max PCB | ✂ | MM   |
|-------------|------|------|-----|-----|------|--------|-----|-----|-------|---------|---|------|
| M0100A2412X | 2700 | 2740 | ALU | 24  | 5730 | 48     | 120 | 2   | ≥80Ra | -       | - | Ø100 |
| M0100A2412C | 3000 | 2800 |     |     |      |        |     |     |       |         |   |      |
| M0100A2412N | 4200 | 2980 |     |     |      |        |     |     |       |         |   |      |
| M0100A2412F | 6000 | 3220 |     |     |      |        |     |     |       |         |   |      |

MÓDULOS LED CIRCULARES  
ROUND LED MODULES

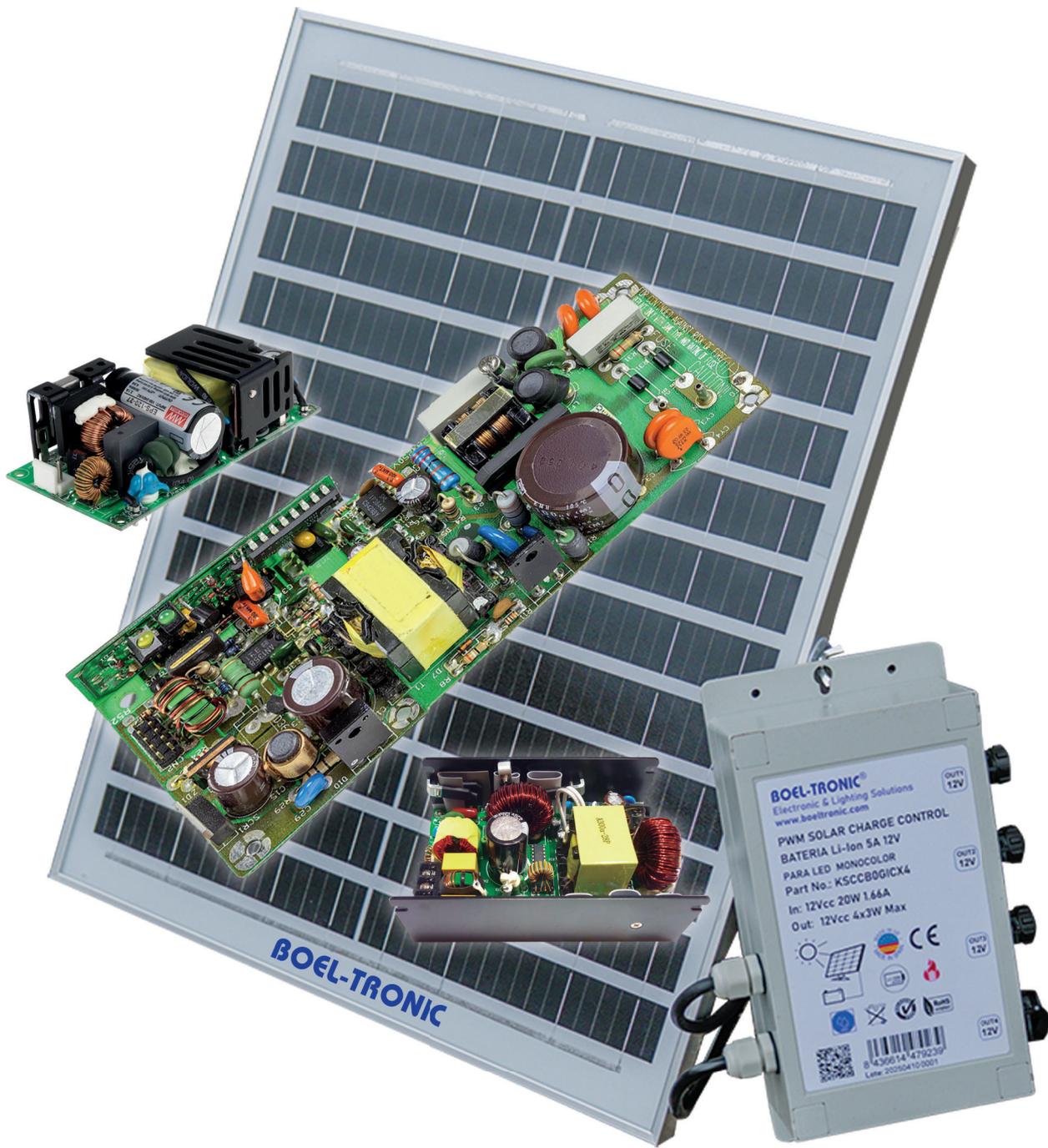
24 VCC VDC

CONSULTAR OTRAS POTENCIAS, COLORES O TEMPERATURAS  
ASK FOR OTHER POWERS, COLORS OR TEMPERATURES

| REF.        | °K   | LM/u | PCB | W/u | SMD  | LEDS/u | <°  | A/u  | CRI   | Max PCB | ✂ | MM   |
|-------------|------|------|-----|-----|------|--------|-----|------|-------|---------|---|------|
| M0100A2824X | 2700 | 3190 | ALU | 28  | 5730 | 56     | 120 | 1.17 | ≥80Ra | -       | - | Ø100 |
| M0100A2824C | 3000 | 3250 |     |     |      |        |     |      |       |         |   |      |
| M0100A2824N | 4200 | 3470 |     |     |      |        |     |      |       |         |   |      |
| M0100A2824F | 6000 | 3750 |     |     |      |        |     |      |       |         |   |      |

# FUENTES Y BATERIAS

## POWER SUPPLIES & BATTERIES



# FUENTES DE ALIMENTACIÓN DE VOLTAJE CONSTANTE

## CONSTANT VOLTAGE POWER SUPPLIES



Disponemos de la más amplia gama de fuentes de alimentación, diseñadas para adaptarse a todo tipo de aplicaciones y proyectos.

Trabajamos con todos los modelos disponibles en el mercado. Sea cual sea tu necesidad —proyectos electrónicos, automatización, telecomunicaciones o energía renovable— tenemos la solución ideal en potencia, voltaje y formato.

Nuestro equipo te asesora para garantizar el mejor rendimiento y compatibilidad en cada aplicación.

*We have the widest range of power supplies, designed to adapt to all types of applications and projects. We work with all models available on the market. Whatever your need—electronic projects, automation, telecommunications, or renewable energy—we have the ideal solution in terms of power, voltage, and format.*

*Our team will advise you to ensure the best performance and compatibility for each application.*



Caja REJILLA / GRID Box



PARED / WALL



SUPERSLIM  
IP20



PLÁSTICO / PLASTIC  
IP20



PLÁSTICO / PLASTIC  
IP42



PLÁSTICO / PLASTIC  
IP44



PLÁSTICO / PLASTIC  
IP67



METÁLICA / METALLIC  
IP67



METÁLICA / METALLIC DALI  
IP67

Trabajamos con los principales fabricantes de fuentes de alimentación. Consúltenos.  
*We work with the main power supply manufacturers. Consult us.*



# FUENTES DE ALIMENTACIÓN DE VOLTAJE CONSTANTE

CONSTANT VOLTAGE POWER SUPPLIES



## ACUSB2ABOX1S ACUSB2ABOX2S



### FA COMPACTA 5 VCC 1 x USB FA COMPACTA 5 VCC 2 x USB

- Color: NEGRO
- Entrada: 230 VAC
- Salida: 5 VCC (2 A máx.)
- Conector: 1 ó 2 USB-A (F)
- Medidas: FAC 46 x 45 x 21 mm  
USB 24 x 19 x 23 mm  
Agujero montaje USB 22 x 16 mm
- Ideal para su ubicación en luminarias, cabezales, muebles, expositores, etc.

### COMPACT PS 5 VDC 1 x USB COMPACT PS 5 VDC 2 x USB

- Color: BLACK
- Input: 230 VAC
- Output: 5 VDC (2 A max.)
- Connector: 1 or 2 USB-A (F)
- Measures: CPS 46 x 45 x 21 mm  
USB 24 x 19 x 23 mm  
USB Mounting hole 22 x 16 mm
- Ideal for your location in lights, headboards, furniture, display, etc.

## PSUSBC5V3AB



### FA COMPACTA 5 VCC 1 x USB C

- Color: BLANCO
- Entrada: 100-240 VAC
- Salida: 5 VCC (2 A máx.)
- Conector: 1 USB-C (F)
- Medidas: 37 x 45 x 24 mm
- Peso: 70gr.
- Incorpora 1 m cable USB-C / USB-C

### COMPACT PS 5 VDC 1 x USB C

- Color: WHITE
- Input: 100-240 VAC
- Output: 5 VDC (3 A max.)
- Connector: 1 USB-C (F)
- Dimensions: 37 x 45 x 24 mm
- Weight: 70 g
- Includes 1 m USB-C / USB-C cable

## YCZX-2401000A



### FA IP20 24W 24 VCC

- Color: NEGRO
- Entrada: 100-240 VAC
- Salida: 24 VCC (1 A máx.)
- Conector: JACK-M 5.5x2.1
- Potencia: 24W max
- Medidas: 61 x 40 x 27 mm
- Peso: 90gr.
- Longitud cable: 120cm

### IP20 PS 24W 24 VDC

- Color: BLACK
- Input: 100-240 VAC
- Output: 24 VDC (1 A max.)
- Connector: JACK-M 5.5x2.1
- Power: 24W max
- Dimensions: 61 x 40 x 27 mm
- Weight: 90 g
- Cable length: 120cm

## ST-8012-F44



### FA IP44 80W 12 VCC

- Color: BLANCO
- Entrada: 100-240 VAC
- Salida: 12 VCC (7 A máx.)
- Potencia: 84W max
- Medidas: 195 x 55 x 18 mm
- Aislamiento de clase II
- IP44
- Protección: Cortocircuito/Sobrecorriente/Sobretensión/Sobrettemperatura
- Ideal ambientes húmedos
- 5 años de garantía

### IP44 PS 80W 12 VDC

- Color: WHITE
- Input: 100-240 VAC
- Output: 12 VDC (7 A max.)
- Power: 84W max
- Dimensions: 195 x 55 x 18 mm
- Class II insulation
- IP44
- Protection: Short circuit/Overcurrent/Overvoltage/Overtemperature
- Ideal for humid environments
- 5-year warranty

## FAW12-24 / FAW20-24



### FA IP67 24 VCC

- Color: NEGRO
- Entrada: 100-240 VAC
- Salida: 24 VCC (0.5A / 1A máx.)
- Potencia: 12W - 20W max
- Medidas: 130x25x21/140x30x22 mm
- Aislamiento de clase II
- IP67
- Protección: Cortocircuito/Sobretensión
- Ideal ambientes húmedos

### IP67 PS 24 VDC

- Color: BLACK
- Input: 100-240 VAC
- Output: 24 VDC (0.5A / 1A max.)
- Power: 12W - 20W max
- Dimensions: 130x25x21/140x30x22 mm
- Class II insulation
- IP67
- Protection: Short circuit/Overvoltage
- Ideal for humid environments

# CARGADORES DE BATERÍAS Li-Ion

## Li-Ion BATTERY CHARGERS



Los cargadores de baterías Li-Ion están diseñados específicamente para cargar de forma segura las baterías de iones de litio, ampliamente utilizadas en dispositivos electrónicos.

A diferencia de otras tecnologías, las baterías Li-Ion requieren un control preciso de voltaje y corriente durante el proceso de carga para evitar sobrecalentamiento, degradación o riesgo de incendio.

*Li-ion battery chargers are specifically designed to safely charge lithium-ion batteries, which are widely used in electronic devices.*

*Unlike other technologies, Li-ion batteries require precise voltage and current control during the charging process to avoid overheating, degradation, or fire hazards.*

### ZYD12610

#### CARGADOR LI-ION

#### LI-ION CHARGER



- Color: NEGRO
- EURO-PLUG - Tipo C
- Entrada: 100-240 VAC
- Salida: 12.6 VCC (1 A máx.)
- Conector: JACK-M 5.5x2.1
- Medidas: 75 x 28 x 45 mm
- Peso: 70gr.
- Longitud cable: 90cm
- Incorpora led indicador de carga

- Color: BLACK
- EURO-PLUG - C Type
- Input: 100-240 VAC
- Output: 12.6 VDC (1 A max.)
- Connector: JACK-M 5.5x2.1
- Dimensions: 75 x 28 x 45 mm
- Weight: 70 g
- Cable length: 90cm
- Includes LED charge indicator

### ZYD12610UK

#### CARGADOR LI-ION - Clavija Tipo G

#### LI-ION CHARGER - Type G plug



- Color: NEGRO
- UK-PLUG - Tipo G
- Entrada: 100-240 VAC
- Salida: 12.6 VCC (1 A máx.)
- Conector: JACK-M 5.5x2.1
- Medidas: 75 x 28 x 45 mm
- Peso: 85gr.
- Longitud cable: 90cm
- Incorpora led indicador de carga

- Color: BLACK
- UK-PLUG - G Type
- Input: 100-240 VAC
- Output: 12.6 VDC (1 A max.)
- Connector: JACK-M 5.5x2.1
- Dimensions: 75 x 28 x 45 mm
- Weight: 85g
- Cable length: 90cm
- Includes LED charge indicator

### ZYD12630

#### CARGADOR LI-ION

#### LI-ION CHARGER



- Color: NEGRO
- EURO-PLUG - Tipo C
- Entrada: 100-240 VAC
- Salida: 12.6 VCC (3 A máx.)
- Conector: JACK-M 5.5x2.1
- Medidas: 114 x 55 x 33 mm
- Peso: 275gr.
- Longitud cables: 90cm
- Incorpora led indicador de carga

- Color: BLACK
- EURO PLUG - C Type
- Input: 100-240 VAC
- Output: 12.6 VDC (3 A max.)
- Connector: JACK-M 5.5x2.1
- Dimensions: 114 x 55 x 33 mm
- Weight: 275g
- Cable length: 90cm
- Includes LED charge indicator

### ZYD12630UK

#### CARGADOR LI-ION - Clavija Tipo G

#### LI-ION CHARGER - Type G plug



- Color: NEGRO
- UK-PLUG - Tipo G
- Entrada: 100-240 VAC
- Salida: 12.6 VCC (3 A máx.)
- Conector: JACK-M 5.5x2.1
- Medidas: 114 x 55 x 33 mm
- Peso: 330gr.
- Longitud cable: 90+120cm
- Incorpora led indicador de carga
- Incorpora fusibles de protección

- Color: BLACK
- UK-PLUG - G Type
- Input: 100-240 VAC
- Output: 12.6 VDC (3 A max.)
- Connector: JACK-M 5.5x2.1
- Dimensions: 114 x 55 x 33 mm
- Weight: 330g
- Cable length: 90+120cm
- Includes LED charge indicator
- Includes protection fuse



**Ideal para espacios SIN acceso a toma eléctrica**

Es la solución perfecta para iluminar cajones de muebles de baño, interiores de armarios o la parte inferior de la cama, aportando comodidad, estilo y funcionalidad. Diferentes opciones de conexionado.

**Ideal for spaces WITHOUT electrical acces**

It's the perfect solution for illuminating bathroom cabinet drawers, closet interiors, or the underside of a bed, providing comfort, style, and functionality. Different connection options.

**KB1126331N2XH**



- Batería Li-Ion 12V 2500mA
  - Dimensiones: 137 x 63 x 31 mm
  - Peso: 225gr
  - Color: Negro
  - Conector Carga: JACK-F 5.5 x 2.1
  - Vin Carga: 12.6VDC
  - Conector salida: 2 x JST XH
  - VOut: 12VCC
- Battery Li-Ion 12V 2500mA
  - Dimensions: 137 x 63 x 31 mm
  - Weight: 225gr
  - Color: Black
  - Charging connector: JACK-F 5.5 x 2.1
  - Vin Charge: 12.6VDC
  - Output connector: 2 x JST XH
  - VOut: 12VDC

**KB1126331N3XH**



- Batería Li-Ion 12V 2500mA
  - Dimensiones: 137 x 63 x 31 mm
  - Peso: 225gr
  - Color: Negro
  - Conector Carga: JACK-F 5.5 x 2.1
  - Vin Carga: 12.6VDC
  - Conector salida: 3 x JST XH
  - VOut: 12VCC
- Battery Li-Ion 12V 2500mA
  - Dimensions: 137 x 63 x 31 mm
  - Weight: 225gr
  - Color: Black
  - Charging connector: JACK-F 5.5 x 2.1
  - Vin Charge: 12.6VDC
  - Output connector: 3 x JST XH
  - VOut: 12VDC

**KB1126331NJ25**



- Batería Li-Ion 12V 2500mA
  - Dimensiones: 137 x 63 x 31 mm
  - Peso: 225gr
  - Color: Negro
  - Conector Carga: JACK-F 5.5 x 2.1
  - Vin Carga: 12.6VDC
  - Conector salida: JACK M 5.5 x 2.1
  - VOut: 12VCC
- Battery Li-Ion 12V 2500mA
  - Dimensions: 137 x 63 x 31 mm
  - Weight: 225gr
  - Color: Black
  - Charging connector: JACK-F 5.5 x 2.1
  - Vin Charge: 12.6VDC
  - Output connector: JACK M-5.5 x 2.1
  - VOut: 12VDC

**KB1126331NJ17**



- Batería Li-Ion 12V 2500mA
  - Dimensiones: 137 x 63 x 31 mm
  - Peso: 225gr
  - Color: Negro
  - Conector Carga: JACK-F 5.5 x 2.1
  - Vin Carga: 12.6VDC
  - Conector salida: JACK-F 5.5 x 1.7
  - VOut: 12VCC
- Battery Li-Ion 12V 2500mA
  - Dimensions: 137 x 63 x 31 mm
  - Weight: 225gr
  - Color: Black
  - Charging connector: JACK-F 5.5 x 2.1
  - Vin Charge: 12.6VDC
  - Output connector: JACK-F 5.5 x 1.7
  - VOut: 12VDC

**SOPKB1126331N**



- Soporte PLA para fijación
  - Dimensiones: 138 x 43 x 10 mm
  - Peso: 20 gr
- PLA support for fixing
  - Dimensions: 138 x 43 x 10 mm
  - Weight: 20 g



**Ideal para espacios SIN acceso a toma eléctrica**

Este kit está diseñado especialmente para parasoles en terrazas donde no se puede acceder a corriente eléctrica. Fácil de instalar en el mástil y los radios del parasol.

**Ideal for spaces WITHOUT electrical acces**

This kit is specially designed for sunshades on terraces where electrical power is not available. Easy to install on the pole and the parasol spokes.

**KB1528152N45A**



- Batería Li-Ion 12V 5000mA
- Dimensiones: 179 x 81 x 52 mm
- Peso: 470gr
- Color: Negro
- Conector Carga: JACK-F 5.5x2.1
- Vin Carga: 12.6VDC
- Conector salida: 4 x JACK-M 5.5x2.1
- VOut: 12VCC
- Interruptor On/Off
- Battery Li-Ion 12V 5000mA
- Dimensions: 179 x 81 x 52 mm
- Weight: 470gr
- Colour: Black
- Charge Connector: JACK-F 5.5x2.1
- Vin Charge: 12.6VDC
- Output Connector: 4 x JACK-M 5.5x2.1
- VOut: 12VDC
- On/Off Switch

**KB1528152N4RF**



- Batería Li-Ion 12V 5000mA
- Dimensiones: 179 x 81 x 52 mm
- Peso: 470gr
- Color: Negro
- Conector Carga: JACK-F 5.5x2.1
- Vin Carga: 12.6VDC
- Conector salida: 4 x JACK-M 5.5x2.1
- VOut: 12VCC
- Controlador LED PWM (App+Mando)
- Battery Li-Ion 12V 5000mA
- Dimensions: 179 x 81 x 52 mm
- Weight: 470gr
- Colour: Black
- Charge Connector: JACK-F 5.5x2.1
- Vin Charge: 12.6VDC
- Output Connector: 4 x JACK-M 5.5x2.1
- VOut: 12VDC
- PWM LED Controller (App+Control)

**APP + MANDO**



**CONTROLADOR LED PWM**

- Compatible con control por aplicación y control remoto 2.4G.
- Con temporizador/programador de encendido/apagado.
- Compatible con actualización de firmware OTA.

**PWM LED REMOTE CONTROL**

- Compatible with app control and 2.4G remote control.
- With on/off timer/programmer.
- Supports OTA firmware update

**AFMUC775650I**



**ACCESORIO**

- Soporte INOX para fijación a mástil
- Cerradura + 2 llaves
- Dimensiones: 76 x 50 x 48 mm
- Peso: 80 gr

**ACCESSORY**

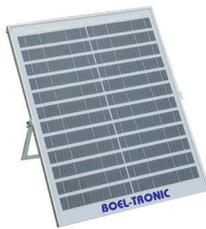
- INOX bracket for mast mounting
- Lock + 2 keys
- Dimensions: 76 x 50 x 48 mm
- Weight: 80 g



## PSR20W12V

### PANEL SOLAR

### SOLAR PANEL



- Potencia Panel Solar (W): 20W
- Voltaje Out (V): 12VDC
- Dimensiones: 450 x 350 x 16 mm
- Peso: 1.25Kg

- Solar Panel Power (W): 20W
- Output Voltage (V): 12VDC
- Dimensions: 450 x 350 x 16 mm
- Weight: 1.25 kg

### KIT CONTROL DE CARGA

### LOAD CONTROL KIT



- Batería de Li-Ion 12V 5A
- Dimensiones: 208x106x56 mm
- Peso: 515g
- Color: Negro/Gris
- Conector Carga a panel solar
- Vin Carga: 12VDC
- Conector salida: IP67
- VOut: 12VDC
- Potencia Máx (W): 20W Máx.

- 12V 5A Li-Ion battery
- Dimensions: 208x106x56 mm
- Weight: 515g
- Colour: Black/Grey
- Solar panel charging connector
- Charging voltage: 12VDC
- Output connector: IP67
- VOut: 12VDC
- Maximum power (W): 20W Max.

| CÓDIGO<br>CODE | SAL.<br>OUT | VCC<br>VDC | W          | DESCRIPCIÓN<br>DESCRIPTION   |
|----------------|-------------|------------|------------|--|
| KSCCB0GICX2    | 2           | 12         | 2x3<br>Max | KIT LED BATERIA MONO. INT. CREPUSCULAR<br>MONO BATTERY LED KIT TWILIGHT SENSOR.  |
| KSCCB0GICX4    | 2           |            |            |  |
| KSCCB0NICX2    | 4           |            | 4x3<br>Max |  |
| KSCCB0NICX4    | 4           |            |            |  |
| KSCCB0GRFX2    | 2           |            | 2x3<br>Max | KIT LED BATERIA MONO. RF+MANDO+APP<br>MONO BATTERY LED KIT RF+REMOTE CONTROL+APP |
| KSCCB0GRFX4    | 2           |            |            |  |
| KSCCB0NRFX2    | 4           | 4x3<br>Max |            |  |
| KSCCB0NRFX4    | 4           |            |            |  |



# KIT BATERÍA PARA PARASOLES Y MOBILIARIO

## BATTERY KIT FOR SUNSHADES AND FURNITURE

# BAT



Kit de batería para iluminación led, diseñado para ser instalado en parasols, sombrillas de terrazas, u otro mobiliario, donde no haya acceso a una fuente de alimentación eléctrica cercana.

### Características:

- Conexión de 2 ó 4 barras led de 50cm
- Batería Li-Ion Recargable con una duración de 5 horas de uso continuo
- Estanqueidad IP65: Dado que están destinadas a su uso en exteriores, están diseñadas para resistir las condiciones climáticas, como la humedad y las variaciones de temperatura

Battery kit for led lighting, designed to be installed in parasols, terrace umbrellas, or other furniture, where there is no access to a nearby power supply.

### Features:

- Connection of 2 or 4 led bars of 50cm
- Rechargeable Li-Ion battery with a duration of 5 hours of continuous use
- IP65 Waterproof: Since they are intended for outdoor use, they are designed to withstand weather conditions such as humidity and temperature variations

| CÓDIGO<br>CODE | SAL.<br>OUT | VCC<br>VDC | W          | DESCRIPCIÓN<br>DESCRIPTION   |   |
|----------------|-------------|------------|------------|--|---|
| KPB0GX2        | ■           | 2          | 2x3<br>Max | KIT LED BATERIA, OUT 2 x 12VCC MONOCOLOR<br>LED KIT BATTERY, OUT 2 x 12VDC MONOCOLO  |    |
| KPB0NX2        | ■           |            |            |  |   |
| KPB0GX4        | ■           | 4          | 4x3<br>Max | KIT LED BATERIA, OUT 4 x 12VCC MONOCOLOR<br>LED KIT BATTERY, OUT 4 x 12VDC MONOCOLOR |   |
| KPB0NX4        | ■           |            |            |  |   |
| KPB0GT2        | ■           | 2          | 2x3<br>Max | KIT LED BATERIA, OUT 2 x 12VCC RGB<br>LED KIT BATTERY, OUT 2 x 12VDC RGB             | <br>  |
| KPB0NT2        | ■           |            |            |  |   |
| KPB0GT4        | ■           | 4          | 4x3<br>Max | KIT LED BATERIA, OUT 4 x 12VCC RGB<br>LED KIT BATTERY, OUT 4 x 12VDC RGB             |   |
| KPB0NT4        | ■           |            |            |  |   |
| KPB0GS2        | ■           | 2          | 2x3<br>Max | KIT LED BATERIA, OUT 2 x 12VCC CCT<br>LED KIT BATTERY, OUT 2 x 12VDC CCT             | <br><br> |
| KPB0NS2        | ■           |            |            |  |   |
| KPB0GS4        | ■           | 4          | 4x3<br>Max | KIT LED BATERIA, OUT 4 x 12VCC CCT<br>LED KIT BATTERY, OUT 4 x 12VDC CCT             |   |
| KPB0NS4        | ■           |            |            |  |   |



Kit para iluminación led, diseñado para ser instalado en parasoles, sombrillas de terrazas u otro mobiliario, directo a red 230Vac.

**Características:**

- Conexión de 2 ó 4 barras led de 50cm
- Estanqueidad IP54
- Opciones: audio bluetooth, cargador usb, repetidor wifi

Kit for led lighting, designed to be installed in parasols, sunshades, terrace umbrellas or other furniture, direct to 230Vac mains.

**Features:**

- Connection of 2 or 4 led bars of 50cm
- IP54 Waterproof
- Options: audio bluetooth, usb charger, wifi repeater

| CÓDIGO<br>CODE | SAL.<br>OUT | VAC | W | DESCRIPCIÓN<br>DESCRIPTION |
|----------------|-------------|-----|---|----------------------------|
|----------------|-------------|-----|---|----------------------------|

Proporciona una iluminación ambiental y decorativa con luces LED  
Provides ambient and decorative illumination with LED lights

|         |  |   |            |            |   |
|---------|--|---|------------|------------|---|
| KPR2GX2 |  | 2 | 230<br>VAC | 2x6<br>Max | KIT LED IN 230VAC OUT 2x12VCC 12W MAX<br><b>MONOCOLOR</b> |
| KPR2NX2 |  |   |            |            |   |
| KPR2GX4 |  | 4 | 230<br>VAC | 4x3<br>Max | KIT LED IN 230VAC OUT 4x12VCC 12W MAX<br><b>MONOCOLOR</b> |
| KPR2NX4 |  |   |            |            |   |



Mediante un controlador RGB interno, ajustamos el color y la intensidad de la luz para adaptarse a diferentes ambientes. Incluye control remoto para seleccionar colores y/o efectos

Using a built-in internal RGB controller, it allows us to adjust the color and intensity of the light to adapt to different environments. Includes remote control to select colors and/or effects

|         |  |   |            |            |   |
|---------|--|---|------------|------------|---|
| KPR2GT2 |  | 2 | 230<br>VAC | 2x6<br>Max | KIT LED IN 230VAC OUT 2x12VCC 12W MAX<br><b>RGB</b> |
| KPR2NT2 |  |   |            |            |   |
| KPR2GT4 |  | 4 | 230<br>VAC | 4x3<br>Max | KIT LED IN 230VAC OUT 4x12VCC 12W MAX<br><b>RGB</b> |
| KPR2NT4 |  |   |            |            |   |



| CÓDIGO<br>CODE | SAL.<br>OUT | VAC | W | DESCRIPCIÓN<br>DESCRIPTION |
|----------------|-------------|-----|---|----------------------------|
|----------------|-------------|-----|---|----------------------------|

Estos equipos incorporan un controlador CCT, que nos permite ajustar la temperatura de color entre cálida, neutra o fría.  
**¡¡Cambia de ambiente apretando un pulsador!!**

*These devices incorporate a CCT controller, which allows us to adjust the color temperature between warm, neutral or cold.  
**Change the environment by pressing a button!!***

|         |  |   |            |   |   |              |
|---------|--|---|------------|---|---|--------------|
| KPR2GS2 |  | 2 | 230<br>VAC | 2x6<br>Max  | KIT LED IN 230VAC OUT 2x12VCC 12W MAX<br><b>CCT</b> | <br><br><br> |
| KPR2NS2 |  |   |            |   |   |              |
| KPR2GS4 |  | 4 | 4x3<br>Max | KIT LED IN 230VAC OUT 4x12VCC 12W MAX<br><b>CCT</b> |   |              |
| KPR2NS4 |  |   |            |   |   |              |

Equipados con audio Bluetooth, permiten conectar tu dispositivo móvil, como un teléfono o una tableta, para reproducir música de forma inalámbrica.  
 Ideales para fiestas y/o cenas al aire libre, relajación nocturna y cualquier ocasión en la que desees combinar iluminación y música.

*Equipped with Bluetooth audio, they allow you to connect your mobile device, such as a phone or tablet, to play music wirelessly.  
 Ideal for parties and/or outdoor dining, nighttime relaxation and any occasion where you want to combine lighting and music.*

|         |  |   |            |   |   |      |
|---------|--|---|------------|---|---|------|
| KPR2GB2 |  | 2 | 230<br>VAC | 2x6<br>Max  | KIT LED IN 230VAC OUT 2x12VCC 12W MAX<br><b>BLUETOOTH</b> | <br> |
| KPR2NB2 |  |   |            |   |   |      |
| KPR2GB4 |  | 4 | 4x3<br>Max | KIT LED IN 230VAC OUT 4x12VCC 12W MAX<br><b>BLUETOOTH</b> |   |      |
| KPR2NB4 |  |   |            |   |   |      |

Incluye puertos USB tipo A y C que permiten cargar dispositivos como teléfonos móviles, tabletas y otros dispositivos electrónicos directamente desde tu espacio al aire libre **(cables USB NO incluidos)**

*Includes USB Type A and C ports that allow you to charge devices such as cell phones, tablets and other electronic devices directly from your outdoor space **(USB cables NOT included)***

|         |  |   |            |  |  |          |
|---------|--|---|------------|--|--|----------|
| KPR2GU2 |  | 2 | 230<br>VAC | 2x6<br>Max   | KIT LED IN 230VAC OUT 2x12VCC 12W MAX<br><b>2 USB: A + C</b> | <br><br> |
| KPR2NU2 |  |   |            |  |  |          |
| KPR2GU4 |  | 4 | 4x3<br>Max | KIT LED IN 230VAC OUT 4x12VCC 12W MAX<br><b>2 USB: A + C</b> |  |          |
| KPR2NU4 |  |   |            |  |  |          |

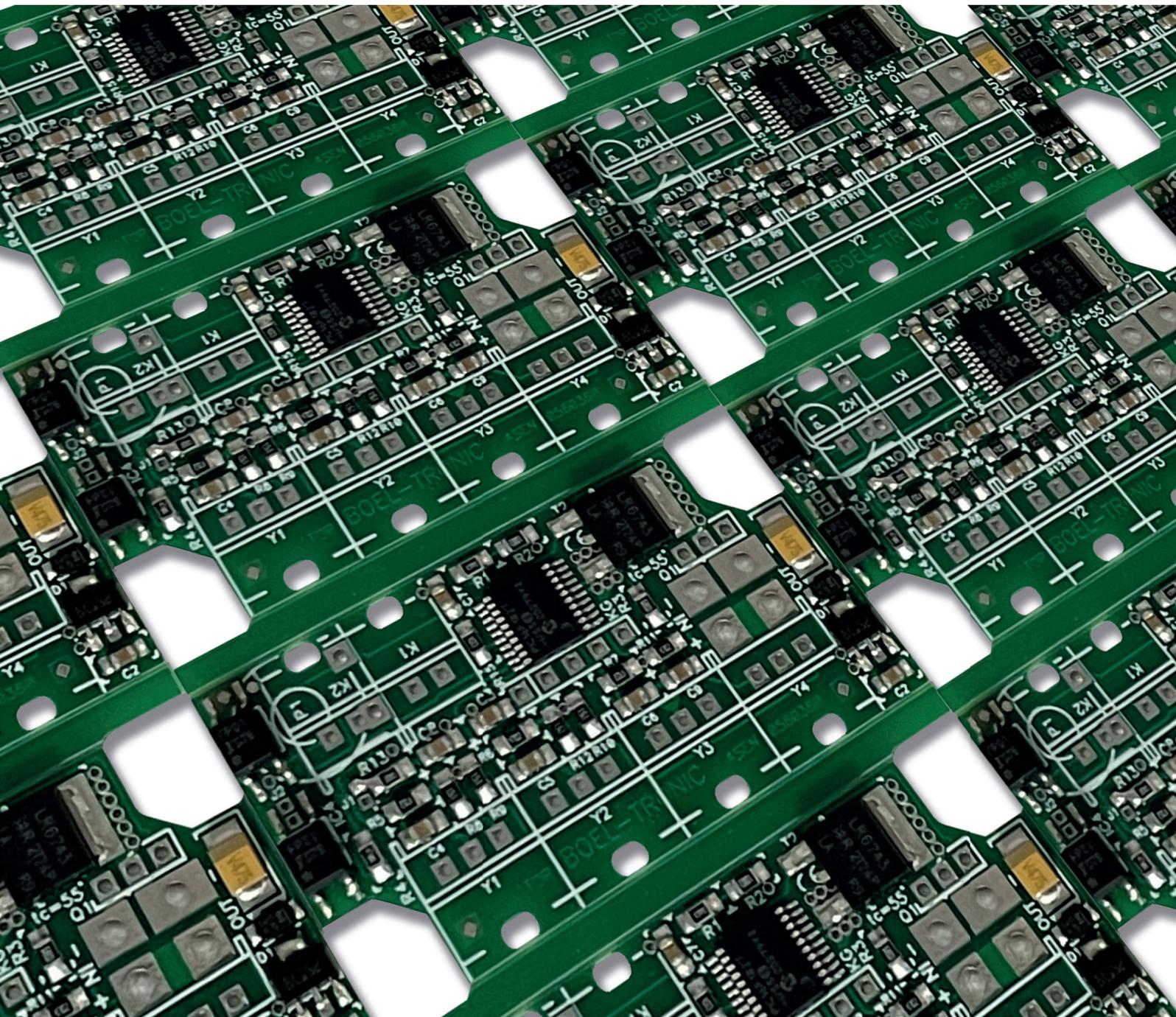
Incorpora un repetidor WiFi, que amplía la cobertura en áreas exteriores, lo que permite una mejor conectividad para dispositivos móviles y otros dispositivos inalámbricos. Ideal para ofrecer a los clientes y/o para uso propio y mejorar la cobertura de los datáfonos o tpv en las terrazas.

*This model incorporates a WiFi repeater, which extends coverage in outdoor areas, allowing better connectivity for mobile devices and other wireless devices. Ideal to offer to customers and/or for own use and improve the coverage of dataphones or tpv in the terraces.*

|         |  |   |            |  |  |      |
|---------|--|---|------------|--|--|------|
| KPR2GW2 |  | 2 | 230<br>VAC | 2x6<br>Max   | KIT LED IN 230VAC OUT 2x12VCC 12W MAX<br><b>REPETIDOR WIFI / WIFI REPEATER</b> | <br> |
| KPR2NW2 |  |   |            |  |  |      |
| KPR2GW4 |  | 4 | 4x3<br>Max | KIT LED IN 230VAC OUT 4x12VCC 12W MAX<br><b>REPETIDOR WIFI / WIFI REPEATER</b> |  |      |
| KPR2NW4 |  |   |            |  |  |      |

# ELECTRÓNICA PARA LEDS

## ELECTRONICS FOR LEDS



### 2901S



#### VARIADOR TÁCTIL PARA LED MONOCOLOR

- Regulación lineal táctil
- Salidas: 1 canal
- Voltaje: 12/24 VCC
- Intensidad: 10 A máx.
- Medidas: 40 x 10 x 6 mm

#### DIMMER TOUCH FOR SINGLE-COLOR LED

- *Touch lineal regulation*
- *Output: 1 channel*
- *Voltage: 12/24 VDC*
- *Intensity: 10 A max.*
- *Measures: 40 x 10 x 6 mm*

### 2901H



#### INTERRUPTOR para LED's MONOCOLOR

- Interruptor SENSOR MANO
- Enciende/Apaga al pasar la mano
- Salidas: 1 canal
- Voltaje: 12/24 VCC
- Intensidad: 6 A máx.
- Medidas: 55 x 10 x 6 mm

#### SWITCH FOR SINGLE-COLOR LED

- *ON/OFF hand switch*
- *Turns ON/OFF when you pass your hand in front*
- *Output: 1 channel*
- *Voltage: 12/24 VDC*
- *Intensity: 6 A max.*
- *Measures: 55 x 10 x 6 mm*

### 2901D



#### INTERRUPTOR para LED's MONOCOLOR

- Interruptor SENSOR PUERTA
- Enciende/Apaga al abrir/cerrar
- Salidas: 1 canal
- Voltaje: 12/24 VCC
- Intensidad: 6 A máx.
- Medidas: 55 x 10 x 6 mm

#### SWITCH FOR SINGLE-COLOR LED

- *ON/OFF door switch*
- *Turns ON/OFF when open/closed the door*
- *Output: 1 channel*
- *Voltage: 12/24 VDC*
- *Intensity: 6 A max.*
- *Measures: 55 x 10 x 6 mm*

### 2901PIR



#### INTERRUPTOR/SENSOR DE MOVIMIENTO

- Interruptor ON/OFF
- Al detectar movimiento, conecta 1min. sin movimiento, se apaga
- Salidas: 1 canal
- Voltaje: 12/24 VCC
- Intensidad: 8 A máx.
- Medidas: 40 x 10 x 6 mm

#### MOTION SENSOR FOR SINGLE-COLOR LED

- *MOTION SENSOR switch ON/OFF*
- *When it detects movement, it turns on. After a minute WITHOUT movement, it goes out*
- *Output: 1 channel*
- *Voltage: 12/24 VDC*
- *Intensity: 8 A max.*
- *Measures: 40 x 10 x 6 mm*

### 2901M



#### TOUCH SENSOR PARA ESPEJO

- Interruptor TACTIL para ESPEJO.
- Dimmer
- Salidas: 1 canal
- Voltaje: 12/24 VCC
- Intensidad: 4 A máx.
- Medidas: 26 x 28 x 7 mm
- Espesor del espejo: ≤ 5 mm

#### TOUCH SENSOR FOR MIRROR FOR SINGLE-COLOR LED

- *ON/OFF switch MIRROR*
- *Dimmer*
- *Output: 1 channel*
- *Voltage: 12/24 VDC*
- *Intensity: 4 A max.*
- *Measures: 26 x 28 x 7 mm.*
- *Thickness of mirror: ≤ 5 mm*

### 2901MD



#### TOUCH SENSOR PARA ESPEJO + DIMMER + ANTIVAHÓ

- Interruptor TACTIL para ESPEJO.
- Dimmer + Desempañado (Antivaho)
- Salidas: 1 canal
- Voltaje: 12 VCC
- Intensidad: 4 A máx.
- Medidas: 113 x 40 x 12 mm
- Espesor del espejo: ≤ 5 mm

#### MIRROR TOUCH SWITCH ON/OFF + DIMMING + REMOVE MIST

- *ON/OFF switch MIRROR*
- *Dimmer + Defogging function*
- *Output: 1 channel*
- *Voltage: 12 VDC*
- *Intensity: 4 A max.*
- *Measures: 113 x 40 x 12 mm.*
- *Thickness of mirror: ≤ 5 mm*

La gama de productos PANTRONIC® está diseñada específicamente para el control de salidas directas a LED, mediante PWM, en diferentes líneas de producto:

- Intermitencias
- Variadores (Dimmers)
- Controladores LED monocolor (simulación de movimientos)
- Controladores LED RGB (cambio cromático)
- Accesorios (Pulsadores y potenciómetros exteriores)



### APLICACIONES TÍPICAS

- Rótulos luminosos
- Iluminación directa, indirecta o ambiental
- Iluminación espectacular
- Equipos publicitarios
- Señalización
- Luminarias especiales

### CARACTERÍSTICAS Y RECOMENDACIONES

- Piloto indicador de funcionamiento (según modelo)
- A falta de alimentación mantiene última posición grabada y, por defecto, retorna en apagado. Bajo pedido puede suministrarse con retorno en encendido
- Rango de temperatura: -25° a 55° C
- IP20 hasta IP65 (según modelo)
- Desde 1 a 48 salidas de 20 A máx por salida mediante conectores enchufables
- Es recomendable instalar un fusible rápido en aquellos equipos que no lo dispongan de serie
- Puede haber incompatibilidad con bombillas o tiras LED con driver incorporado no regulable
- Distancias máximas recomendadas:
  - desde el equipo a los Led's = 1.5 mts
  - desde el equipo al pulsador externo = 15 mts
  - desde el equipo al potenciómetro externo = 0.5 mts
  - desde el equipo a la Fuente de Alimentación = 10 mts

### DEFINICIONES

- Control regulable: Tiempos y velocidades de ejecución del programa, regulables por el usuario
- Control fijo: Programación "a medida" según indicaciones. No regulable por el usuario
- Pulso corto: Pulsación constante realizada durante un máximo de 0.5 segundos
- Pulso largo: Pulsación constante realizada durante un mínimo de 0.5 segundos
- Ciclo: Programación repetitiva pregrabada de un conjunto de secuencias encadenadas
- Secuencia: Suma de cambios de estado en una salida necesarios para obtener un efecto concreto (Ejemplo: tiempo ON + tiempo OFF, en una intermitencia)

### CONTROL (según tipo de regulación)

|  |   |
|--|---|
| <b>Regulación secuencial mediante pulsador P1</b><br>(Puede comandar varios equipos en paralelo)     | Cada pulso corto incrementa la luminosidad según la secuencia siguiente:<br>9% 20% 30% 40% 50% 60% 70% 80% 90% 98% reinicio al 9%<br>Un pulso largo reinicia el equipo al 9%  |
| <b>Regulación lineal mediante pulsador P1</b>  | Manteniendo pulsado varía la luminosidad entre 9% - 98% - 9%<br>Un pulso corto apagará, otro pulso corto la enciende en su última posición  |
| <b>Regulación oscilante mediante pulsador P1</b>   | Un pulso largo varía la luminosidad de forma inversa al último pulso largo realizado, entre 9% y 98%, reiniciando al 9%<br>Un pulso corto apaga la salida, otro pulso la enciende en su última posición                 |
| <b>Regulación lineal mediante potenciómetro P2</b>   | Mediante el giro del potenciómetro se varía la luminosidad entre 15% y 98%<br>La salida se mantiene apagada por debajo del 15%  |
| <b>Regulación lineal mediante potenciómetro P2 + pulsador P1 o potenciómetro P2 + interruptor P1</b> | Mediante el giro del potenciómetro se varía la luminosidad entre 15% y 98%<br>Un pulso corto apaga la salida, otro pulso corto la enciende en su última posición<br>Usando el interruptor se enciende o apaga la salida |



The PANTRONIC® product range is specifically designed for the control of direct outputs to LED, using PWM, in different product lines:

- Intermittent (Flashing)
- Dimmers
- Monocolor LED drivers (monition simulation)
- RGB LED controllers (chromatic change)
- Accessories (external pushbuttons and potentiometers)



## TYPICAL APPLICATIONS

- Illuminated signs
- Direct, indirect or ambient lighting
- Spectacular lighting
- Advertising equipment
- Signaling
- Special luminaires

## CHARACTERISTICS AND RECOMENDATIONS

- Indicator pilot (depending on model)
- In the absence of power it keeps last recorded position and, by default, returns to OFF. On request can be supplied with return to ON
- Temperature range: -25° to 55° C
- IP20 to IP65 (depending on model)
- From 1 to 48 outputs of 20A per output through pluggable connectors
- It is recommended to install a fast fuse in equipment that does not have it as standard
- There may be incompatibility with LED bulbs or strips with a non-adjustable built-in driver
- Recommended maximum distances:
  - from the equipment to the Led's = 1.5 mts
  - from the equipment to the external button = 15 mts
  - from the equipment to the external potentiometer = 0.5 mts
  - from the equipment to the Power Supply = 10 mts

## DEFINITIONS

- Manual control: Program execution times and speeds, adjustable by the user
- Automatic control: Customized program according to indications. Not user adjustable.
- Short press: Constant pulsation made for a maximum of 0.5 seconds
- Long press: Constant pulsation made for a minimum of 0.5 seconds
- Cycle: Prerecorded repetitive programming of a set of chained sequences
- Sequence: Sum of state changes in an output necessary to obtain an effect  
(Example: ON time + OFF time, in a flashing)

## CONTROL (according to type of regulation)

**Sequential regulation by P1 pushbutton**  
(It can command several teams in parallel)

Each short press increases the brightness in the following sequence:  
9% 20% 30% 40% 50% 60% 70% 80% 90% 98% and back to 9%  
A long press resets equipment at 9%

**Linear regulation by P1 pushbutton**

Holding down varies the luminosity between 9% - 98% - 9%  
A short press will turn off, another press will turn it on in the last position

**Oscillating regulation by P1 pushbutton**

A long press varies the luminosity inversely to the last long press performed, between 9% & 98%, resetting to 9%  
A short press will turn off, another press will turn it on in the last position

**Linear regulation by P2 potentiometer**

By turning the potentiometer, the brightness varies between 15% & 98%  
The output remains off below 15%

**Linear regulation by P2 potentiometer + P1 pushbutton or P2 potentiometer + P1 switch**

By turning the potentiometer the brightness is varied between 15 & 98%  
A short press turns off, another press will turn it on in the last position  
Using the switch turns the output on or off



Un regulador de intensidad luminosa, también conocido como atenuador de luz, es un dispositivo que te permite ajustar la cantidad de luz emitida por una fuente de iluminación, como una lámpara o un LED, de manera gradual.

Nuestros reguladores PWM se utilizan para controlar y ajustar la intensidad luminosa de un LED de un solo color.

El control de intensidad mediante PWM **NO** cambia la temperatura de color del LED, solo su brillo. Si necesita controlar tanto el brillo como la temperatura de color, vea nuestros controladores CCT.

*A dimmer, also known as a light dimmer, is a device that allows you to adjust the amount of light emitted by a light source, such as a lamp or LED, gradually.*

*Our PWM dimmers are used to control and adjust the luminous intensity of a single color LED.*

*PWM dimming does **NOT** change the color temperature of the LED, only its brightness. If you need to control both brightness and color temperature, see our CCT controllers.*

| Seleccione referencia<br>Select reference | VARIADOR PWM PARA LED MONOCOLOR<br>(modelo configurable)  | DIMMER PWM FOR SINGLE-COLOR LED<br>(configurable model)   |
|---|---|---|
|   | Variador configurable en múltiples parámetros.<br>Utilice el árbol de referencias inferior para seleccionar la referencia del equipo según sus necesidades.   | Dimmer configurable in multiple parameters.<br>Use the lower reference tree to select the equipment reference according to your needs.  |
|   |   |   |
|   | <p><b>EQUIPO / EQUIPMENT</b><br/>Variador o Regulador / Dimmer <b>V</b></p> <p><b>LED &amp; CONTROL</b><br/>monocolor regulable / single-color adjustable <b>A</b></p> <p><b>PRESENTACIÓN / PRESENTATION</b><br/>armario PRFV IP65 / GFRP box IP65 <b>A</b><br/>caja V0 BOEL-TRONIC IP20 / BOEL-TRONIC V0 box IP20 <b>R</b><br/>caja PBT-V0 o ABS IP200 / PBT-V0 or ABS box IP20 <b>S</b></p> <p><b>Nº DE SALIDAS / OUTPUT NUMBER</b><br/><b>Caja A o S:</b> 1 a 12 bornes de salida / <b>A or S Box:</b> 1 to 12 output terminals <b>XX</b><br/><b>Caja R:</b> 1C salida con cable / <b>R Box:</b> 1 cable out <b>XX</b><br/><b>Caja R:</b> 1x a 3x conectores XA / <b>R Box:</b> 1x to 3x XA connectors <b>XX</b><br/><b>Caja R:</b> 4C salida con cable + 3XA / <b>R Box:</b> 1C cable out + 3XA <b>XX</b></p> | <p><b>COLOR CAJA (solo para caja R) / BOX COLOR (for R box only)</b><br/><b>B</b> Blanca / White<br/><b>N</b> Negra / Black</p> <p><b>VOLTAJE / VOLTAGE</b><br/><b>A</b> 12-24 VCC / 12-24 VDC<br/><b>B</b> 26 a 40 VCC / 26 to 40 VDC<br/><b>C</b> 5 VCC / 5 VDC</p> <p><b>INTENSIDAD / INTENSITY</b><br/><b>20</b> <b>Caja A o S:</b> 20 A máx. por salida / <b>A or S Box:</b> 20 A max. by output<br/><b>10</b> <b>Caja R:</b> 10 A máx. en cable / <b>R Box:</b> 10 A max. Cable output<br/><b>03</b> <b>Caja R:</b> 3 x 3A máx. en XA / <b>R Box:</b> 3 x 3A max. XA output</p> <p><b>REGULACIÓN / REGULATION</b><br/><b>A</b> Secuencial, pulsador exterior / Sequential, push-button external<br/><b>B</b> Lineal, pulsador exterior / Linear, push-button external<br/><b>C</b> Lineal, potenciómetro exterior / Linear, push-button external<br/><b>D</b> Lineal, doble pulsador exterior / Linear, double external pushbutton<br/><b>O</b> Oscilante, pulsador exterior / Oscillating, push-button external<br/><b>T</b> Pregrabado según especificación cliente, con regulación / Pre-recorded according to customer specification, with regulation<br/><b>P</b> Pregrabado según especificación cliente, sin regulación / Pre-recorded according to customer specification, without regulation</p> |
|   | consultar otros valores / consult other values  |   |



**Caja R**  
**R Box**  
62 x 33 x 15 mm



**Caja S**  
**S Box**  
105 x 105 x 55 mm



**Caja A**  
**A Box**  
Medidas según equipo /  
Size according to model



| CÓDIGO<br>CODE | DESCRIPCIÓN<br>DESCRIPTION   |  |
|----------------|--|--|
| VAR1CO10AN     | <input checked="" type="checkbox"/> Variador PWM con regulación oscilante por pulsador<br>Salidas: 1 x cable 10A Máx.        |  |
| VAR1CO10AB     | <input type="checkbox"/> <i>Dimmer PWM with oscillating regulation by push-button</i><br><i>Output: 1 x cable 10A Max.</i>   |  |
| VAR01O03AN     | <input checked="" type="checkbox"/> Variador PWM con regulación oscilante por pulsador<br>Salidas: 1 x JST XA 3A Máx.        |  |
| VAR01O03AB     | <input type="checkbox"/> <i>Dimmer PWM with oscillating regulation by push-button</i><br><i>Output: 1 x JST XA 3A Max.</i>   |  |
| VAR02O06AN     | <input checked="" type="checkbox"/> Variador PWM con regulación oscilante por pulsador<br>Salidas: 2 x JST XA 3A Máx.        |  |
| VAR02O06AB     | <input type="checkbox"/> <i>Dimmer PWM with oscillating regulation by push-button</i><br><i>Output: 2 x JST XA 3A Max.</i>   |  |
| VAR03O10AN     | <input checked="" type="checkbox"/> Variador PWM con regulación oscilante por pulsador<br>Salidas: 3 x JST XA 3A Máx.        |  |
| VAR03O10AB     | <input type="checkbox"/> <i>Dimmer PWM with oscillating regulation by push-button</i><br><i>Output: 3 x JST XA 3A Max.</i>   |  |
| VAR1CP510AN    | <input checked="" type="checkbox"/> Selector PWM con reg. 0-25-50-75-100 % por pulsador<br>Salidas: 1 x cable 10A Máx.       |  |
| VAR1CP510AB    | <input type="checkbox"/> <i>Dimmer PWM with 0-25-50-75-100% reg. by push-button</i><br><i>Output: 1 x cable 10A Max.</i>     |  |
| VAR1CC10AN     | <input checked="" type="checkbox"/> Variador PWM con reg. lineal por potenciómetro 470K<br>Salidas: 1 x cable 10A Máx.       |  |
| VAR1CC10AB     | <input type="checkbox"/> <i>Dimmer PWM with linear regulation by potentiometer 470K</i><br><i>Output: 1 x cable 10A Max.</i> |  |
| VAR01C03AN     | <input checked="" type="checkbox"/> Variador PWM con reg. lineal por potenciómetro 470K<br>Salidas: 1 x JST XA 3A Máx.       |  |
| VAR01C03AB     | <input type="checkbox"/> <i>Dimmer PWM with linear regulation by potentiometer 470K</i><br><i>Output: 1 x JST XA 3A Max.</i> |  |
| VAR02C06AN     | <input checked="" type="checkbox"/> Variador PWM con reg. lineal por potenciómetro 470K<br>Salidas: 2 x JST XA 3A Máx.       |  |
| VAR02C06AB     | <input type="checkbox"/> <i>Dimmer PWM with linear regulation by potentiometer 470K</i><br><i>Output: 2 x JST XA 3A Max.</i> |  |
| VAR03C10AN     | <input checked="" type="checkbox"/> Variador PWM con reg. lineal por potenciómetro 470K<br>Salidas: 3 x JST XA 3A Máx.       |  |
| VAR03C10AB     | <input type="checkbox"/> <i>Dimmer PWM with linear regulation by potentiometer 470K</i><br><i>Output: 3 x JST XA 3A Max.</i> |  |

# INTERMITENCIAS Y AMPLIFICADORES

FLASHING & AMPLIFIERS



## Seleccione referencia Select reference

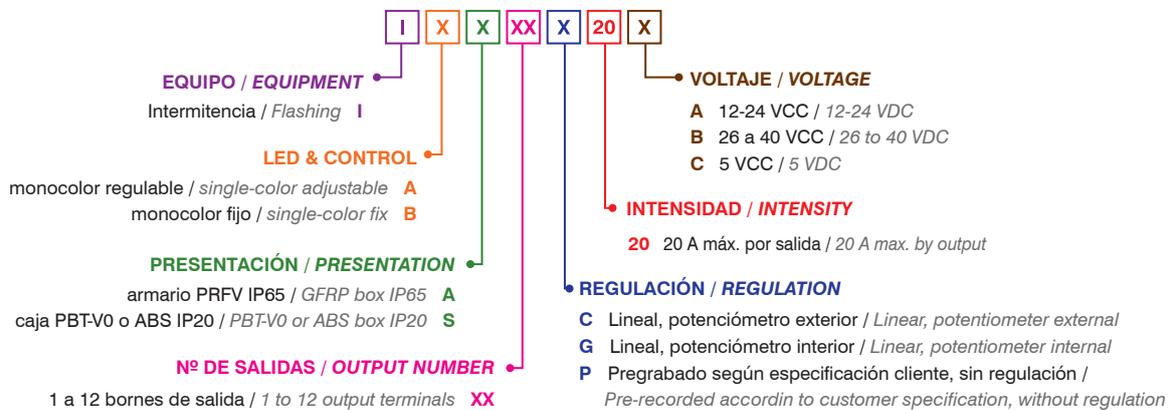
## INTERMITENCIA PWM PARA LED MONOCOLOR (modelo configurable)

## FLASHING PWM FOR SINGLE-COLOR LED (configurable model)



Intermitencia configurable en múltiples parámetros.  
Utilice el árbol de referencias inferior para seleccionar la referencia del equipo según sus necesidades.

Flashing configurable in multiple parameters.  
Use the lower reference tree to select the equipment reference according to your needs.



consultar otros valores / consult other values

## AMPLIFICADORES PWM PARA LED

## PWM AMPLIFIERS FOR LED



**AAS1S20A:** 1 x Monocolor  
**AAS2S10A:** 2 x Monocolor  
**AAS3S5A:** 3 x Monocolor o 1 x RGB  
**AAS4S5A:** 4 x Monocolor o 1 x RGBW

**AAS1S20A:** 1 x Monocolor  
**AAS2S10A:** 2 x Monocolor  
**AAS3S5A:** 3 x Monocolor or 1 x RGB  
**AAS4S5A:** 4 x Monocolor or 1 x RGBW

- Ideal para espacios reducidos
- Permite combinar tiras 12/24 VCC
- Entrada y salida aisladas
- Voltaje: 7 a 25 VCC
- Intensidad: 20 A máx.
- Medidas: 37 x 51 x 27 mm

- Ideal for small spaces
- You can combine 12/24 VDC strips
- Isolated input and output
- Voltage: 7 to 25 VDC
- Intensity: 20 A max.
- Measures: 37 x 51 x 27 mm

# CONTROLADORES LED

## LED CONTROLLERS



**Seleccione referencia**  
Select reference

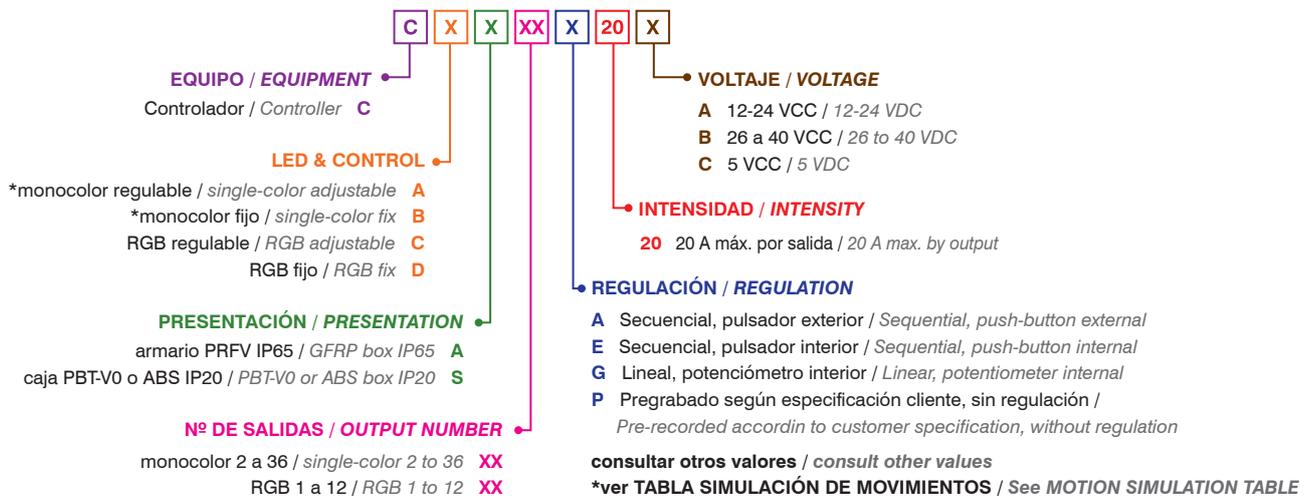
**CONTROLADOR PWM PARA LED**  
(modelo configurable)

**CONTROLLER PWM FOR LED**  
(configurable model)



Controlador configurable en múltiples parámetros.  
Utilice el árbol de referencias inferior para seleccionar la referencia del equipo según sus necesidades.

Controller configurable in multiple parameters.  
Use the lower reference tree to select the equipment reference according to your needs.



### CRF-RGB

**CONTROLADOR REMOTO RF PARA LED**  
(1 canal RGB o 3 monocolor)

**RF REMOTE CONTROLLER FOR LED**  
(1 RGB or 3 single-color channels)



- Control remoto por RF (máx. 10 mts)
- Múltiples cambios de color programados
- Mando 20 teclas, 20 funciones
- Voltaje: 12/24 VCC
- Intensidad: 3 x 4 A máx.
- Medidas: 128 x 65 x 23 mm

- RF remote control (max. 10 mts)
- Lots of scheduled color changes
- 20-key & 20 functions remote
- Voltage: 12/24 VDC
- Intensity: 3 x 4 A max.
- Measures: 128 x 65 x 23 mm

### DIMRF-TOUCH

**CONTROLADOR REMOTO RF PARA LED**  
(1 canal RGB o 3 monocolor)

**RF REMOTE CONTROLLER FOR LED**  
(1 RGB or 3 single-color channels)



- Control remoto por RF (máx. 10 mts)
- Regulación independiente de cada canal
- Mando con teclado táctil
- Voltaje: 12/24 VCC
- Intensidad: 3 x 6 A máx.
- Medidas: 83 x 79 x 33 mm

- RF remote control (max. 10 mts)
- Independent regulation each channel
- Touch-key remote
- Voltage: 12/24 VDC
- Intensity: 3 x 6 A max.
- Measures: 83 x 79 x 33 mm

### CRF-RGBW

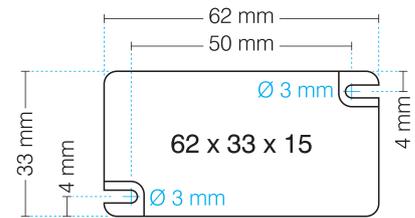
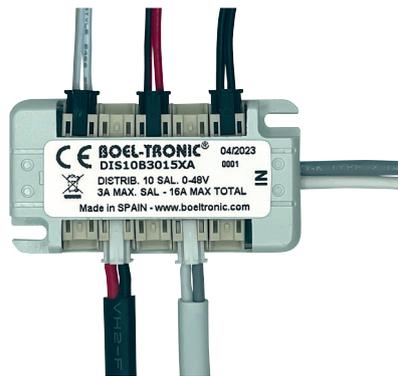
**CONTROLADOR REMOTO RF PARA LED**  
(1 canal RGB+W o 4 monocolor)

**RF REMOTE CONTROLLER FOR LED**  
(1 RGB+W or 4 single-color channels)



- Control remoto por RF (máx. 10 mts)
- Múltiples efectos programados
- Mando con teclado táctil
- Voltaje: 12/24 VCC
- Intensidad: 4 x 4 A máx.
- Medidas: 85 x 45 x 22 mm

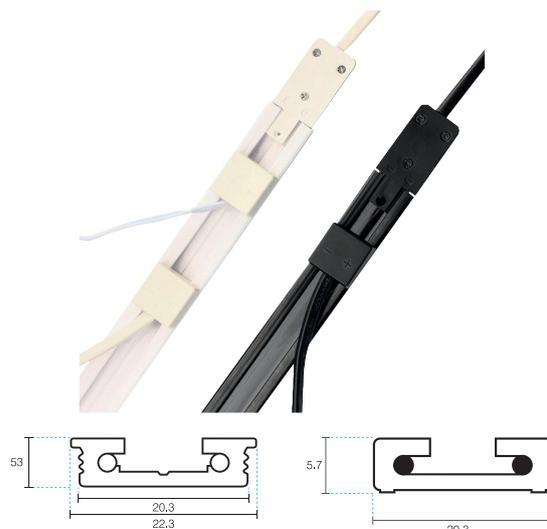
- RF remote control (max. 10 mts)
- Multiple programmed effects
- Touch-key remote
- Voltage: 12/24 VDC
- Intensity: 4 x 4 A max.
- Measures: 85 x 45 x 22 mm



Distribuidores para corriente continua entre 5 y 48 VCC, con 5 ó 10 salidas mediante conectores JST XA o JST XH de un consumo máximo de 3 Amperios por conector. En caso necesario es posible realizar una salida por cable que soporte mayor amperaje.

Distributors for direct current between 5 and 48 VDC, with 5 or 10 outputs through connectors JST XA or JST XH with a maximum consumption of 3 Ampere per connector. It is possible to realize a higher amperage cable output if required.

| CÓDIGO<br>CODE | DESCRIPCIÓN<br>DESCRIPTION          | 3A MAX. x OUT                             |  |
|----------------|-------------------------------------|---|--|
| DIS05N3015XA   | <input checked="" type="checkbox"/> | DISTRIB VCC/VDC MONOCOLOR OUT 5 x JST XA  |  |
| DIS05B3015XA   | <input type="checkbox"/>            |   |  |
| DIS10N3015XA   | <input checked="" type="checkbox"/> | DISTRIB VCC/VDC MONOCOLOR OUT 10 x JST XA |  |
| DIS10B3015XA   | <input type="checkbox"/>            |   |  |
| DIS05N3015XH   | <input checked="" type="checkbox"/> | DISTRIB VCC/VDC MONOCOLOR OUT 5 x JST XH  |  |
| DIS05B3015XH   | <input type="checkbox"/>            |   |  |
| DIS10N3015XH   | <input checked="" type="checkbox"/> | DISTRIB VCC/VDC MONOCOLOR OUT 10 x JST XH |  |
| DIS10B3015XH   | <input type="checkbox"/>            |   |  |
| DISRGB02N3015  | <input checked="" type="checkbox"/> | DISTRIB VCC/VDC RGB OUT 2 x JST XA        |  |
| DISRGB02B3015  | <input type="checkbox"/>            |   |  |
| DISRGB04N3015  | <input checked="" type="checkbox"/> | DISTRIB VCC/VDC RGB OUT 4 x JST XA        |  |
| DISRGB04B3015  | <input type="checkbox"/>            |   |  |
| DISRGBW2N3015  | <input checked="" type="checkbox"/> | DISTRIB VCC/VDC RGB+W OUT 2 x JST XA      |  |
| DISRGBW2B3015  | <input type="checkbox"/>            |   |  |
| DISRGBW4N3015  | <input checked="" type="checkbox"/> | DISTRIB VCC/VDC RGB+W OUT 4 x JST XA      |  |
| DISRGBW4B3015  | <input type="checkbox"/>            |   |  |

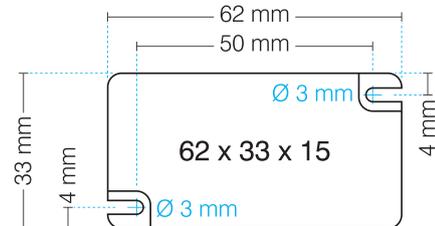


**CANAL ELECTRIFICADA / POWER TRACK**

|              |  |  |
|--------------|--|--|
| CES20002006B | Canal blanca de superficie, 2000 x 20.3 x 5.7 mm, 25 A máx.<br><i>White track surface, 2000 x 20.3 x 5.7 mm, 25 A max.</i> |  |
| CES20002006N | Canal negra de superficie, 2000 x 20.3 x 5.7 mm, 25 A máx.<br><i>Black track surface, 2000 x 20.3 x 5.7 mm, 25 A max.</i>  |  |
| CEE20002006B | Canal blanca de empotrar, 2000 x 22.3 x 5.9 mm, 25 A máx.<br><i>White track recessed, 2000 x 22.3 x 5.9 mm, 25 A max.</i>  |  |
| CEE20002006N | Canal negra de empotrar, 2000 x 22.3 x 5.9 mm, 25 A máx.<br><i>Black track recessed, 2000 x 22.3 x 5.9 mm, 25 A max.</i>   |  |

**CONECTORES Y TAPAS / CONNECTORS & COVERS**

|              |  |  |
|--------------|--|--|
| KCE8A200000B | Conector potencia blanco 2 x 0.75 mm <sup>2</sup> x 2 mts, 8 A máx.<br><i>White power connector 2 x 0.75 mm<sup>2</sup> x 2 mts, 8 A max.</i>      |  |
| KCE8A200000N | Conector potencia negro 2 x 0.75 mm <sup>2</sup> x 2 mts, 8 A máx.<br><i>Black power connector 2 x 0.75 mm<sup>2</sup> x 2 mts, 8 A max.</i>       |  |
| KCE8A100090B | Conector ramal blanco 90° 2 x 0.75 mm <sup>2</sup> x 1 mt, 8 A máx.<br><i>White tracker connector 90° 2 x 0.75 mm<sup>2</sup> x 1 mt, 8 A max.</i> |  |
| KCE8A100090N | Conector ramal negro 90° 2 x 0.75 mm <sup>2</sup> x 1 mt, 8 A máx.<br><i>Black tracker connector 90° 2 x 0.75 mm<sup>2</sup> x 1 mt, 8 A max.</i>  |  |
| KCE4A100090B | Conector ramal blanco 90° 2 x 0.35 mm <sup>2</sup> x 1 mt, 4 A máx.<br><i>White tracker connector 90° 2 x 0.35 mm<sup>2</sup> x 1 mt, 4 A max.</i> |  |
| KCE4A100090N | Conector ramal negro 90° 2 x 0.35 mm <sup>2</sup> x 1 mt, 4 A máx.<br><i>Black tracker connector 90° 2 x 0.35 mm<sup>2</sup> x 1 mt, 4 A max.</i>  |  |
| TACEB        | Tapa final sin agujero blanca / <i>White end cap without hole</i>  |  |
| TACEN        | Tapa final sin agujero negra / <i>Black end cap without hole</i>   |  |



- 12/24 VCC, 7A máx.
- 1 Sensor interior o hasta 4 sensores exteriores
- 1 Pulsador, Interruptor o potenciómetro exterior o bien un potenciómetro interior
- 1 Zumbador exterior

- 12/24 VDC, 7A máx.
- 1 Internal sensor o to 4 external sensors
- 1 External Push button, Switch or potentiometer or an internal potentiometer
- 1 External Buzzer

Equipos destinados al control de LED'S desde una detección de presencia, de mano o de puerta. Siendo de fabricación propia podemos adaptarlos a sus necesidades. Disponemos de accesorios para externos para mayor versatilidad.

Equipment for the control of LED'S from a presence, hand or door detection. Being of own manufacture we can adapt them to your needs. We have external accessories for greater versatility.

Seleccione la referencia según las opciones deseadas.

Select the reference according to the desired options.

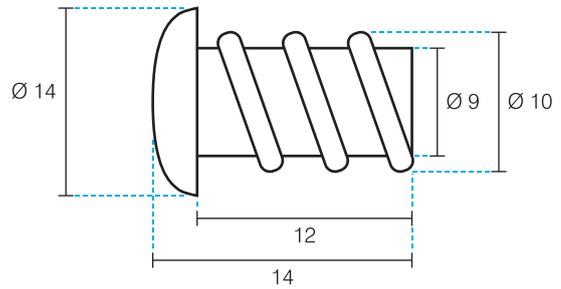
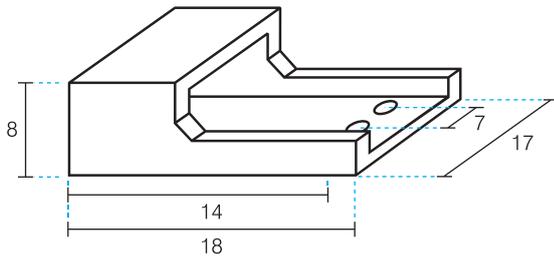
|  |   |
|--|---|
| <div style="display: flex; justify-content: space-around; margin-bottom: 5px;"> <span style="border: 1px solid black; padding: 2px;">S</span> <span style="border: 1px solid black; padding: 2px;">X</span> <span style="border: 1px solid black; padding: 2px;">XX</span> </div> <p><b>CONTROL SENSOR</b></p> <p><b>MODELO / MODEL</b><br/>de Mano / Hand <b>H</b><br/>de Puerta / Door <b>D</b><br/>Especial / Special <b>S</b></p> <p><b>SENSOR</b></p> <p>Sensor interno lateral / Internal side sensor <b>L</b><br/>Sensor interno inferior / Lower internal sensor <b>I</b><br/>1 Sensor externo / 1 External sensor <b>1</b><br/>2 Sensor externo / 2 External sensor <b>2</b><br/>3 Sensor externo / 3 External sensor <b>3</b><br/>4 Sensor externo / 4 External sensor <b>4</b></p> <p><b>CARACTERÍSTICAS ESPECIALES / SPECIAL FEATURES</b></p> <p>Por defecto / Default <b>O</b><br/>Con pulsador exterior / External pushbutton <b>P</b><br/>Pulsador + Zumbador / Pushbutton + Buzzer <b>Q</b><br/>Con interruptor exterior / External switch <b>I</b><br/>Interruptor + zumbador / Switch + Buzzer <b>J</b><br/>Zumbador / Buzzer <b>Z</b><br/>Potenciómetro / Potentiometer <b>R</b></p> | <p><b>COLOR CABLE SALIDA / OUT CABLE COLOR</b></p> <p><b>BG</b> 2 x 0.5mm<sup>2</sup> Blanco-Gris / White-Grey<br/><b>RN</b> 2 x 0.5mm<sup>2</sup> Rojo-Negro / Red-Black<br/><b>NN</b> 2 x 0.5mm<sup>2</sup> Negro-Negro / Black-Black</p> <p><b>LARGO CABLE SALIDA / OUT CABLE LONG</b></p> <p><b>10-99</b> Centímetros / Centimeters<br/><b>1M-3M</b> Metros / Meters</p> <p><b>COLOR CABLE ENTRADA / INPUT CABLE COLOR</b></p> <p><b>BG</b> 2 x 0.5mm<sup>2</sup> Blanco-Gris / White-Grey<br/><b>RN</b> 2 x 0.5mm<sup>2</sup> Rojo-Negro / Red-Black<br/><b>NN</b> 2 x 0.5mm<sup>2</sup> Negro-Negro / Black-Black</p> <p><b>LARGO CABLE ENTRADA / INPUT CABLE LONG</b></p> <p><b>10-99</b> Centímetros / Centimeters<br/><b>1M-3M</b> Metros / Meters</p> <p><b>RANGO DETECCIÓN / DETECTION RANGE (*)</b></p> <p><b>A</b> 0-30 mm Rango detección PUERTA / DOOR Detection range<br/><b>B</b> 30-150 mm Rango detección MANO / HAND Detection range<br/><b>C</b> 50-300 mm Rango detección MANO / HAND Detection range</p> |
|--|---|

consultar otros valores / consult other values

(\*) Para sensores internos. Excepto fondo negro / For internals sensors. Except black background

# SENSORES EXTERNOS

## EXTERNAL SENSORS



Sensores externos diseñados para complementar los Equipos de Control anteriores, aptos para la detección de objetos (excepto en color negro) o manos.

Disponibles en distintas sensibilidades:

- 0 - 30 mm para detección de puertas
- 30 - 150 mm para detección de manos
- 50 - 300 mm para detección de manos

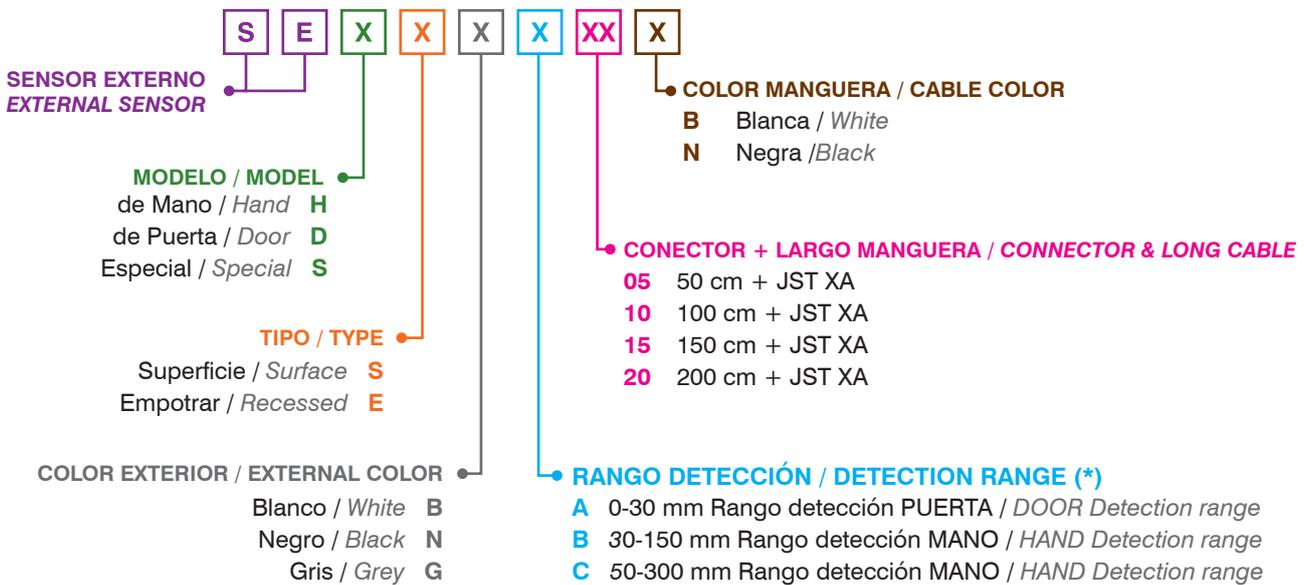
Seleccione la referencia según las opciones deseadas.

External sensors designed to complement the above Control Equipment, suitable for detection of objects (except in black color) or hands.

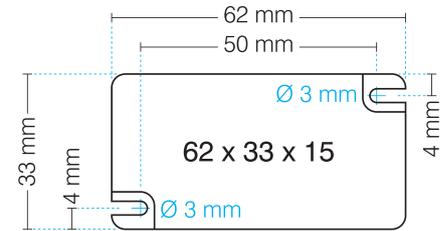
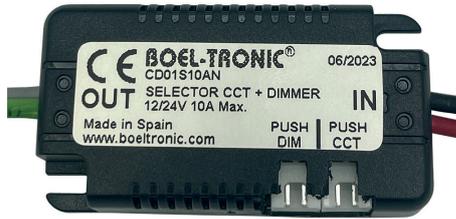
Available in different sensitivities:

- 0 - 30 mm for door detection
- 30 - 150 mm for hand detection
- 50 - 300 mm for hand detection

Select the reference according to the desired options.



consultar otros valores / consult other values  
 (\*) Excepto fondo negro / Except black background



**CC - Control de Temperatura de color / Color Control Temperature**

Mediante un pulsador, el controlador nos permite ajustar la temperatura de color de las luces LED. Podemos ajustar las luces a una temperatura de color más cálida (alrededor de 2700K) para un ambiente acogedor e íntimo, o a una temperatura de color más fría (alrededor de 6000K) para un entorno más concentrado y energizante.

*Using a push button, the controller allows us to adjust the colour temperature of the LED lights. We can set the lights to a warmer colour temperature (around 2700K) for a cosy and intimate atmosphere, or to a cooler colour temperature (around 6000K) for a more concentrated and energizing environment.*

| CÓDIGO<br>CODE | DESCRIPCIÓN<br>DESCRIPTION     |  |  |
|----------------|--------------------------------|--|--|
| CC01S10AN      | SELECTOR CCT 12/24VCC 10A Max. |  |  |
| CC01S10AB      | SELECTOR CCT 12/24VCC 10A Max. |  |  |
| CC01O10AN      | DIMMER CCT 12/24VCC 10A Max.   |  |  |
| CC01O10AB      | DIMMER CCT 12/24VCC 10A Max.   |  |  |

**CD - Control luminosidad y Temperatura de color / Dimmer and Color Control Temperature**

Estos modelos de controladores LED CCT también incorporan la función de regulación. Esto le permite ajustar el brillo de las luces LED, además de cambiar la temperatura de color. La atenuación puede ayudarle a crear el nivel deseado de iluminación para diferentes ocasiones o escenarios específicos (lectura, relajación, etc).

*These CCT LED driver models also incorporate a dimming function. This allows you to adjust the brightness of the LED lights in addition to changing the colour temperature. Dimming can help you create the desired level of illumination for different occasions or specific scenarios (reading, relaxation, etc).*

| CÓDIGO<br>CODE | DESCRIPCIÓN<br>DESCRIPTION         |  |  |
|----------------|------------------------------------|--|--|
| CD01S10AN      | SELECTOR CCT + DIMMER 12-24VCC 10A |  |  |
| CD01S10AB      | SELECTOR CCT + DIMMER 12-24VCC 10A |  |  |
| CD01O10AN      | DIMMER CCT + DIMMER 12-24VCC 10A   |  |  |
| CD01O10AB      | DIMMER CCT + DIMMER 12-24VCC 10A   |  |  |



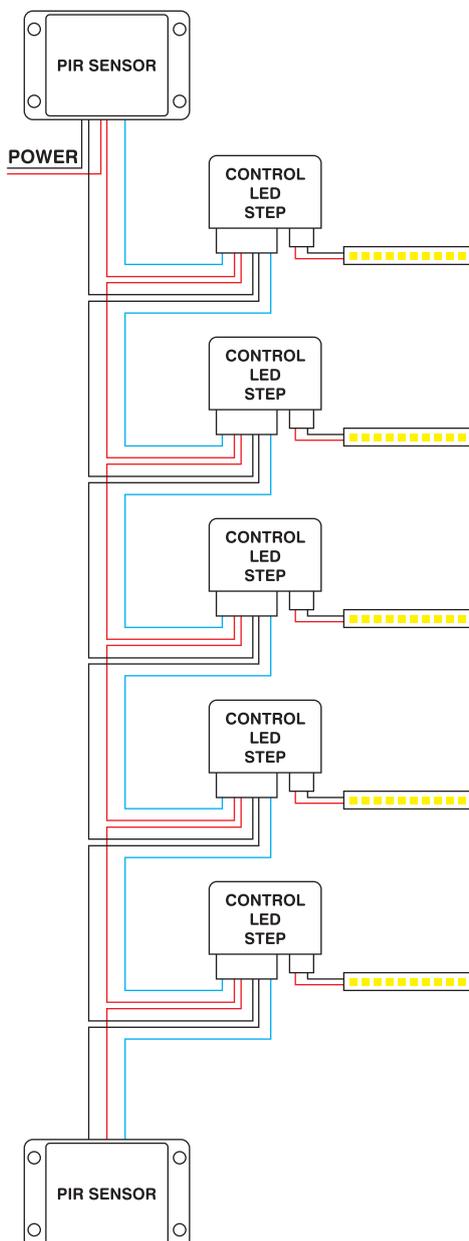
**PIR SENSOR**  
68 x 45 x 21 mm



**CONTROL LED STEPS**  
40 x 30(+10) x 14 mm

Sistema para el encendido/apagado de peldaños iluminados en escaleras mediante la detección de presencia en las zonas de acceso.

System for switching on and off the lighting of stair treads by detecting presence in access areas.



### PIR SENSOR

Cuando los PIR SENSOR detectan un cambio de estado, inician el ciclo de encendido/apagado de los LED's en los peldaños, a través de los CONTROL LED STEP, con los parámetros siguientes:

- Rango de detección máximo de 5 x 3 mts / 120°
- Alimentación a 12 ó 24 VCC según circuitos LED
- Encendido/apagado crepuscular temporizado regulable (por defecto)
- Encendido/apagado según sentido de marcha (opcional)
- Distancia máxima entre sensor y el primer peldaño de 10 mts.

When the PIR SENSOR detect a change of state, they initiate ON/OFF cycle of the LED's on the steps, through the CONTROL LED STEP, with the following parameters:

- Detection range max. 5 x 3 mts / 120°
- 12 or 24 VDC power supply depending on to LED circuits
- Twilight ON/OFF dimmable (default)
- ON/OFF according to direction of travel (optional)
- Maximum distance between sensor and first step to 10 mts.

### CONTROL LED STEP

Parámetros de circuitos de control PWM para LED's en peldaños:

- Sin límite de peldaños
- Alimentación a 12 ó 24 VCC según circuitos LED
- Cada circuito de control soporta hasta 5 A
- Conexión en serie
- Conectores enchufables para facilidad de montaje

PWM control circuit parameters for the LED's in the rungs:

- Unlimited number of rungs (steps)
- 12 or 24 VDC power supply depending on to LED circuits
- Each control circuit supports up to 5 A
- Serial connection
- Plug-in connectors for easy mounting or replacement

Consultar otras opciones / Consult othere options

# **ELECTRÓNICA VAC**

## VAC ELECTRONICS

**VARIADORES PARA LAMPARAS**

*DIMMERS FOR LAMPS*

**TRANSFORMADORES ELECTRÓNICOS**

*ELECTRONIC TRANSFORMER*

**VARIADORES PARA NEÓN**

*NEON DIMMERS*

**INTERMITENCIAS PARA NEÓN**

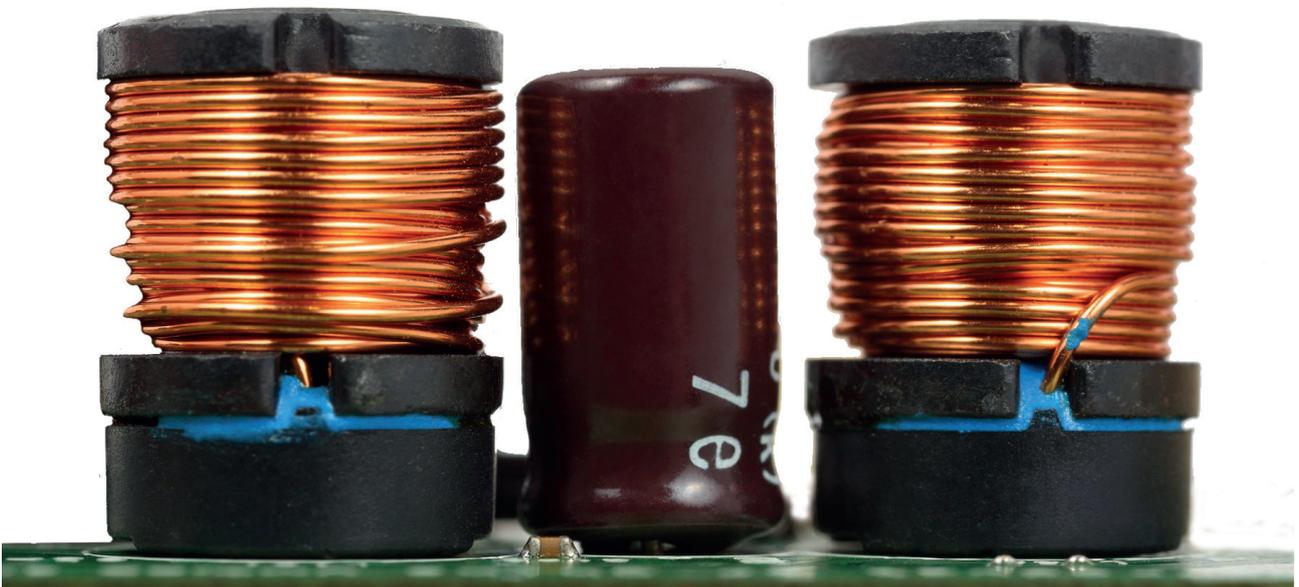
*NEON FLASH*

**CONTROLADORES PARA NEÓN**

*NEON CONTROLLERS*

**TABLA DE SIMULACIÓN DE MOVIMIENTOS**

*MOTION SIMULATION TABLE*



R500

MINI VARIADOR 75-300 W

MINI DIMMER 75-300 W



- Regulación lineal mediante potenciómetro 470 K $\Omega$  (Incluido)
- Voltaje: 220-240 VAC 50 Hz
- Potencia: MÍN. 75 W – MÁX. 300 W
- Medidas: 39 x 21 x 14 mm
- Para lámparas de incandescencia, halógenas o dicroicas

- *Linear regulation by 470 K $\Omega$  potentiometer (Included)*
- *Voltage: 220-240 VAC 50 Hz*
- *Power: Min. 75 W - Max. 300 W*
- *Measures: 39 x 21 x 14 mm*
- *For incandescent, halogen or dichroic lamps*

P100

MINI VARIADOR 40-160 W

MINI DIMMER 40-160 W



- Regulación lineal mediante potenciómetro 470 K $\Omega$  (Incluido)
- Voltaje: 220-240 VAC 50 Hz
- Potencia: MÍN. 40 W – MÁX. 160 W
- Medidas: 41 x 27 x 17 mm
- Para lámparas de incandescencia, halógenas o dicroica y bombillas **LED E27 REGULABLES** (Comprobar compatibilidad)

- *Linear regulation by 470 K $\Omega$  potentiometer (Included)*
- *Voltage: 220-240 VAC 50 Hz*
- *Power: Min. 40 W - Max. 160 W*
- *Measures: 41 x 27 x 17 mm*
- *For incandescent, halogen or dichroic lamps and **DIMMABLES E27 LED bulbs** (Check compatibility)*

P300

MINI VARIADOR 75-300 W

MINI DIMMER 75-300 W



- Regulación lineal mediante potenciómetro 470 K $\Omega$  (Incluido)
- Voltaje: 220-240 VAC 50 Hz
- Potencia: MÍN. 75 W – MÁX. 300 W
- Medidas: 41 x 27 x 17 mm
- Para lámparas de incandescencia, halógenas o dicroicas

- *Linear regulation by 470 K $\Omega$  potentiometer (Included)*
- *Voltage: 220-240 VAC 50 Hz*
- *Power: Min. 75 W - Max. 300 W*
- *Measures: 41 x 27 x 17 mm*
- *For incandescent, halogen or dichroic lamps*

E100

VARIADOR 40-160 W

DIMMER 40-160 W



- Regulación lineal mediante potenciómetro 470 K $\Omega$  (No incluido)
- Voltaje: 220-240 VAC 50 Hz
- Potencia: MÍN. 40 W – MÁX. 160 W
- Medidas: 63 x 30 x 22 mm
- Para lámparas de incandescencia, halógenas o dicroicas

- *Linear regulation by 470 K $\Omega$  potentiometer (Not included)*
- *Voltage: 220-240 VAC 50 Hz*
- *Power: Min. 40 W - Max. 160 W*
- *Measures: 63 x 30 x 22 mm*
- *For incandescent, halogen or dichroic lamps*

**E500**

**VARIADOR 75-300 W**

**DIMMER 75-300 W**



- Regulación lineal mediante potenciómetro 470 K $\Omega$  (No incluido)
- Voltaje: 220-240 VAC 50 Hz
- Potencia: MÍN. 75 W – MÁX. 300 W
- Medidas: 63 x 30 x 22 mm
- Para lámparas de incandescencia, halógenas o dicroicas

- *Linear regulation by 470 K $\Omega$  potentiometer (Not included)*
- *Voltage: 220-240 VAC 50 Hz*
- *Power: Min. 75 W - Max. 300 W*
- *Measures: 63 x 30 x 22 mm*
- *For incandescent, halogen or dichroic lamps*

**E110**

**VARIADOR 40-300 W - 110-120 VAC**

**DIMMER 40-300 W - 110-120 VAC**



- Regulación lineal mediante potenciómetro 470 K $\Omega$  (No incluido)
- Voltaje: 110-120 VAC 50 Hz
- Potencia: MÍN. 40 W – MÁX. 300 W
- Medidas: 63 x 30 x 22 mm
- Para lámparas de incandescencia, halógenas o dicroicas

- *Linear regulation by 470 K $\Omega$  potentiometer (Not included)*
- *Voltage: 110-120 VAC 50 Hz*
- *Power: Min. 40 W - Max. 300 W*
- *Measures: 63 x 30 x 22 mm*
- *For incandescent, halogen or dichroic lamps*

**ST100**

**VARIADOR 40-160 W PULSADOR**

**DIMMER 40-160 W PUSH-BUTTON**



- Regulación lineal mediante pulsador NA (No incluido)
- Voltaje: 220-240 VAC 50 Hz
- Potencia: MÍN. 40 W – MÁX. 160 W
- Medidas: 63 x 30 x 22 mm
- Para lámparas de incandescencia, halógenas o dicroicas

- *Linear regulation by NA push-button (Not included)*
- *Voltage: 220-240 VAC 50 Hz*
- *Power: Min. 40 W - Max. 160 W*
- *Measures: 63 x 30 x 22 mm*
- *For incandescent, halogen or dichroic lamps*

**ST300**

**VARIADOR 75-300 W PULSADOR**

**DIMMER 75-300 W PUSH-BUTTON**



- Regulación lineal mediante pulsador NA (No incluido)
- Voltaje: 220-240 VAC 50 Hz
- Potencia: MÍN. 75 W – MÁX. 300 W
- Medidas: 63 x 30 x 22 mm
- Para lámparas de incandescencia, halógenas o dicroicas

- *Linear regulation by NA push-button (Not included)*
- *Voltage: 220-240 VAC 50 Hz*
- *Power: Min. 75 W - Max. 300 W*
- *Measures: 63 x 30 x 22 mm*
- *For incandescent, halogen or dichroic lamps*

**Seleccione referencia**  
*Select reference*

**VARIADOR PARA TUBO DE NEÓN**  
**(modelo configurable)**

**NEON TUBE DIMMER**  
**(configurable model)**



Variador de intensidad lumínica sobre salidas directas a transformadores para tubos de NEÓN.

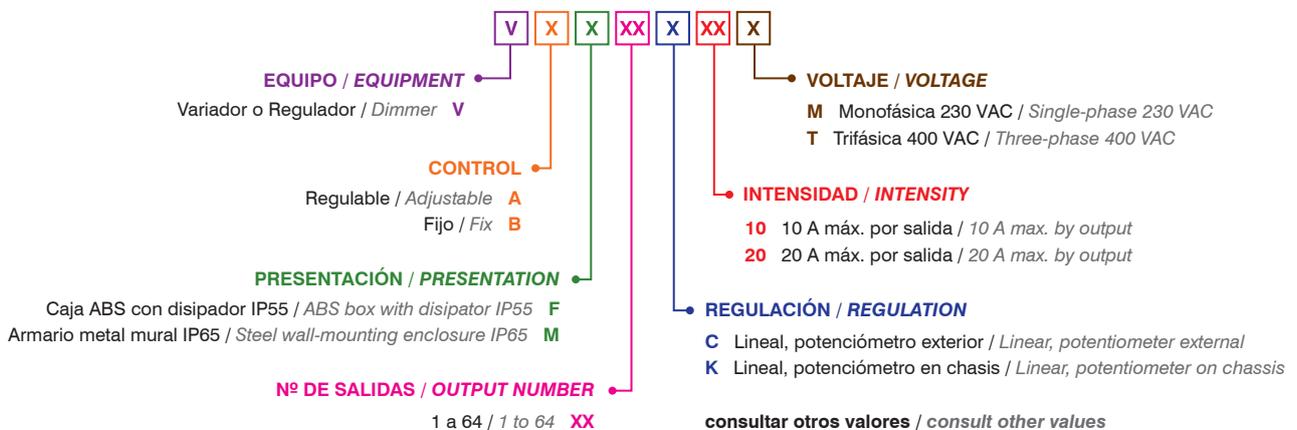
Equipo configurable en múltiples parámetros.

Utilice el árbol de referencias inferior para seleccionar la referencia del equipo según sus necesidades.

Variable light intensity on direct outputs to transformers for NEON tubes.

Equipment configurable in multiple parameters.

Use the lower reference tree to select the equipment reference according to your needs.



**Seleccione referencia**  
*Select reference*

**INTERMITENCIA PARA TUBO DE NEÓN**  
**(modelo configurable)**

**NEON TUBE FLASHING**  
**(configurable model)**



Intermitencia sobre salidas directas a transformadores para tubos de NEÓN.

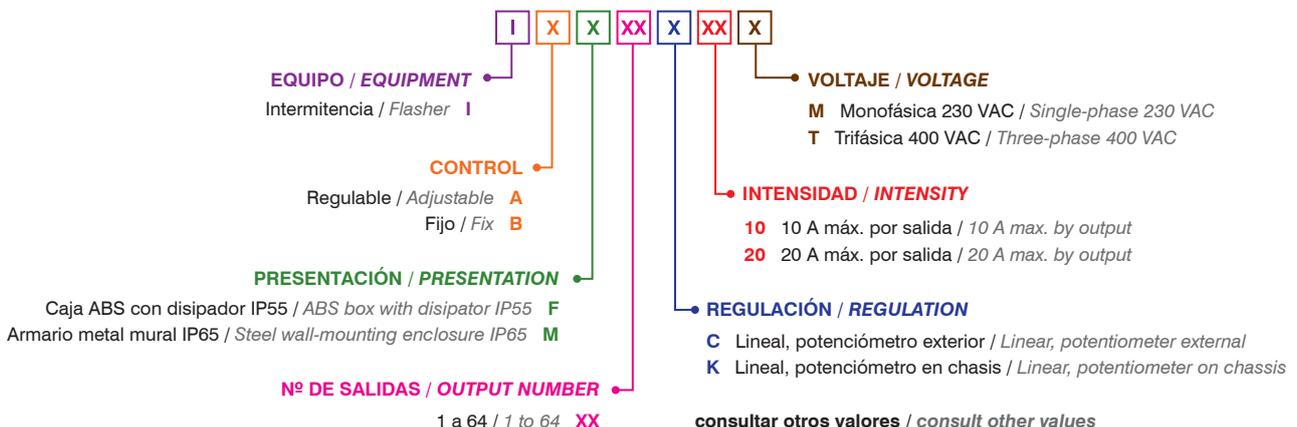
Equipo configurable en múltiples parámetros.

Utilice el árbol de referencias inferior para seleccionar la referencia del equipo según sus necesidades.

Flashing on direct outputs to transformers for NEON tubes.

Equipment configurable in multiple parameters.

Use the lower reference tree to select the equipment reference according to your needs.



**Seleccione referencia**  
*Select reference*

**CONTROLADOR PARA TUBO DE NEÓN (modelo configurable)**  
*NEON TUBE CONTROLLER (configurable model)*

Estos equipos ejecutan la programación pregrabada haciendo simulaciones de movimiento y/o variaciones de intensidad lumínica sobre salidas directas a transformadores para tubos de NEÓN.



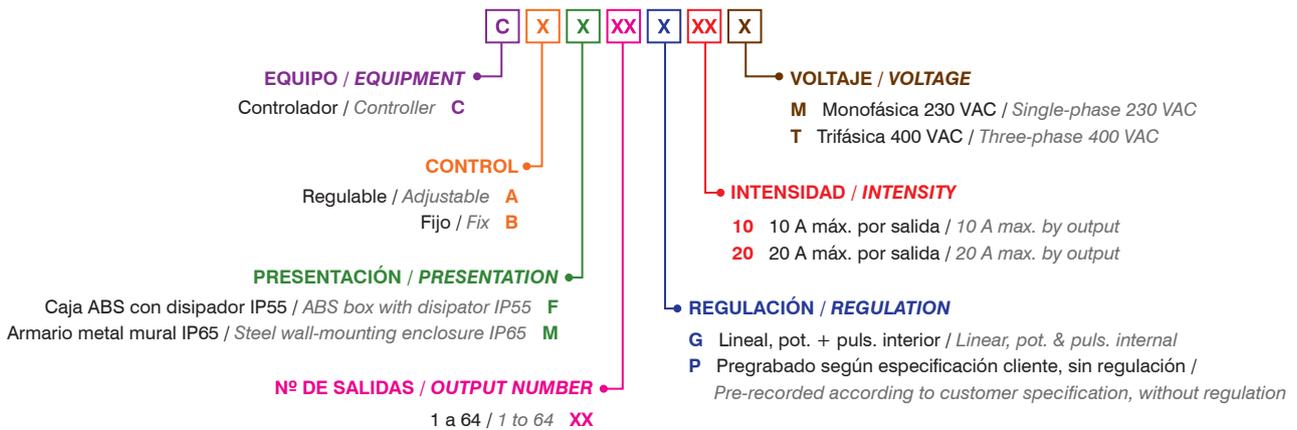
Existen múltiples parámetros de configuración.

Utilice el árbol de referencias inferior para seleccionar la referencia del equipo según sus necesidades.

*These equipments run the pre-recorded programming by making simulations of movement and / or variations in light intensity on direct outputs to transformers for NEON tubes.*

*There are multiple configuration parameters.*

*Use the lower reference tree to select the equipment reference according to your needs.*



consultar otros valores / consult other values

ver TABLA SIMULACIÓN DE MOVIMIENTOS / see MOTION SIMULATION TABLE



# TABLA DE SIMULACIÓN DE MOVIMIENTOS

## MOVEMENT SIMULATION TABLE

Referencias de secuencias de movimientos para simulaciones simples de movimientos básicos, apto para todos los controladores LED monocolor y NEON de la gama PANTRONIC.

Gráficos basados en un equipo de 5 salidas (columnas 1 a 5) donde cada fila es un paso de la secuencia.

Por ejemplo, deseamos un controlador que realice las secuencias siguientes:

Encendido progresivo derecha + Apagado progresivo izquierda + Reposo + Encendido progresivo izquierda + Apagado progresivo derecha + Reposo + Destello, lo que sería **EPD - API - REP - APD- REP - DES**

Motion sequence references for simple simulations of basic movements, suitable for all single-colour LED and NEON controllers in the PANTRONIC range.

Examples based on a five-output device (1 to 5 columns) where each row is a step of the sequence.

For example, we want a controller that performs the following sequences:

Progressive right on + Progressive left off + Sleep + Progressive left on + Progressive left right + Sleep + Flash, would be **EPD - API - REP - EPI - EPI - APD - REP - DES**

|               |  |   |  |   |  |
|---------------|--|---|--|---|--|
| Ref.          | <b>DES</b>                                 | <b>REP</b>                                | <b>ENC</b>                                 | <b>AL1</b>                                | <b>AL2</b>                               |
| Desc.         | Destello<br>Flash                          | Mantener apagado<br>Keep OFF              | Mantener encendido<br>Keep ON              | Alternativo 1<br>Alternative 1            | Alternativo 2<br>Alternative 2           |
| Start Step 1  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Step 2        | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Ref.          | <b>1ED</b>                                 | <b>1EI</b>                                | <b>1AD</b>                                 | <b>1AI</b>                                | <b>ECE</b>                               |
| Desc.         | 1 Encendido der.<br>1 Right ON             | 1 Encendido izq.<br>1 Left ON             | 1 Apagado der.<br>1 Right OFF              | 1 Apagado izq.<br>1 Left OFF              | Encendido Int. a Ext.<br>Int. to Ext. ON |
| Start Step 1  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 2  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 3  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 4  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 5  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Ref.          | <b>EPD</b>                                 | <b>EPI</b>                                | <b>APD</b>                                 | <b>API</b>                                | <b>EEC</b>                               |
| Desc.         | Enc. Progresivo der.<br>Staggered ON Right | Enc. Progresivo izq.<br>Staggered ON Left | Ap. Progresivo der.<br>Staggered OFF Right | Ap. Progresivo izq.<br>Staggered OFF Left | Encendido Ext. a Int.<br>Ext to Int. ON  |
| Start Step 1  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 2  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 3  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 4  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 5  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Ref.          | <b>1AD</b>                                 | <b>1AI</b>                                | <b>FLD</b>                                 | <b>DLI</b>                                | <b>INT</b>                               |
| Desc.         | 1 Acumulativo der.<br>Cumulative right ON  | 1 Acumulativo izq.<br>Cumulative left ON  | Destello derecha<br>Right flash            | Destello izquierda<br>Left flash          | Intermitencia<br>Flashing                |
| Start Step 1  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 2  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 3  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 4  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 5  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 6  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 7  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 8  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 9  | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 10 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 11 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 12 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 13 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 14 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |
| Start Step 15 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                  | 1 2 3 4 5                                 | 1 2 3 4 5                                |

# ACCESORIOS

## ACCESORIES



**Series 221**

**CONECTORES RÁPIDOS WAGO**

**WAGO QUICK CONNECTORS**



- **221-412:** Conector 2 vías
- **221-413:** Conector 3 vías
- **221-415:** Conector 5 vías
- Intensidad: 20 A máx.

- **221-412:** 2-way connector
- **221-413:** 3-way connector
- **221-415:** 5-way connector
- Intensity: 20 A max.

**623-206**

**CONECTOR RÁPIDO 2IN/6OUT**

**2IN/6OUT QUICK CONNECTOR**



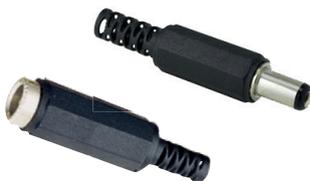
- Dos entradas y seis salidas en dos circuitos independientes
- Intensidad: 20 A máx.
- Medidas: 39 x 33 x 14 mm<sup>2</sup>
- Sección: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>

- Two inputs and six outputs on two independent circuits
- Intensity: 20 A max.
- Measures: 39 x 33 x 14 mm<sup>2</sup>
- Section: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>

**JACKM21A  
JACKF21A**

**CONEXIÓN AÉREA JACK MACHO IP20  
CONEXIÓN AÉREA JACK HEMBRA IP20**

**AERIAL CON. JACK MALE IP20  
AERIAL CON. JACK FEMALE IP20**



- Montaje: Aéreo
- Contacto:  $\varnothing 5.5 \times 9.5$  mm (Pin  $\varnothing 2.1$ )
- Voltaje: 12/24 VCC
- Intensidad: 5 A máx.
- Medidas M:  $\varnothing 10 \times 43$  mm
- Medidas F:  $\varnothing 11.8 \times 40$  mm
- Cables soldados a medida

- Assembly: Aerial
- Contact:  $\varnothing 5.5 \times 9.5$  mm (Pin  $\varnothing 2.1$ )
- Voltage: 12/24 VDC
- Intensity: 5 A max.
- Measures M:  $\varnothing 10 \times 43$  mm
- Measures F:  $\varnothing 11.8 \times 40$  mm
- Custom welded cables

**JACKF21PP**

**CON. ALIM. HEMBRA PANEL A PRESIÓN**

**FEMALE POWER CON. SNAP-ON PANEL**



- Montaje: Frontal a presión (espesor 1 a 1.8 mm)
- Contacto:  $\varnothing 5.6 \times 9.5$  mm (Pin  $\varnothing 2.1$ )
- Voltaje: 12/24 VCC
- Intensidad: 3 A máx.
- Medidas:  $\varnothing 12 \times 14.4$  mm
- Taladro:  $\varnothing 10.8 \times 9.8$  mm
- Cables soldados a medida

- Assembly: Snap-in front side (thickness 1 to 1.8 mm)
- Contact:  $\varnothing 5.6 \times 9.5$  mm (Pin  $\varnothing 2.1$ )
- Voltage: 12/24 VDC
- Intensity: 3 A max.
- Measures:  $\varnothing 12 \times 14.4$  mm
- Hole:  $\varnothing 10.8 \times 9.8$  mm
- Custom welded cables

**JACKF21PR**

**CON. ALIM. HEMBRA PANEL A ROSCA**

**FEMALE POWER CON. PANEL WITH NUT**



- Montaje: Frontal con tuerca (espesor 1 a 2.2 mm)
- Contacto:  $\varnothing 5.6 \times 9.5$  mm (Pin  $\varnothing 2.1$ )
- Voltaje: 12/24 VCC
- Intensidad: 5 A máx.
- Medidas:  $\varnothing 12.5 \times 27$  mm
- Taladro:  $\varnothing 11$  mm
- Cables soldados a medida

- Assembly: From side with nut (thickness 1 to 2.2 mm)
- Contact:  $\varnothing 5.6 \times 9.5$  mm (Pin  $\varnothing 2.1$ )
- Voltage: 12/24 VDC
- Intensity: 5 A max.
- Measures:  $\varnothing 12.5 \times 27$  mm
- Hole:  $\varnothing 11$  mm
- Custom welded cables

**JACKF21R**

**CON. ALIM. HEMBRA CHASIS**

**CHASSIS FEMALE POWER CONNECTOR**



- Montaje: Posterior con tuerca (espesor 1 a 2.2 mm)
- Contacto:  $\varnothing 5.6 \times 9.5$  mm (Pin  $\varnothing 2.1$ )
- Voltaje: 12/24 VCC
- Intensidad: 3 A máx.
- Medidas:  $\varnothing 11 \times 21$  mm
- Taladro:  $\varnothing 9$  mm
- Cables soldados a medida

- Assembly: Back side with nut (thickness 1 to 2.2 mm)
- Contact:  $\varnothing 5.6 \times 9.5$  mm (Pin  $\varnothing 2.1$ )
- Voltage: 12/24 VDC
- Intensity: 3 A max.
- Measures:  $\varnothing 11 \times 21$  mm
- Hole:  $\varnothing 9$  mm
- Custom welded cable

# CONECTORES CON CABLE

## WIRED CONNECTORS



### CONECTORES JACK INYECTADOS INJECTED JACK CONNECTORS

|  | REF.          | CONNECTOR  | A<br>Max.       | COLOR              | CABLE  | IP |
|--|---------------|--|-----------------|--------------------|--|----|
|  | M030N1XJF2XJF | Pin ø2.1<br>1 Hembra a 2 Hembras<br>1 Female to 2 Females                    |                 | NEGRO<br>BLACK     | 300 mm x 2 x 0.75 mm <sup>2</sup><br>300 mm x 2 x 0.75 mm <sup>2</sup>                         |    |
|  | M030N1XJM2XJF | Pin ø2.1<br>Macho a 2 Hembra<br>Male to 2 Female                             |                 |                    | 300 mm x 2 x 0.75 mm <sup>2</sup><br>300 mm x 2 x 0.75 mm <sup>2</sup>                         |    |
|  | M030N1XJF4XJM | Pin ø2.1<br>1 Hembra a 4 Macho<br>Female to 4 Male                           |                 |                    | 380 mm x 2 x 0.25 mm <sup>2</sup><br>380 mm x 2 x 0.25 mm <sup>2</sup>                         |    |
|  | P150NN05JFI10 | Pin ø2.1 Hembra<br>Female  |                 |                    | 1.5 mt x 2 x 0.5 mm <sup>2</sup><br>1.5 mt x 2 x 0.5 mm <sup>2</sup>                           |    |
|  | CONIP20F      | Pin ø2.1 Hembra<br>Female  |                 |                    | 300 mm (2 x 0.25 mm <sup>2</sup> rojo/negro)<br>300 mm (2 x 0.25 mm <sup>2</sup> red/black)    |    |
|  | CONIP20M      | Pin ø2.1 Macho<br>Male   |                 |                    |  |    |
|  | M150B107JMA03 | Pin ø2.1<br>90° Macho<br>90° Male  | 5               | BLANCO<br>WHITE    | 1.5 mt x 2 x 0.75 mm <sup>2</sup> rojo/blanco<br>1.5 mt x 2 x 0.75 mm <sup>2</sup> red/white   | 20 |
|  | M150N107JMA03 |  |                 | NEGRO<br>BLACK     | 1.5 mt x 2 x 0.75 mm <sup>2</sup> rojo/negro<br>1.5 mt x 2 x 0.75 mm <sup>2</sup> red/black    |    |
|  | M100B107JMA03 |  |                 | BLANCO<br>WHITE    | 1 mt x 2 x 0.75 mm <sup>2</sup> rojo/blanco<br>1 mt x 2 x 0.75 mm <sup>2</sup> red/white       |    |
|  | M100N107JMA03 |  |                 | NEGRO<br>BLACK     | 1 mt x 2 x 0.75 mm <sup>2</sup> rojo/negro<br>1 mt x 2 x 0.75 mm <sup>2</sup> red/black        |    |
|  | P150NN07JMB10 | Pin ø1.7<br>90° Macho<br>90° Male  |                 | NEGRO<br>BLACK     | 1.5 mt x 2 x 0.75 mm <sup>2</sup> negro/negro<br>1.5 mt x 2 x 0.75 mm <sup>2</sup> black/black |    |
|  | RZ01B103JMA03 | Jack M 90° Pin ø2.5<br>Pel./Est. 3 mm<br>Jack M 90° Pin ø2.5<br>Thinned 3 mm |                 | NEGRO<br>BLACK     | 420 mm 2 x 0.25 mm <sup>2</sup> redonda<br>420 mm 2 x 0.25 mm <sup>2</sup> round               |    |
|  | RZ01N103JMA03 |  | BLANCO<br>WHITE |                    |  |    |
|  | RZ02B103R4803 | Faston M4<br>Pel./Est. 3 mm<br>M4 Faston<br>Thinned 3 mm                     |                 |                    | 950 mm 2 x 0.25 mm <sup>2</sup> redonda<br>950 mm 2 x 0.25 mm <sup>2</sup> round               |    |
|  | RZ02N103R4803 |  |                 |                    |  |    |
|  | CONIP65F      | Pin ø2.1 Hembra<br>Female  |                 | TRANSP.<br>TRANSP. | 200 mm (2 x 0.25 mm <sup>2</sup> blanco/gris)<br>200 mm (2 x 0.25 mm <sup>2</sup> white/grey)  | 65 |
|  | CONIP65M      | Pin ø2.1 Macho<br>Male   |                 |                    |  |    |

# PULSADORES

## PUSHBUTTON



### PULSADOR DE PANEL CON TUERCA

### PANEL PUSHBUTTON WITH NUT



- TRN:** NEGRO con botón NEGRO
- TRR:** NEGRO con botón ROJO
- Montaje: Posterior con tuerca
- M5 x 0.75
- Valor: 470 K $\Omega$
- Eje:  $\varnothing$ 6 x 45 mm
- Taladro:  $\varnothing$ 5.1 (espesor 1 a 3 mm)

- TRN:** BLACK with BLACK button
- TRR:** BLACK with RED button
- Assembly: Back side with nut
- M5 x 0.75
- Value: 470 K $\Omega$
- Shaft:  $\varnothing$ 6 x 45 mm
- Hole:  $\varnothing$ 5.1 (thickness 1 to 3 mm)

### TRPN

### PULSADOR DE PANEL CON TUERCA

### PANEL PUSHBUTTON WITH NUT



- Color: NEGRO
- Montaje: Posterior con tuerca M5 x 0.75
- Circuito: 1 circuito abierto máx. 2 A / 250 VAC
- Medidas:  $\varnothing$ 7 x 21 mm
- Taladro:  $\varnothing$ 5.1 (espesor 1 a 3 mm)

- Color: BLACK
- Assembly: Back side with nut M5 x 0.75
- Circuit: SPST-NO (Open) máx. 2 A / 250 VAC
- Measures:  $\varnothing$ 7 x 21 mm
- Hole:  $\varnothing$ 5.1 (thickness 1 to 3 mm)

### TPMN

### PULSADOR DE PANEL A PRESIÓN

### PANEL PUSHBUTTON SNAP-IN



- Color: NEGRO
- Montaje: Frontal a presión
- Circuito: 1 circuito abierto máx. 1 A / 250 VAC
- Medidas:  $\varnothing$ 8 x 15 mm
- Taladro:  $\varnothing$ 8 (espesor 1 a 2 mm)

- Color: BLACK
- Assembly: Snap-in front side
- Circuit: SPST-NO (Open) máx. 1 A / 250 VAC
- Measures:  $\varnothing$ 8 x 15 mm
- Hole:  $\varnothing$ 8 (thickness 1 to 2 mm)

### PULSADOR DE PANEL A PRESIÓN

### PANEL PUSHBUTTON SNAP-IN



- TPB:** NEGRO con botón BLANCO
- TPN:** NEGRO con botón NEGRO
- TPR:** NEGRO con botón ROJO
- TPV:** NEGRO con botón VERDE

- Montaje: Frontal a presión
- Circuito: 1 circuito abierto máx. 2 A / 250 VAC
- Medidas:  $\varnothing$ 20 x 27.5 mm
- Taladro:  $\varnothing$ 18 (espesor 1 a 2 mm)

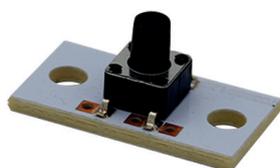
- TPB:** BLACK with WHITE button
- TPN:** BLACK with BLACK button
- TPR:** BLACK with RED button
- TPV:** BLACK with GREEN button

- Assembly: Snap-in front side
- Circuit: SPST-NO (Open) máx. 2 A / 250 VAC
- Measures:  $\varnothing$ 20 x 27.5 mm
- Hole:  $\varnothing$ 18 (thickness 1 to 2 mm)

### TCN + xx + yy + z

### PULSADOR A TORNILLO SOBRE BASE

### SCREW PUSHBUTTON ON BASE



- Montaje: Frontal a presión
- Circuito: 1 circuito abierto máx. 0,25 A / 24 VCC
- Medidas: 21.6 x 11.4 x XX (alto mm) XX (alto) = 5 a 13 mm (8 por defecto) YY = cm largo cable paralelo 2x0.5 mm<sup>2</sup> Z = salida cable F(Frontal) o L(Lateral)

- Assembly: Snap-in front side
- Circuit: SPST-ON (Open) máx. 0,25 A / 24 VDC
- Measures: 21.6 x 11.4 x XX (high) mm XX (high) = 5 to 13 mm (8 by default) YY = cm length parallel cable 2x0.5 mm<sup>2</sup> Z = cable out F(Frontal) or L(Lateral)

# PULSADORES / INTERRUPTORES ANTIVANDALICOS

VANDAL-RESISTANT PUSH BUTTONS / SWITCHES

## TPAM

### PULSADOR METAL DE PANEL CON TUERCA

### METAL PANEL PUSHBUTTON WITH NUT



#### TPAM121C2PGA

- Símbolo POWER iluminado LED azul
- Color: AL (anodizado natural)
- Montaje: Frontal con tuerca roscada
- Protección IP67
- Circuito: 1 circuito abierto
- Máx. 2 A / 36 VDC
- Medidas:  $\varnothing 14 \times 10$  mm
- Taladro de montaje:  $\varnothing 12$  mm

#### TPAM121C2PGA

- Power Blue LED illuminated ring
- Color: AL (natural anodized)
- Mounting: Front with threaded nut
- IP67 protection
- Circuit: 1 open circuit
- Max. 2 A / 36 VDC
- Measures:  $\varnothing 14 \times 10$  mm
- Mounting hole:  $\varnothing 12$  mm



#### TPAM121C2PG

- Color: AL (anodizado natural)
- Montaje: Frontal con tuerca roscada
- Protección IP67
- Circuito: 1 circuito abierto
- Máx. 2 A / 36 VDC
- Medidas:  $\varnothing 14 \times 16$  mm
- Taladro de montaje:  $\varnothing 12$  mm

#### TPAM121C2PG

- Color: AL (natural anodized)
- Mounting: Front with threaded nut
- IP67 protection
- Circuit: 1 open circuit
- Max. 2 A / 36 VDC
- Measures:  $\varnothing 14 \times 16$  mm
- Mounting hole:  $\varnothing 12$  mm



#### TPAM161C2PGA (AZUL) TPAM161C2PGB (BLANCO)

- Aro iluminado LED (A) azul (B) blanco
- Color: AL (anodizado natural)
- Montaje: Frontal con tuerca roscada
- Protección IP67
- Circuito: 1 circuito abierto
- Máx. 2 A / 36 VDC
- Medidas:  $\varnothing 18 \times 20$  mm
- Taladro de montaje:  $\varnothing 16$  mm

#### TPAM161C2PGA (BLUE) TPAM161C2PGB (WHITE)

- (A) blue (B) white LED illuminated ring
- Color: AL (natural anodized)
- Mounting: Front with threaded nut
- IP67 protection
- Circuit: 1 open circuit
- Max. 2 A / 36 VDC
- Measures:  $\varnothing 18 \times 20$  mm
- Mounting hole:  $\varnothing 16$  mm

## IAM

### INTERRUPTOR METAL DE PANEL CON TUERCA

### METAL PANEL SWITCH NUT



#### IAM121C2PGA

- Símbolo POWER iluminado LED azul
- Color: AL (anodizado natural)
- Montaje: Frontal con tuerca roscada
- Protección IP67
- Circuito: 1 circuito abierto
- Máx. 2 A / 36 VDC
- Medidas:  $\varnothing 14 \times 16$  mm
- Taladro de montaje:  $\varnothing 12$  mm

#### IAM121C2PGA

- POWER Blue LED illuminated ring
- Color: AL (natural anodized)
- Mounting: Front with threaded nut
- IP67 protection
- Circuit: 1 open circuit
- Max. 2 A / 36 VDC
- Measures:  $\varnothing 14 \times 16$  mm
- Mounting hole:  $\varnothing 12$  mm



#### IAM121C2PG

- Color: AL (anodizado natural)
- Montaje: Frontal con tuerca roscada
- Protección IP67
- Circuito: 1 circuito abierto
- Máx. 2 A / 36 VDC
- Medidas:  $\varnothing 14 \times 16$  mm
- Taladro de montaje:  $\varnothing 12$  mm

#### IAM121C2PG

- Color: AL (natural anodized)
- Mounting: Front with threaded nut
- IP67 protection
- Circuit: 1 open circuit
- Max. 2 A / 36 VDC
- Measures:  $\varnothing 14 \times 16$  mm
- Mounting hole:  $\varnothing 12$  mm

**IBM1C2PN**



**MINI INTERRUPTOR BASCULANTE**

- Color: NEGRO
- Montaje: Frontal a presión
- Circuito: 1 circ. 2 pos I/O
- A / V: máx. 3 A / 250 VAC
- Medidas: 15 x 10.5 x 11 mm
- Taladro: 14 x 9 (espesor 1 a 2 mm)

**MINI ROCKER SWITCH**

- Color: BLACK
- Assembly: Snap-in front side
- Circuit: SPDT
- A / V: max. 3 A / 250 VAC
- Measures: 15 x 10.5 x 11 mm
- Hole: 14 x 9 (thickness 1 to 2 mm)

**INTERRUPTOR BASCULANTE  
(Montaje frontal a presión)**



- IBP1C2PB:** 1C2P Blanco I/O  
**IBP1C2PN:** 1C2P Negro I/O  
**IBP1C3PN:** 1C3P Negro I/O//  
**IBP2C2PB:** 2C2P Blanco I/O  
**IBP2C2PN:** 2C2P Negro I/O
- A / V: máx. 3 A / 250 VAC
  - Medidas: 21 x 15 x 13.5 mm
  - Taladro: 20 x 13 (espesor 1 a 2 mm)

- IBG2C2PN:** 2C2P Negro I/O
- A / V: máx. 16 A / 250 VAC
  - Medidas: 32 x 26 x 31 mm
  - Taladro: 30 x 22 (espesor 1 a 2 mm)

- IBR1C2PN:** 1C2P Redondo Negro
- A / V: máx. 6 A / 250 VAC
  - Medidas:  $\varnothing 23$  x 17 mm
  - Taladro:  $\varnothing 20$  (espesor 1 a 2 mm)

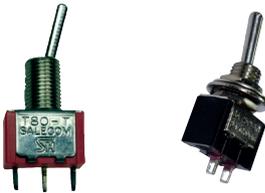
**ROCKER SWITCH  
(Snap-in front side assembly)**

- IBP1C2PB:** SPDT White I/O  
**IBP1C2PN:** SPDT Black I/O  
**IBP1C3PN:** SPTT Black I/O//  
**IBP2C2PB:** DPDT White I/O  
**IBP2C2PN:** DPDT Black I/O
- A / V: max. 3 A / 250 VAC
  - Measures: 21 x 15 x 13.5 mm
  - Hole: 20 x 13 (thickness 1 to 2 mm)

- IBG2C2PN:** DPDT Black I/O
- A / V: max. 16 A / 250 VAC
  - Measures: 32 x 26 x 31 mm
  - Hole: 30 x 22 (thickness 1 to 2 mm)

- IBR1C2PN:** SPDT Round Black
- A / V: max. 6 A / 250 VAC
  - Measures:  $\varnothing 23$  x 17 mm
  - Hole:  $\varnothing 20$  (thickness 1 to 2 mm)

**INTERRUPTOR DE PALANCA**



- IPP1C2PN:** 1C2P Negro  
**IPP1C2PR:** 1C2P Rojo  
**IPP1C3PN:** 1C3P Negro  
**IPP1C3PR:** 1C3P Rojo
- Montaje: Posterior con tuerca
  - A / V: máx. 2.5 A / 250 VAC
  - Medidas: 13 x 8 x 9 (+19) mm
  - Taladro:  $\varnothing 6$  (espesor 1 a 4 mm)

**TOGGLE SWITCH**

- IPP1C2PN:** SPDT Black  
**IPP1C2PR:** SPDT Red  
**IPP1C3PN:** SPTT Black  
**IPP1C3PR:** SPTT Red
- Assembly: Back side with nut
  - A / V: max. 2.5 A / 250 VAC
  - Measures: 13 x 8 x 9 (+19) mm
  - Hole:  $\varnothing 6$  (thickness 1 a 4 mm)

**PTI**



**POTENCIÓMETRO CON INTERRUPTOR**

- Color: NEGRO
- Montaje: Posterior con tuerca M10 x 0.75
- Valor: 470 K $\Omega$
- Material: UL94-V0
- Eje:  $\varnothing 6$  x 45 mm
- Taladro:  $\varnothing 10.5$  (espesor 1 a 5 mm)

**POTENTIOMETER WITH SWITCH**

- Color: BLACK
- Assembly: Back side with nut M10 x 0.75
- Value: 470 K $\Omega$
- Material: UL94-V0
- Shaft:  $\varnothing 6$  x 45 mm
- Hole:  $\varnothing 10.5$  (thickness 1 to 5 mm)

**BOTONES ABS**



- 071906** - Color: NEGRO  
**071907** - Color: ORO BRILLO  
**071908** - Color: BLANCO  
**071928** - Color: NÍQUEL MATE  
**071929** - Color: ORO MATE

- Medidas:  $\varnothing 19$  x 15 mm
- Cojinete de latón para eje  $\varnothing 6$ mm
- Tornillo de sujeción

**ABS BUTTONS**

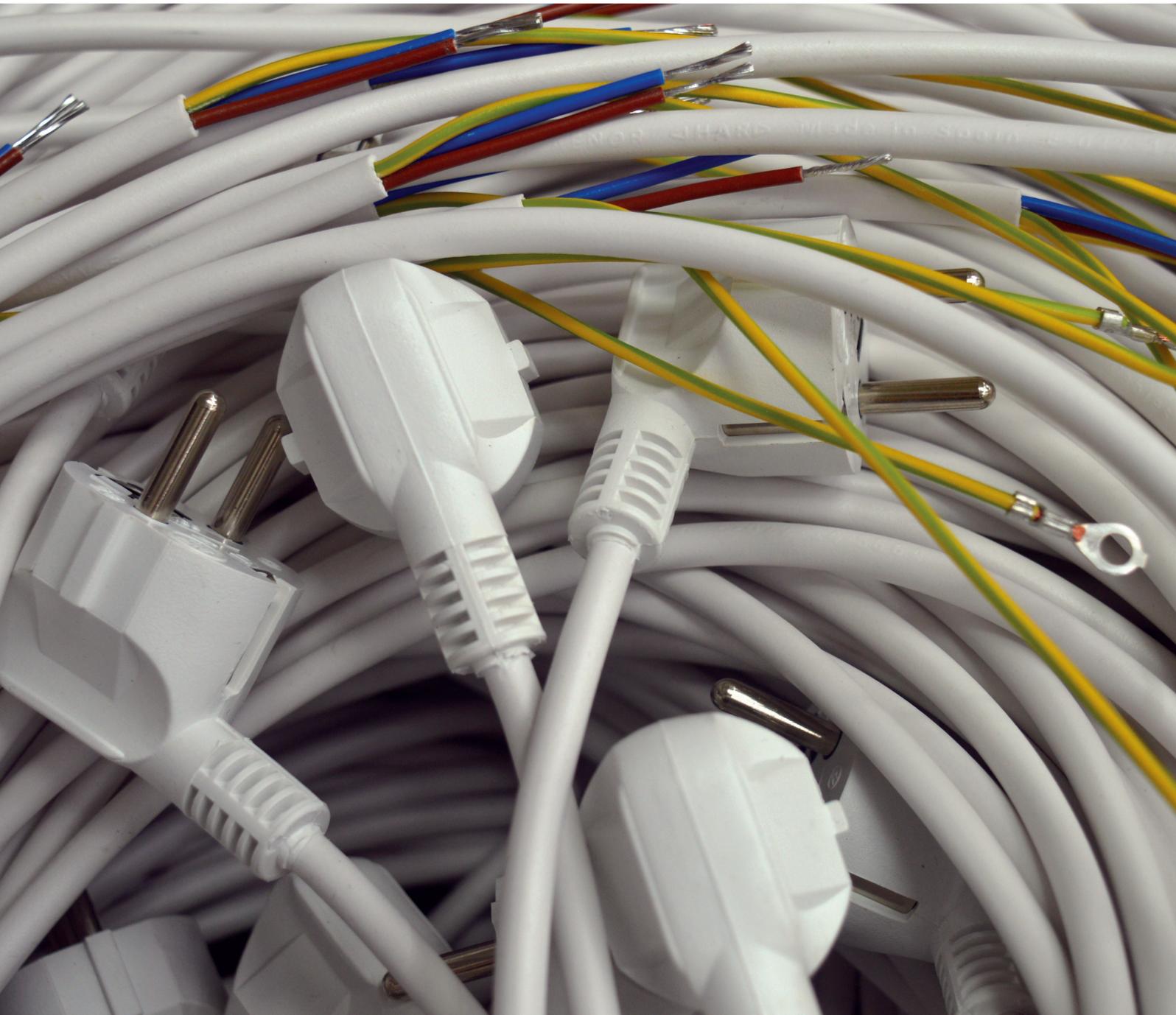
- 071906** - Color: BLACK  
**071907** - Color: GLOSSY GOLD  
**071908** - Color: WHITE  
**071928** - Color: MATTE NICKEL  
**071929** - Color: MATTE GOLD

- Measures:  $\varnothing 19$  x 15 mm
- Brass bearing for  $\varnothing 6$ mm shaft
- Clamping screw

BOEL-TRONIC

# CABLES Y CLAVIJAS

CABLE & PLUGS



# CLAVIJAS

## PLUGS



|   | REF.          | TIPO<br>TYPE                    | ÁNGULO<br>ANGLE | COLOR                           | MTS | SECCIÓN<br>SECTION       | CERT.   |                          |   |
|---|---------------|---------------------------------|-----------------|---------------------------------|-----|--------------------------|---|--------------------------|---|
|    | M200B04MF9910 | MACHO<br>E + F<br>PLUG<br>E + F | 90°             | Blanco<br>White                 | 2   | 3 x 0.75 mm <sup>2</sup> |    |                          |   |
|   | M300B04MF9910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500B04MF9910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|   | M200N04MF9910 |                                 |                 | Negro<br>Black                  | 2   |                          |   |                          |   |
|   | M300N04MF9910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500N04MF9910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|   | M200B06MF9910 |                                 |                 | MACHO<br>E + F<br>PLUG<br>E + F | 90° | Blanco<br>White          | 2   | 3 x 1.50 mm <sup>2</sup> |  |
|   | M300B06MF9910 |                                 |                 |                                 |     |                          | 3   |                          |   |
|   | M500B06MF9910 |                                 |                 |                                 |     |                          | 5   |                          |   |
|   | M200N06MF9910 |                                 |                 |                                 |     | Negro<br>Black           | 2   |                          |   |
|   | M300N06MF9910 |                                 |                 |                                 |     |                          | 3   |                          |   |
|   | M500N06MF9910 |                                 |                 |                                 |     |                          | 5   |                          |   |
|  | M200B06MB0910 | MACHO<br>B<br>PLUG<br>B         | 0°              | Blanco<br>White                 | 2   | 3 x 1.50 mm <sup>2</sup> |  |                          |   |
|   | M300B06MB0910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500B06MB0910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|   | M200N06MB0910 |                                 |                 | Negro<br>Black                  | 2   |                          |   |                          |   |
|   | M300N06MB0910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500N06MB0910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|  | M200B06MK9910 | MACHO<br>K<br>PLUG<br>K         | 90°             | Blanco<br>White                 | 2   | 3 x 1.50 mm <sup>2</sup> |  |                          |   |
|   | M300B06MK9910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500B06MK9910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|   | M200N06MK9910 |                                 |                 | Negro<br>Black                  | 2   |                          |   |                          |   |
|   | M300N06MK9910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500N06MK9910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|  | M200B06MM9910 | MACHO<br>M<br>PLUG<br>M         | 90°             | Blanco<br>White                 | 2   | 3 x 1.50 mm <sup>2</sup> |  |                          |   |
|   | M300B06MM9910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500B06MM9910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|   | M200N06MM9910 |                                 |                 | Negro<br>Black                  | 2   |                          |   |                          |   |
|   | M300N06MM9910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500N06MM9910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|  | M200B04MI0910 | MACHO<br>I<br>PLUG<br>I         | 0°              | Blanco<br>White                 | 2   | 3 x 0.75 mm <sup>2</sup> |  |                          |   |
|   | M300B04MI0910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500B04MI0910 |                                 |                 |                                 | 5   |                          |   |                          |   |
|   | M200N04MI0910 |                                 |                 | Negro<br>Black                  | 2   |                          |   |                          |   |
|   | M300N04MI0910 |                                 |                 |                                 | 3   |                          |   |                          |   |
|   | M500N04MI0910 |                                 |                 |                                 | 5   |                          |   |                          |   |

Otros modelos consultar / Other models consult

# CABLEADO POLARIZADO PARA LEDS Y ACCESORIOS

CUSTOMIZED WIRED



| CÓDIGO<br>CODE | DESCRIPCIÓN<br>DESCRIPTION  |  |
|----------------|---|--|
| P100BG05XAF03  | JST-XAF (BL) + 100 cm 2x0.5 BL/GR LH UL P/E 3 mm<br>JST-XAF (WHT) + 100 cm 2x0.5 WHT/GRY LH UL TINNED 3 mm                        |  |
| P100RN05XAF03  | JST-XAF (BL) + 100 cm 2x0.5 RJ/NG LH UL P/E 3 mm<br>JST-XAF (WHT) + 100 cm 2x0.5 RED/BLK LH UL TINNED 3 mm                        |  |
| P100NN05XAF03  | JST-XAF (BL) + 100 cm 2x0.5 NG/NG LH UL P/E 3 mm<br>JST-XAF (WHT) + 100 cm 2x0.5 BLK/BLK LH UL TINNED 3 mm                        |  |
| P100BG05XNF03  | JST-XAF (NG) + 100 cm 2x0.5 BL/GR LH UL P/E 3 mm<br>JST-XAF (BLK) + 100 cm 2x0.5 WHT/GRY LH UL TINNED 3 mm                        |  |
| P100RN05XNF03  | JST-XAF (NG) + 100 cm 2x0.5 RJ/NG LH UL P/E 3 mm<br>JST-XAF (BLK) + 100 cm 2x0.5 RED/BLK LH UL TINNED 3 mm                        |  |
| P100NN05XNF03  | JST-XAF (NG) + 100 cm 2x0.5 NG/NG LH UL P/E 3 mm<br>JST-XAF (BLK) + 100 cm 2x0.5 BLK/BLK LH UL TINNED 3 mm                        |  |
| P100BG05XAM03  | JST-XAM (BL) + 100 cm 2x0.5 BL/GR LH UL P/E 3 mm<br>JST-XAM (WHT) + 100 cm 2x0.5 WHT/GRY LH UL TINNED 3 mm                        |  |
| P100RN05XAM03  | JST-XAM (BL) + 100 cm 2x0.5 RJ/NG LH UL P/E 3 mm<br>JST-XAM (WHT) + 100 cm 2x0.5 RED/BLK LH UL TINNED 3 mm                        |  |
| P100NN05XAM03  | JST-XAM (BL) + 100 cm 2x0.5 NG/NG LH UL P/E 3 mm<br>JST-XAM (WHT) + 100 cm 2x0.5 BLK/BLK LH UL TINNED 3 mm                        |  |
| P100BG05XNM03  | JST-XAM (NG) + 100 cm 2x0.5 BL/GR LH UL P/E 3 mm<br>JST-XAM (BLK) + 100 cm 2x0.5 WHT/GRY LH UL TINNED 3 mm                        |  |
| P100RN05XNM03  | JST-XAM (NG) + 100 cm 2x0.5 RJ/NG LH UL P/E 3 mm<br>JST-XAM (BLK) + 100 cm 2x0.5 RED/BLK LH UL TINNED 3 mm                        |  |
| P100NN05XNM03  | JST-XAM (NG) + 100 cm 2x0.5 NG/NG LH UL P/E 3 mm<br>JST-XAM (BLK) + 100 cm 2x0.5 BLK/BLK LH UL TINNED 3 mm                        |  |
| P100BG05XHB03  | JST-XHF (BL) + 100 cm 2x0.5 BL/GR LH UL P/E 3 mm<br>JST-XHF (WHT) + 100CM 2x0.5 WHT/GRY LH UL TINNED 3 mm                         |  |
| P100RN05XHB03  | JST-XHF (BL) + 100 cm 2x0.5 RJ/NG LH UL P/E 3 mm<br>JST-XHF (WHT) + 100 cm 2x0.5 RED/BLK LH UL TINNED 3 mm                        |  |
| P100NN05XHB03  | JST-XHF (BL) + 100 cm 2x0.5 NG/NG LH UL P/E 3 mm<br>JST-XHF (WHT) + 100 cm 2x0.5 BLK/BLK LH UL TINNED 3 mm                        |  |
| P100BG05XHN03  | JST-XHF (NG) + 100 cm 2x0.5 BL/GR LH UL P/E 3 mm<br>JST-XHF (BLK) + 100 cm 2x0.5 WHT/GRY LH UL TINNED 3 mm                        |  |
| P100RN05XHN03  | JST-XHF (NG) + 100 cm 2x0.5 RJ/NG LH UL P/E 3 mm<br>JST-XHF (BLK) + 100 cm 2x0.5 RED/BLK LH UL TINNED 3 mm                        |  |
| P100NN05XHN03  | JST-XHF (NG) + 100 cm 2x0.5 NG/NG LH UL P/E 3 mm<br>JST-XHF (BLK) + 100CM 2x0.5 BLK/BLK LH UL TINNED 3 mm                         |  |
| O100N023XF103  | JST-XAF (BL) + 100 cm MG PL. NG 3x0.25 P/E 3 mm<br>JST-XAF (WHT) + 100 cm FLAT CABLE BLK 3x0.25 TINNED 3 mm                       |  |
| O100B132XF103  | JST-XAF (BL) + 100 cm MG PL. BL 4x0.5 RGB P/E 3 mm<br>JST-XAF (WHT) + 100 cm FLAT CABLE WHT 4x0.5 RGB TINNED 3 mm                 |  |
| M100B142XF103  | JST-XAF (BL) + 100 cm MG RD BL 3x0.25+2x0.5MM RGB+W P/E 3 mm<br>JST-XAF (WHT) + 100 cm ROUND CABLE WHT 5x0.25MM RGB+W TINNED 3 mm |  |

OTRAS LONGITUDES, SECCIONES Y TERMINALES, CONSULTAR  
OTHER LENGTHS, CROSS-SECTIONS AND TERMINALS ON REQUEST

# CRIMPADO DE TERMINALES BAJO PEDIDO

CRIMPING OF TERMINALS ON REQUEST



Realizamos un crimpado preciso y de alta calidad de diferentes terminales, siguiendo las indicaciones de nuestros clientes.

- Corte y desforrado de mangueras
- Corte, pelado y estañado de cables unifilares y paralelos de varias secciones
- Crimpado de multitud de tipos de terminales

*We carry out precise, high-quality crimping of different terminals, following the instructions of our clients.*

- *Cutting & stripping multi-core cables*
- *Cutting, stripping and tinning single-core and parallels cables of different sections*
- *Crimp of many types of terminals*

## Ejemplos de terminales / Example terminals

**TERMINAL REDONDO M3**  
**M3 ROUND TERMINAL**



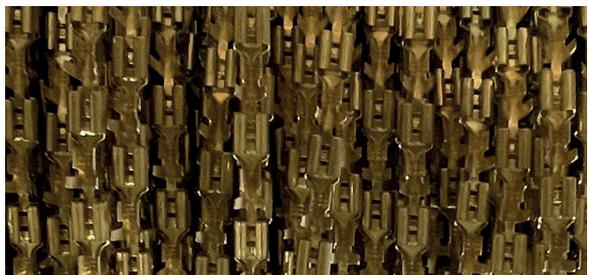
**TERMINAL REDONDO M4**  
**M4 ROUND TERMINAL**



**TERMINAL FASTON HEMBRA 4.8.5**  
**FASTON TERMINAL FEMALE 4.8.5**



**TERMINAL FASTON HEMBRA 4.8.8**  
**FASTON TERMINAL FEMALE 4.8.8**



**TERMINAL FASTON MACHO 6.35**  
**FASTON TERMINAL MALE 6.35**

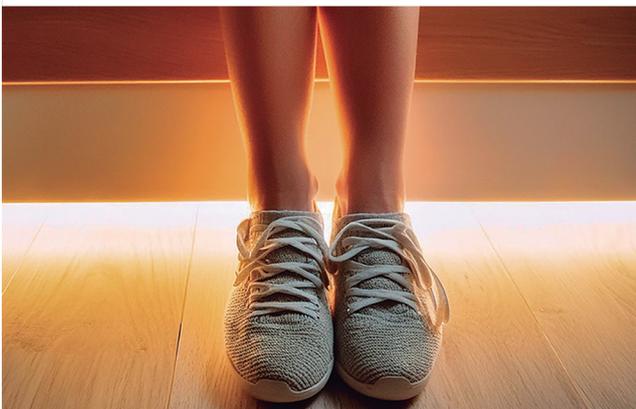


**TERMINAL FASTON HEMBRA 6.35**  
**FASTON TERMINAL FEMALE 6.35**



# KITS DE ILUMINACIÓN

## LIGHTING KITS



# KIT ILUMINACIÓN BAJO MUEBLE

## UNDER FURNITURE LIGHTING KIT

12/24 <sup>VCC</sup>  
<sup>VDC</sup>



Agrega iluminación funcional y decorativa debajo de módulos de cocina, estantes y otros muebles.  
Opcional: Dimmer táctil para que enciendas/apagues y regules la intensidad de luz.  
En 12Vcc disponible para conectar a **batería Li-Ion**, sin necesidad de toma de corriente eléctrica.

*Add functional and decorative lighting under kitchen units, shelves and other furniture.*

*Optional: Touch dimmer to turn on/off and dim the light intensity.*

*In 12Vdc available for connection to a **Li-Ion battery**, without the need for a mains socket.*

| CÓDIGO<br>CODE | PERFIL LED<br>LED PROFILE | ALUMINIO<br>ALUMINIUM | CM  | VCC<br>VDC  | 12W/M | DIMMER                     | °K           |
|----------------|---------------------------|-----------------------|-----|-------------|-------|----------------------------|--------------|
|                |                           | W<br>N/B/G            |     | XX<br>12/24 |       | Y<br>W/D                   | Z<br>X/C/N/F |
| 1707W030XXYZ   | <b>PAS1707</b><br><br>    | <br><br><br><br>      | 030 | 12<br>24    | 3     | W= Sin dimmer<br>D= Dimmer | <br><br><br> |
| 1707W040XXYZ   |                           |                       | 040 |             | 4,2   |                            |              |
| 1707W050XXYZ   |                           |                       | 050 |             | 5,4   |                            |              |
| 1707W060XXYZ   |                           |                       | 060 |             | 6,6   |                            |              |
| 1707W070XXYZ   |                           |                       | 070 |             | 7,8   |                            |              |
| 1707W080XXYZ   |                           |                       | 080 |             | 9     |                            |              |
| 1707W090XXYZ   |                           |                       | 090 |             | 10,2  |                            |              |
| 1707W100XXYZ   |                           |                       | 100 |             | 11,4  |                            |              |
| 1707W110XXYZ   |                           |                       | 110 |             | 12,6  |                            |              |
| 1707W120XXYZ   |                           |                       | 120 |             | 13,8  |                            |              |
| 1818W030XXYZ   | <b>PAC1818</b><br><br>    | <br><br><br><br>      | 030 | 12<br>24    | 3     | W= Sin dimmer<br>D= Dimmer | <br><br><br> |
| 1818W040XXYZ   |                           |                       | 040 |             | 4,2   |                            |              |
| 1818W050XXYZ   |                           |                       | 050 |             | 5,4   |                            |              |
| 1818W060XXYZ   |                           |                       | 060 |             | 6,6   |                            |              |
| 1818W070XXYZ   |                           |                       | 070 |             | 7,8   |                            |              |
| 1818W080XXYZ   |                           |                       | 080 |             | 9     |                            |              |
| 1818W090XXYZ   |                           |                       | 090 |             | 10,2  |                            |              |
| 1818W100XXYZ   |                           |                       | 100 |             | 11,4  |                            |              |
| 1818W110XXYZ   |                           |                       | 110 |             | 12,6  |                            |              |
| 1818W120XXYZ   |                           |                       | 120 |             | 13,8  |                            |              |

FUENTE DE ALIMENTACIÓN O BATERÍA NO INCLUIDA.  
POWER SUPPLY OR BATTERY NOT INCLUDED.

# KIT ILUMINACIÓN SENSOR PUERTA/CAJÓN

## DOOR/DRAWER SENSOR LIGHTING KIT

12/24 VCC  
VDC



La barra de led con sensor de puerta garantiza que la iluminación se activa solo cuando es necesario. La luz se apaga automáticamente cuando se cierra la puerta.

Facilita la búsqueda de objetos dentro del armario y/o cajón, al proporcionar una iluminación instantánea cuando se abre la puerta, mejorando la comodidad.

Personaliza la longitud y el color de la tira de LED según tus preferencias y el diseño del armario.

Lo puedes adaptar a tus necesidades específicas, conectando la fuente de alimentación a una toma de corriente existente o instalando una batería externa (**Opción disponible sólo a 12VCC**).

*The led bar with door sensor ensures that the lighting is only activated when necessary. The light is automatically switched off when the door is closed.*

*Makes it easier to find objects inside the cabinet and/or drawer by providing instant illumination when the door is opened, improving convenience.*

*Customize the length and colour of the LED strip according to your preferences and the design of the cabinet.*

*You can adapt it to your specific needs by connecting the power supply to the existing power socket or by installing an external battery (**Option available only at 12VDC**).*

| CÓDIGO<br>CODE | PERFIL LED<br>LED PROFILE | ALUMINIO<br>ALUMINIUM   | CM         | VCC<br>VDC  | 4.8W/M | POS/Nº SENSOR | SENSOR | °K           |
|----------------|---------------------------|---|------------|-------------|--------|---------------|--------|--------------|
|                |                           |   | W<br>N/B/G | XX<br>12/24 |        | Y<br>W/D/I/2  |        | Z<br>X/C/N/F |
| 1212W030XXYSZ  | <p>PAS1212</p>            | <div style="border: 1px solid black; padding: 5px; text-align: center; width: 30px; height: 30px; margin: 5px;">N</div> <div style="border: 1px solid black; padding: 5px; text-align: center; width: 30px; height: 30px; margin: 5px;">B</div> <div style="border: 1px solid black; padding: 5px; text-align: center; width: 30px; height: 30px; margin: 5px;">G</div> | 030        |             | 1,2    |               | S      |              |
| 1212W040XXYSZ  |                           |   | 040        |             | 1,68   |               |        |              |
| 1212W050XXYSZ  |                           |   | 050        |             | 2,16   |               |        |              |
| 1212W060XXYSZ  |                           |   | 060        |             | 2,64   |               |        |              |
| 1212W070XXYSZ  |                           |   | 070        | 12          | 3,12   |               |        |              |
| 1212W080XXYSZ  |                           |   | 080        | 24          | 3,6    |               |        |              |
| 1212W090XXYSZ  |                           |   | 090        |             | 4,08   |               |        |              |
| 1212W100XXYSZ  |                           |   | 100        |             | 4,56   |               |        |              |
| 1212W110XXYSZ  |                           |   | 110        |             | 5,04   |               |        |              |
| 1212W120XXYSZ  |                           |   | 120        |             | 13,8   |               |        |              |

W= Sin/Whitout sensor  
D= Derecha/Right  
I= Izquierda/Left  
2= 2 sensors

**X=2700K**  
**C=3000K**  
**N=4000K**  
**F=6000K**

FUENTE DE ALIMENTACIÓN O BATERÍA NO INCLUIDA.  
POWER SUPPLY OR BATTERY NOT INCLUDED.

## LÁMINA ANTIVAHO PARA ESPEJOS MIRROR DEFOGGER



Evita que el vapor empañe tu espejo tras la ducha. Funciona a 12VDC  
*Prevents steam from fogging up your mirror after showering. Works with 12VCC*

### REF. VH30X4012VDC

- Desempañador de espejos
- Film PET con resistencia térmica integrada
- Voltaje: 12VDC
- Dimensiones: 300 x 400 mm
- Potencia: 24W
- T° de Trabajo: +5° a +50°
- Personalizable bajo pedido

### REF. VH30X4012VDC

- Mirror defogger
- PET film with integrated heat resistor
- Voltage: 12VDC
- Dimensions: 300 x 400 mm
- Power: 24W
- Working temperature: +5° to +50°C
- customizable upon request

## KIT DE AUDIO BLUETOOTH BLUETOOTH AUDIO KIT



Con conexión Bluetooth, reproduce música o podcasts desde tu smartphone  
*With Bluetooth connection, play music or podcasts from your smartphone*

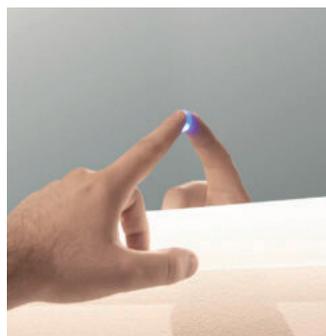
### REF. KCSB717127N

- Bluetooth 5.0 - Alcance: hasta 10 mt.
- Alimentación: 12VDC
- Estéreo 2 x 5W
- Potencia máx.: 15W
- Encendido/apagado automático con el espejo o independiente

### REF. KCSB717127N

- Bluetooth 5.0 - Range: up to 10 meters.
- Power: 12VDC
- 2 x 5W stereo
- Max power: 15W
- Automatic on/off with the mirror or independently

## TOUCH SENSOR PARA ESPEJO + DIMMER MIRROR TOUCH SWITCH ON/OFF + DIMMING



Integra en un solo componente el control de encendido/apagado y dimmer  
*Integrates on/off and dimmer control into a single component*

### REF. 2901M

- Interruptor TÁCTIL para ESPEJO.
- Dimmer
- Salidas: 1 canal
- Voltaje: 12/24VCC
- Intensidad: 4 A máx.
- Medidas: 26 x 28 x 7 mm
- Espesor del espejo: ≤ 5 mm

### REF. 2901M

- ON/OFF switch MIRROR
- Dimmer
- Outputs: 1 channel
- Voltage: 12/24VDC
- Intensity: 4 A max.
- Measures: 26 x 28 x 7 mm
- Thickness of mirror: ≤ 5 mm

## TOUCH SENSOR PARA ESPEJO + DIMMER + ANTIVAHO MIRROR TOUCH SWITCH ON/OFF + DIMMING + ON/OFF DEFOGGER



Touch Sensor 3 en 1: On/Off, dimmer y activación del antivaho  
*3-in-1 Touch Sensor: On/Off, dimmer and defogger activation*

### REF. 2901MD

- Interruptor y regulador táctil.
- Interruptor On/Off de lámina antivaho
- Salidas: 1 canal
- Voltaje: 12/24VCC
- Intensidad: 4 A máx.
- Medidas: 113 x 40 x 12 mm
- Espesor del espejo: ≤ 5 mm

### REF. 2901MD

- Touch switch and dimmer
- On/Off switch with anti-fog film
- Outputs: 1 channel
- Voltage: 12/24VDC
- Intensity: 4 A max.
- Measures: 113 x 40 x 12 mm
- Thickness of mirror: ≤ 5 mm

# KIT ILUMINACIÓN BAJO CAMA CON SENSOR

LED LIGHTING KIT UNDER BED WITH SENSOR

12 VCC  
VDC



**SENSOR DE MOVIMIENTO Y CREPUSCULAR**  
MOTION AND TWILIGHT SENSOR

¡Disfruta de tu iluminación LED automática!

Al disponer de sensor crepuscular + sensor de movimiento, permite el encendido/apagado dependiendo de la luz ambiental y de la detección del movimiento.

Es una solución práctica y útil para proporcionar una confortable y suave iluminación durante la noche sin necesidad de encender luces brillantes o molestas

### Características:

- Fuente de alimentación 230Vac/12Vcc EURO PLUG o **batería de Li-Ion recargable**
- Conector rápido
- 1 ó 2 perfiles de led de 30cm con 150cm de cable, cinta imantada, grapas y abrazaderas

Enjoy your automatic LED lighting!

As it has a twilight sensor + motion sensor, it allows on/off depending on ambient light and motion detection. Is a practical and useful solution to provide comfortable and soft lighting during the night without the need to turn on bright or annoying lights.

### Features:

- EURO PLUG 230Vac/12Vdc power supply or **Li-Ion battery rechargeable**
- Quick connector
- 1 or 2 x 30cm LED bars with 150cm cable, magnetic tape, clips and clamps

| CÓDIGO<br>CODE                  | ALUMINIO<br>ALUMINIUM | CM | VCC<br>VDC | W   | ENERGÍA<br>ENERGY                   | SENSOR<br>S | °K    |  |  |
|---------------------------------|-----------------------|----|------------|-----|-------------------------------------|-------------|-------|--|--|
|                                 | <b>W</b><br>N/B/G     |    |            |     | <b>X</b><br>R/B                     |             |       |  |  |
| 1707 <b>W</b> 13012 <b>X</b> SC | <b>N</b>              | 30 | 12         | 1,2 | <b>R</b> =FUENTE ALIM.<br>POWER SUP |             | 3000  |  |  |
| 1707 <b>W</b> 13012 <b>X</b> SN |                       |    |            |     |                                     |             | 4000  |  |  |
| 1707 <b>W</b> 13012 <b>X</b> SF |                       |    |            |     |                                     |             | 6000  |  |  |
| 1707 <b>W</b> 13012 <b>X</b> SR |                       |    |            |     |                                     |             | ROJO  |  |  |
| 1707 <b>W</b> 13012 <b>X</b> SV |                       |    |            |     |                                     |             | VERDE |  |  |
| 1707 <b>W</b> 13012 <b>X</b> SA |                       |    |            |     |                                     |             | AZUL  |  |  |
| 1707 <b>W</b> 23012 <b>X</b> SC | <b>N</b>              | 30 | 12         | 1,2 | <b>R</b> =FUENTE ALIM.<br>POWER SUP |             | 3000  |  |  |
| 1707 <b>W</b> 23012 <b>X</b> SN |                       |    |            |     |                                     |             | 4000  |  |  |
| 1707 <b>W</b> 23012 <b>X</b> SF |                       |    |            |     |                                     |             | 6000  |  |  |
| 1707 <b>W</b> 23012 <b>X</b> SR |                       |    |            |     |                                     |             | ROJO  |  |  |
| 1707 <b>W</b> 23012 <b>X</b> SV |                       |    |            |     |                                     |             | VERDE |  |  |
| 1707 <b>W</b> 23012 <b>X</b> SA |                       |    |            |     |                                     |             | AZUL  |  |  |

# KIT ILUMINACIÓN BARRA DE ARMARIO

## CABINET BAR LIGHTING KIT

12/24 VCC  
VDC



Solución elegante y funcional para mejorar la visibilidad y el atractivo visual de tu armario.

### Opciones:

- **Batería de Li-Ion:** Ilumina tu armario sin necesidad de instalación eléctrica. Estas baterías son de larga duración y fácilmente recargables (Cargador incluido en el kit)
- **Sensor de movimiento y crepuscular:** Enciende automáticamente la luz cuando abres la puerta del armario. Si no hay movimiento, se desconecta automáticamente a los 40 segundos.

El kit incluye la barra de led y los soportes de pared a pared. Otros accesorios o soportes, consultar. Fuente de alimentación y/o batería NO incluidas.

*Stylish and functional solution to enhance the visibility and visual appeal of your wardrobe.*

### Options:

- **Li-Ion battery:** Light up your wardrobe without the need for electrical installation. These batteries are long lasting and easily rechargeable (charger included in the kit).
- **Motion and twilight sensor:** Automatically switches the light on when you open the wardrobe door.
- *If there is no movement, it switches off automatically after 40 seconds.*

The kit includes the LED bar and wall-to-wall brackets. For other accessories or brackets, please inquire. Power supply and/or battery NOT included.

| CÓDIGO<br>CODE | PERFIL LED<br>LED PROFILE | ALUMINIO<br>ALUMINIUM | CM  | VCC<br>VDC | W    | SENSOR   | °K                                       |             |          |              |
|----------------|---------------------------|-----------------------|-----|------------|------|--|--|-------------|----------|--------------|
|                |                           |                       |     |            |      |  |  | XX<br>12/24 | Y<br>D/I | Z<br>X/C/N/F |
| 2828G040XXYSZ  |                           | G                     | 040 | 12<br>24   | 1,68 | <b>CON SENSOR<br/>WITH SENSOR</b><br><br>D= Derecha/Right<br>I= Izquierda/Left | X=2700K<br>C=3000K<br>N=4000K<br>F=6000K | S           |          |              |
| 2828G060XXYSZ  |                           |                       | 060 |            | 2,64 |  |  |             |          |              |
| 2828G080XXYSZ  |                           |                       | 080 |            | 3,6  |  |  |             |          |              |
| 2828G100XXYSZ  |                           |                       | 100 |            | 4,56 |  |  |             |          |              |
| 2828G200XXYSZ  |                           |                       | 200 |            | 9,36 |  |  |             |          |              |
| 2828G040XXWSZ  |                           | G                     | 040 | 12<br>24   | 1,68 | <b>SIN SENSOR<br/>WITHOUT SENSOR</b><br><br>W                                  | X=2700K<br>C=3000K<br>N=4000K<br>F=6000K | S           |          |              |
| 2828G060XXWSZ  |                           |                       | 060 |            | 2,64 |  |  |             |          |              |
| 2828G080XXWSZ  |                           |                       | 080 |            | 3,6  |  |  |             |          |              |
| 2828G100XXWSZ  |                           |                       | 100 |            | 4,56 |  |  |             |          |              |
| 2828G200XXWSZ  |                           |                       | 200 |            | 9,36 |  |  |             |          |              |

# LUMINARIA PORTÁTIL CON BATERÍA PARA EXTERIOR

PORTABLE OUTDOOR BATTERY-POWERED LIGHT

# BAT



## FANALED

### Luminaria portátil con batería Li-Ion 12V para parasoles

Diseñada especialmente para **terrazas de restaurantes, bares y cafeterías**, esta luminaria portátil ofrece una solución práctica y elegante de iluminación ambiental.

Su **batería recargable de Li-Ion a 12V** garantiza autonomía y seguridad, eliminando la necesidad de cableado y facilitando su instalación en parasoles y estructuras similares.

- Portátil, ligera y fácil de colgar.
- Ideal para crear ambientes agradables en espacios de hostelería.
- Tecnología LED de bajo consumo con gran eficiencia.
- Autonomía prolongada y recarga sencilla.

Una solución innovadora para quienes buscan comodidad, estilo y funcionalidad en la iluminación de exteriores.

### Portable Li-Ion 12V Battery Lamp for Parasols

Specially designed for **restaurant, bar, and café terraces**, this portable lamp provides a practical and elegant solution for ambient lighting.

Its **rechargeable 12V Li-Ion battery** ensures autonomy and safety, eliminating the need for wiring and making installation on parasols and similar structures quick and easy.

- Portable, lightweight, and easy to hang
- Ideal for creating pleasant atmospheres in hospitality spaces
- Energy-efficient LED technology with low power consumption
- Long-lasting autonomy and easy recharging

An innovative solution for those who seek **comfort, style, and functionality** in outdoor lighting.



# LUMINARIA PORTÁTIL CON BATERÍA PARA EXTERIOR

## PORTABLE OUTDOOR BATTERY-POWERED LIGHT

# BAT



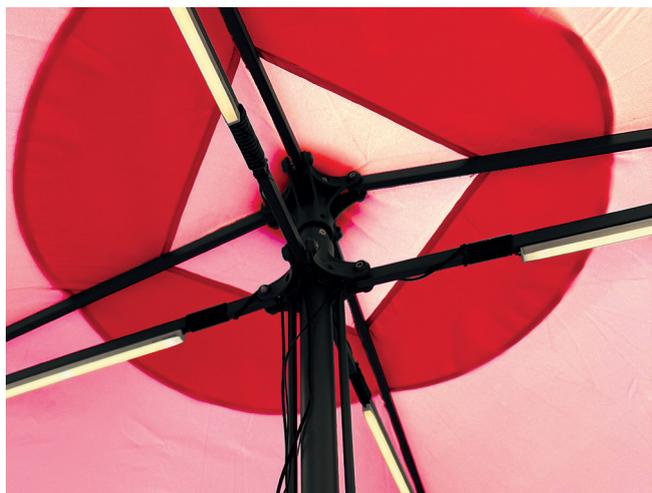
- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• <b>Dimensiones:</b> 220 x 80 x 80</li> <li>• <b>Peso Neto:</b> 600 g</li> <li>• <b>Materiales:</b> Aluminio anodizado + difusor opal</li> <li>• <b>Colores disponibles:</b> Negro, blanco, plata</li> <li>• <b>Grado de protección:</b> IP54</li> <li>• <b>Sistema de fijación:</b> Gancho integrado para parasoles</li> <li>• <b>Alimentación:</b> Batería recargable Li-Ion 12V</li> <li>• <b>Capacidad batería:</b> 2.500 mAh</li> <li>• <b>Autonomía:</b> 8-10 h (uso continuo)</li> <li>• <b>Recarga:</b> 4 h mediante cargador 12.6V 1A</li> <li>• <b>Consumo:</b> 3.5 W</li> <li>• <b>Flujo luminoso:</b> 350 lm</li> <li>• <b>Eficacia lumínica:</b> 100 lm/W</li> <li>• <b>Temperatura de color (CCT):</b> 3000K / 4000K</li> <li>• <b>CRI (Ra):</b> &gt; 80</li> <li>• <b>Ángulo de apertura:</b> 360°</li> <li>• <b>Tecnología LED:</b> SMD 2835</li> <li>• <b>Vida útil LED:</b> &gt; 30.000 h</li> <li>• <b>Ciclos de encendido/apagado:</b> &gt; 50.000</li> <li>• <b>Temperatura de trabajo:</b> -10°C a +40°C</li> <li>• <b>Certificaciones:</b> CE, RoHS</li> <li>• <b>Accesorios incluidos:</b> Cargador 1A 12.6V</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Dimensions:</b> 220 x 80 x 80</li> <li>• <b>Net Weight:</b> 600 g</li> <li>• <b>Materials:</b> Anodized aluminium + opal diffuser</li> <li>• <b>Available colors:</b> Black, white, silver</li> <li>• <b>Protection rating:</b> IP54</li> <li>• <b>Mounting system:</b> Integrated hook for sun visors</li> <li>• <b>Power supply:</b> Rechargeable 12 V Li-Ion battery</li> <li>• <b>Battery capacity:</b> 2.500 mAh</li> <li>• <b>Battery life:</b> 8–10 h (continuous use)</li> <li>• <b>Recharge time:</b> 4 h using a 12.6 V 1 A charger</li> <li>• <b>Consumption:</b> 3.5 W</li> <li>• <b>Luminous flux:</b> 350 lm</li> <li>• <b>Luminous efficacy:</b> 100 lm/W</li> <li>• <b>Color temperature (CCT):</b> 3000K / 4000K</li> <li>• <b>CRI (Ra):</b> &gt; 80</li> <li>• <b>Beam angle:</b> 360°</li> <li>• <b>LED technology:</b> SMD 2835</li> <li>• <b>LED lifespan:</b> &gt; 30.000 h</li> <li>• <b>On/Off cycles:</b> &gt; 50.000</li> <li>• <b>Working Temperature:</b> -10°C a +40°C</li> <li>• <b>Certifications:</b> CE, RoHS</li> <li>• <b>Included accessories:</b> 1A 12.6V charger</li> </ul> |
|---|--|

| CÓDIGO<br>CODE | ALUMINIO<br>ALUMINIUM | MM            | VCC<br>VDC | W | FUNCIÓN<br>FUNCTION   | °K                                    |
|----------------|-----------------------|---------------|------------|---|---|---------------------------------------|
| 22080NB12OTC   | <b>N</b>              | 220 x 80 x 80 | 12         | 4 | ON/OFF  | <input checked="" type="checkbox"/> C |
| 22080NB12OTN   |                       |               |            |   |   | <input type="checkbox"/> N            |
| 22080BB12OTC   |                       |               |            |   |   | <input checked="" type="checkbox"/> C |
| 22080BB12OTN   |                       |               |            |   |   | <input type="checkbox"/> N            |
| 22080GB12OTC   |                       |               |            |   |   | <input checked="" type="checkbox"/> C |
| 22080GB12OTN   |                       |               |            |   |   | <input type="checkbox"/> N            |
| 22080NB12D3C   | <b>N</b>              | 220 x 80 x 80 | 12         | 4 | PUSH DIMMER<br>  | <input checked="" type="checkbox"/> C |
| 22080NB12D3N   |                       |               |            |   |   | <input type="checkbox"/> N            |
| 22080BB12D3C   |                       |               |            |   |   | <input checked="" type="checkbox"/> C |
| 22080BB12D3N   |                       |               |            |   |   | <input type="checkbox"/> N            |
| 22080GB12D3C   |                       |               |            |   |   | <input checked="" type="checkbox"/> C |
| 22080GB12D3N   |                       |               |            |   |   | <input type="checkbox"/> N            |
| 22080NB12RFC   | <b>N</b>              | 220 x 80 x 80 | 12         | 4 | MANDO RF APP<br> | <input checked="" type="checkbox"/> C |
| 22080NB12RFN   |                       |               |            |   |   | <input type="checkbox"/> N            |
| 22080BB12RFC   |                       |               |            |   |   | <input checked="" type="checkbox"/> C |
| 22080BB12RFN   |                       |               |            |   |   | <input type="checkbox"/> N            |
| 22080GB12RFC   |                       |               |            |   |   | <input checked="" type="checkbox"/> C |
| 22080GB12RFN   |                       |               |            |   |   | <input type="checkbox"/> N            |

# BARRAS DE LED PARA KIT KB1528152N4

LED BARS FOR THE KB1528152N4

12 VCC  
VDC



Barras de LED de 50cm, para ser instaladas con el KIT **KB1528152N4**.

150cm cable 2x0.5 negro con conector jack 5.5x2.1 hembra, adhesivo 3M, grapas y bridas, para facilitar su fijación y extracción. Bajo pedido, otras longitudes, potencias y colores.

50cm LEDs bar, to be installed with **KB1528152N4** KITS.

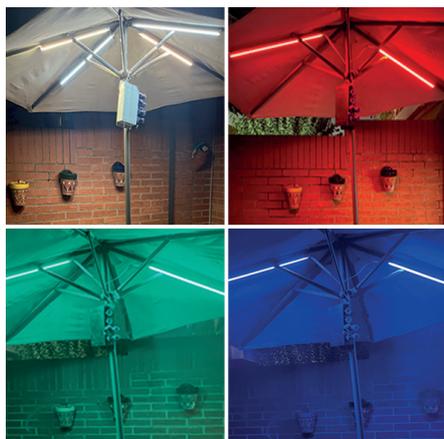
150cm 2x0.5 black cable with 5.5x2.1 female jack connector, 3M adhesive, clips, and cable ties for easy attachment and removal. Other lengths, wattages, and colors available upon request.

| CÓDIGO<br>CODE | °K    | MM        | VCC<br>VDC | W | ALUMINIO<br>ALUMINIUM |   |   |
|----------------|-------|-----------|------------|---|-----------------------|---|---|
| 1212G05012JFC  | 3000  | 500x12x12 | 12         | 3 | ■                     |  |   |
| 1212G05012JFN  | 4000  |           |            |   |                       |   | □ |
| 1212G05012JFF  | 6000  |           |            |   |                       |   | ■ |
| 1212G05012JFR  | ROJO  |           |            |   |                       |   | ■ |
| 1212G05012JFV  | VERDE |           |            |   |                       |   | ■ |
| 1212G05012JFA  | AZUL  |           |            |   |                       |   | ■ |
| 1212B05012JFC  | 3000  | 500x12x12 | 12         | 3 | □                     |  |   |
| 1212B05012JFN  | 4000  |           |            |   |                       |   | □ |
| 1212B05012JFF  | 6000  |           |            |   |                       |   | ■ |
| 1212B05012JFR  | ROJO  |           |            |   |                       |   | ■ |
| 1212B05012JFV  | VERDE |           |            |   |                       |   | ■ |
| 1212B05012JFA  | AZUL  |           |            |   |                       |   | ■ |
| 1212N05012JFC  | 3000  | 500x12x12 | 12         | 3 | ■                     |  |   |
| 1212N05012JFN  | 4000  |           |            |   |                       |   | □ |
| 1212N05012JFF  | 6000  |           |            |   |                       |   | ■ |
| 1212N05012JFR  | ROJO  |           |            |   |                       |   | ■ |
| 1212N05012JFV  | VERDE |           |            |   |                       |   | ■ |
| 1212N05012JFA  | AZUL  |           |            |   |                       |   | ■ |

# BARRAS DE LED PARA KIT KPB/KPR/KSC

LED BARS FOR THE KPB/KPR/KSC

12 VCC  
VDC



Barras de LED de 50cm, para ser instaladas con los KIT's **KPB/KPR/KSC** 150cm cable 2x0.5 negro con conector estanco hembra, adhesivo 3M, grapas y bridas, para facilitar su fijación y extracción. Bajo pedido, otras longitudes, potencias y colores.

50cm LEDs bar, to be installed with **KPB/KPR/KSC KITS**. 150cm 2x0.5 black cable with waterproof connector, 3M adhesive, clips, and cable ties for easy attachment and removal. Other lengths, wattages, and colors available upon request.



| CÓDIGO<br>CODE | °K    | MM        | VCC<br>VDC | W | ALUMINIO<br>ALUMINIUM |  |
|----------------|-------|-----------|------------|---|-----------------------|--|
| 1212G05012WPC  | 3000  | 500x12x12 | 12         | 3 | ■                     |  |
| 1212G05012WPN  | 4000  |           |            |   |                       |  |
| 1212G05012WPF  | 6000  |           |            |   |                       |  |
| 1212G05012WPR  | ROJO  |           |            |   |                       |  |
| 1212G05012WPV  | VERDE |           |            |   |                       |  |
| 1212G05012WPA  | AZUL  |           |            |   |                       |  |
| 1212G05012WPS  | CCT   |           |            |   |                       |  |
| 1715G05012WPT  | RGB   |           |            |   |                       |  |
| 1212B05012WPC  | 3000  | 500x12x12 | 12         | 3 | □                     |  |
| 1212B05012WPN  | 4000  |           |            |   |                       |  |
| 1212B05012WPF  | 6000  |           |            |   |                       |  |
| 1212B05012WPR  | ROJO  |           |            |   |                       |  |
| 1212B05012WPV  | VERDE |           |            |   |                       |  |
| 1212B05012WPA  | AZUL  |           |            |   |                       |  |
| 1212B05012WPS  | CCT   |           |            |   |                       |  |
| 1715B05012WPT  | RGB   |           |            |   |                       |  |
| 1212N05012WPC  | 3000  | 500x12x12 | 12         | 3 | ■                     |  |
| 1212N05012WPN  | 4000  |           |            |   |                       |  |
| 1212N05012WPF  | 6000  |           |            |   |                       |  |
| 1212N05012WPR  | ROJO  |           |            |   |                       |  |
| 1212N05012WPV  | VERDE |           |            |   |                       |  |
| 1212N05012WPA  | AZUL  |           |            |   |                       |  |
| 1212N05012WPS  | CCT   |           |            |   |                       |  |
| 1715N05012WPT  | RGB   |           |            |   |                       |  |
| 1715G050230WC  | 3000  | 500x17x15 | 230<br>Vac | 9 | ■                     |  |
| 1715G050230WN  | 4000  |           |            |   |                       |  |
| 1715G050230WF  | 6000  |           |            |   |                       |  |
| 1715B050230WC  | 3000  |           |            |   |                       |  |
| 1715B050230WN  | 4000  |           |            |   |                       |  |
| 1715B050230WF  | 6000  |           |            |   |                       |  |
| 1715N050230WC  | 3000  |           |            |   |                       |  |
| 1715N050230WN  | 4000  |           |            |   |                       |  |
| 1715N050230WF  | 6000  |           |            |   |                       |  |

# SEÑALIZACIÓN LED

## LED SIGNAGE



Alta visibilidad  
y  
bajo consumo

*High visibility  
and  
low consumption*



Son **íconos o símbolos retroiluminados** por LED dentro de **cajas de luz pequeñas** que indican funciones o zonas.

They are **LED-backlit icons or symbols** inside **small light boxes** that indicate functions or zones.

- Probadores
- Baños
- Caja
- Salida
- Atención al cliente
- Zona de recogida
- Accesibilidad
- Wi-Fi gratuito
- Fitting Rooms
- Bathrooms
- Payment
- Checkout
- Customer Service
- Pickup Area
- Accessibility
- Free Wi-Fi

Nuestras cajas de luz retroiluminadas con pictogramas ofrecen una **señalización clara, elegante y eficiente**. Disponibles en tres versiones:

- Siempre Encendidas
- Con Sensor de Movimiento
- Con Intermitencia

Todas las versiones funcionan a **220 V~ con fuente interna a 12 VDC**, se fabrican en **dos medidas estándar (170 x 100 x 25 mm y 480 x 135 x 25 mm)**, y pueden **personalizarse en medidas, colores y pictogramas** según las necesidades del cliente.

Our backlit light boxes with pictograms offer **clear, elegant, and efficient signage**.

Available in three versions:

- Always On
- With Motion Sensor
- With Flashing

All versions operate at **220 V~ with an internal 12 VDC**, power supply. They are manufactured in **two standard sizes (170 x 100 x 25 mm and 480 x 135 x 25 mm)** and can be **customized in sizes, colors, and pictograms** according to the customer's needs.



#### Cajas de Luz con Pictograma Siempre encendidas

La opción más sencilla y práctica de la gama. Estas cajas de luz permanecen **iluminadas de forma continua**, ofreciendo **alta visibilidad constante** en todo momento. Ideales para señalización fija en lugares donde se requiere una **identificación clara y permanente**.

#### Always-On Pictogram Light Boxes

The simplest and most practical option in the range. These light boxes remain **illuminated continuously**, offering **high visibility at all times**. Ideal for fixed signage in locations where **clear, permanent identification** is required.



#### Cajas de Luz con Pictograma y Sensor de Movimiento

Solución innovadora para señalización en espacios públicos y privados. Estas cajas de luz integran un **sensor de movimiento PIR** que activa la iluminación únicamente al detectar presencia, garantizando **ahorro energético y mayor durabilidad de los LED**.

#### Light Boxes with Pictogram and Motion Sensor

An innovative solution for signage in public and private spaces. These light boxes integrate a **PIR motion sensor** that activates the lighting only when presence is detected, **ensuring energy savings and longer LED life**.



#### Cajas de Luz con Pictograma Intermitente

Diseñadas para resaltar la señalización de forma dinámica y llamativa. Las cajas de luz con **función intermitente** generan un efecto visual que aumenta la atención del usuario, ideales para aplicaciones de **advertencia, seguridad o señalización especial**.

#### Light Boxes with Flashing Pictograms

Designed to highlight signage in a dynamic and eye-catching way. Light boxes with a **flashing function** create a visual effect that increases user attention, ideal for warning, safety, or special signage applications.

## Personalización Total | Total Customization

Bajo pedido, realizamos una personalización completa en señalización LED, adaptando dimensiones, acabados, tipografía y color de luz para ajustarnos a las necesidades específicas de cada proyecto.

*On request, we offer full customization in LED signage, adapting dimensions, finishes, typography and light color to meet the specific needs of each project.*



### Centros Comerciales / Grandes Superficies / Tiendas

En los centros comerciales la señalización LED combina **funcionalidad y marketing visual**, mejorando tanto la experiencia del visitante como la imagen de las marcas.

- **Numeración y señalización de locales:** carteles LED de alta visibilidad que permiten identificar claramente cada espacio.
- **Directorios luminosos:** pantallas y paneles retroiluminados con información de tiendas, servicios y promociones.
- **Señalización direccional:** flechas y pictogramas LED para orientar a los visitantes en parkings, accesos y zonas de tránsito.

### Shopping Centers / Large Stores / Shops

*In shopping centers, LED signage combines **functionality and visual marketing**, improving both the visitor experience and brand image.*

- **Store numbering and signage:** High-visibility LED signs that clearly identify each space.
- **Illuminated directories:** Backlit screens and panels with information about stores, services, and promotions.
- **Directional signage:** LED arrows and pictograms to guide visitors in parking lots, entrances, and transit areas.



## Hoteles

En el sector hotelero, la señalización LED cumple un papel fundamental en la **experiencia del huésped** y en la **seguridad de las instalaciones**.

- **Números de habitación:** personalizables en color, intensidad y tipografía.
- **Pasillos y zonas comunes:** guías luminosas para facilitar la orientación y mejorar la estética de los recorridos.
- **Señalización de emergencia:** iluminación clara en salidas, escaleras y puntos de seguridad con sistemas LED de bajo consumo.

### Hotels

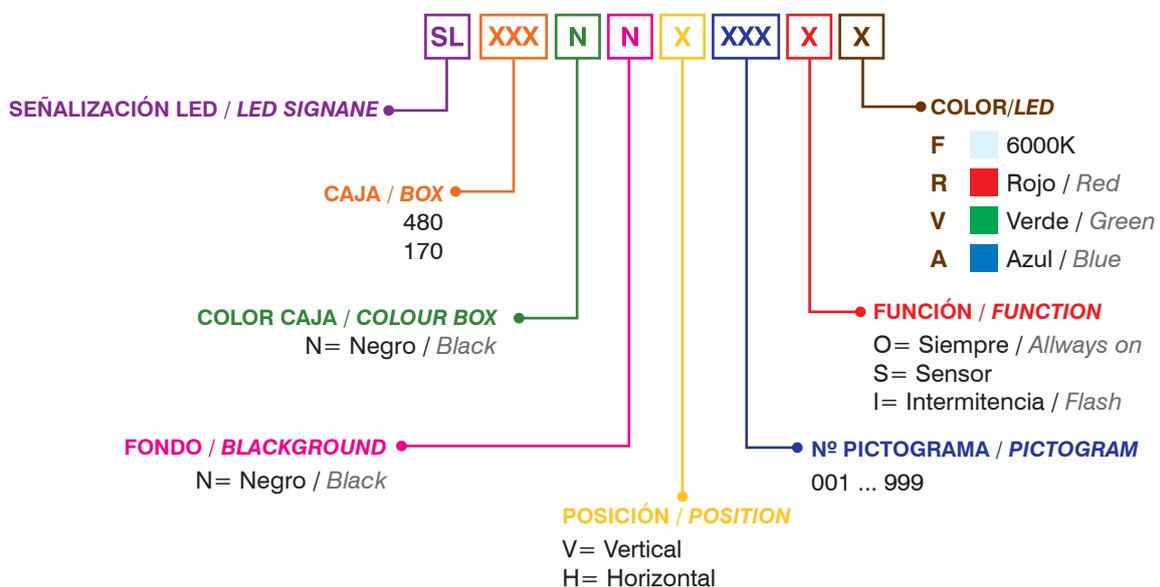
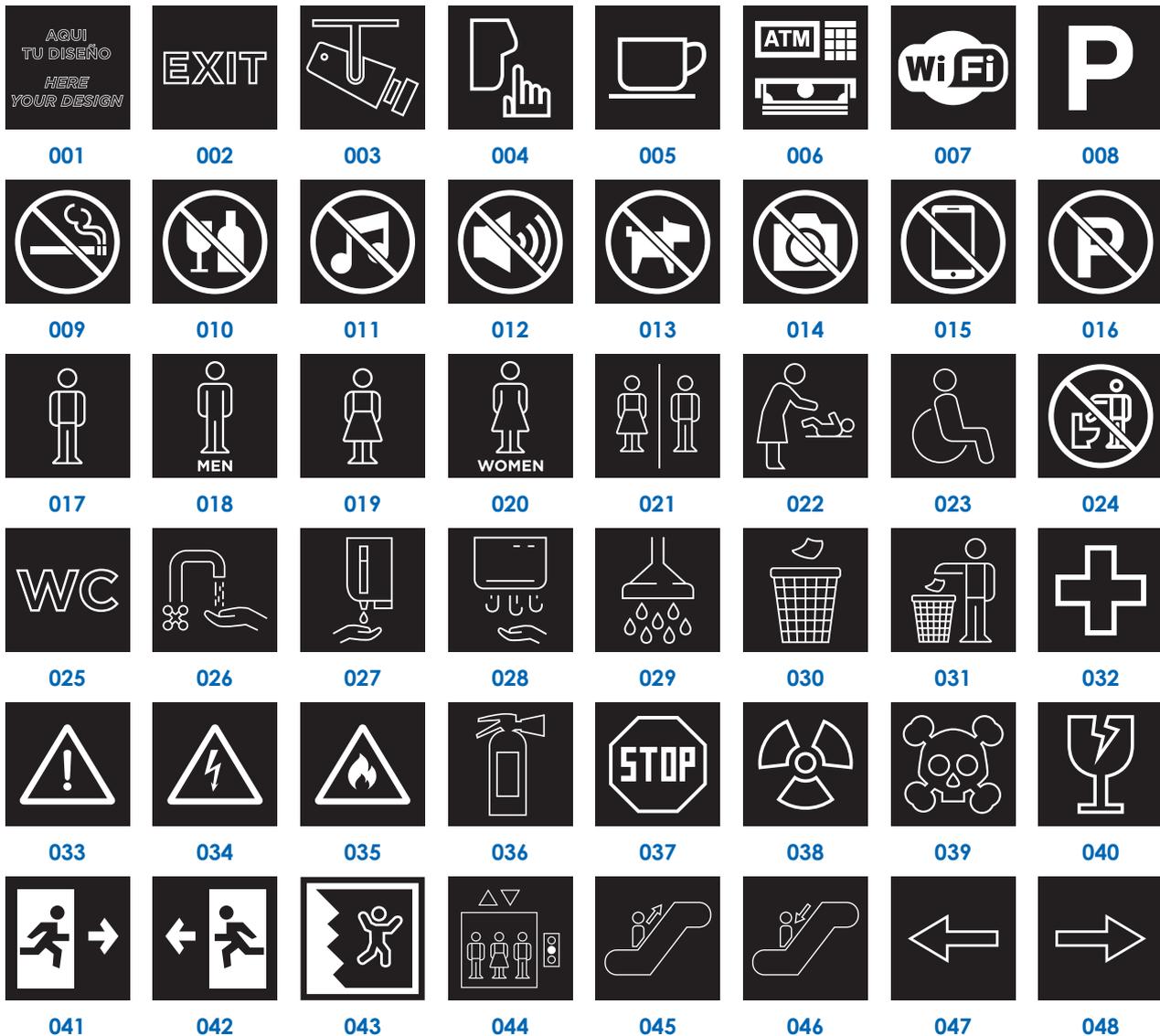
*In the hotel sector, LED signage plays a fundamental role in the **guest experience** and the **security of the facilities**.*

- **Room numbers:** customizable in color, intensity, and font.
- **Corridors and common areas:** illuminated guides to facilitate orientation and improve the aesthetics of the routes.
- **Emergency signage:** clear lighting at exits, stairwells, and security points with low-consumption LED systems.





Escoge pictograma (o envíanos tu propio diseño y lo adaptamos)  
 Choose a pictogram (or send us your own design and we'll adapt it)



# ILUMINACIÓN LED PARA VEHÍCULOS

## LED LIGHTING FOR VEHICLES





BANDERAS LED  
LED FLAGS



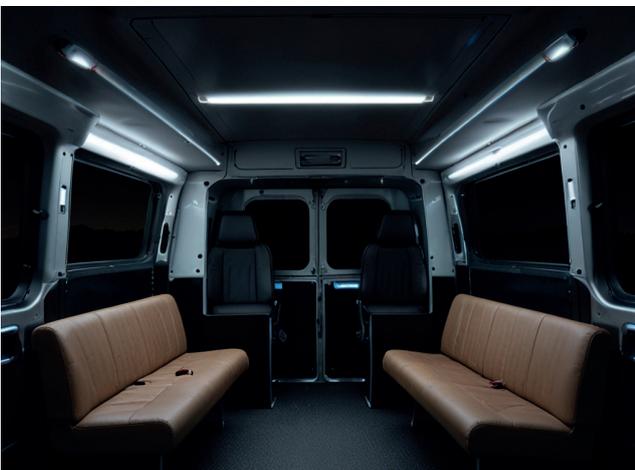
CRUZ LED  
LED CROSS



PANEL LED CONFIGURABLE  
CONFIGURABLE LED PANEL



LETRERO LED PERSONALIZABLE  
CUSTOMIZABLE LED SIGN



LUMINARIAS 12-24V  
12-24V LIGHTING FIXTURES



Estas banderas combinan la funcionalidad y la estética, proporcionando una forma única de personalizar vehículos y mostrar afiliaciones personales o profesionales.

Están diseñadas para ser visibles durante el día y la noche, añadiendo un toque personalizado y atractivo.

- Fabricadas con perfil de aluminio y tiras rígidas de led, máxima calidad.
- Longitud del cable de conexión: 30cm
- Conector de conexión Jack hembra 5.5x2.1
- Voltaje In (V): 12/24VDC
- Regulador de intensidad luminosa con memoria de posición: ON/OFF + 33/66/99%
- Fabricado en ESPAÑA
- 3 años de Garantía
- Para uso INTERIOR
- Disponemos de banderas led de PAÍSES, COM. AUTÓNOMAS, CIUDADES Y COLORES PERSONALIZADOS

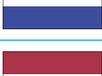
*These flags combine functionality and aesthetics, providing a unique way to personalize vehicles and display personal or professional affiliations.*

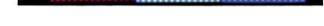
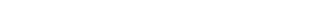
*They are designed to be visible during the day and at night, adding a personalized and attractive touch.*

- *Manufactured with aluminium profile and rigid LED strips, maximum quality*
- *Connection cable length: 30cm*
- *Connection connector: 5.5x2.1 female jack*
- *Input voltage (V): 12/24VDC*
- *Light intensity regulator with position memory: ON/OFF + 33/66/99%*
- *Manufactured in SPAIN*
- *3-year warranty*
- *For INDOOR use*
- *We have LED flags for COUNTRIES, AUTONOMOUS COMMUNITIES, CITIES AND CUSTOMISED COLOURS*

### PAISES / COUNTRIES

| PAIS / COUNTRY | REF.    | BANDERA / FLAG | COMPOSICIÓN LED / LED COMPOSITION | MM        |
|----------------|---------|----------------|-----------------------------------|-----------|
| ALEMANIA       | BLUEDE  |                |                                   | 450x32x11 |
| ANDORRA        | BLUEAND |                |                                   | 450x32x11 |
| ARGENTINA      | BLSAARG |                |                                   | 450x32x11 |

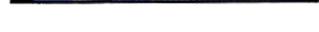
|             |         |   |  |           |
|-------------|---------|---|--|-----------|
| AUSTRIA     | BLUEAT  |    |    | 450x32x11 |
| BÉLGICA     | BLUEBE  |    |    | 450x32x11 |
| BOLIVIA     | BLSABOL |    |    | 450x32x11 |
| BRASIL      | BLSABRA |    |    | 450x32x11 |
| BULGARIA    | BLUEBG  |    |    | 450x32x11 |
| CANADA      | BLNACAN |    |    | 450x32x11 |
| COLOMBIA    | BLSACOL |    |    | 450x32x11 |
| COSTA RICA  | BLSACR  |    |    | 450x32x11 |
| CROACIA     | BLUEHR  |    |    | 450x32x11 |
| ECUADOR     | BLSAECU |   |   | 450x32x11 |
| EGIPTO      | BLAFEGY |  |  | 450x32x11 |
| EL SALVADOR | BLSASLV |  |  | 450x32x11 |
| ESLOVAQUIA  | BLUESK  |  |  | 450x32x11 |
| ESLOVENIA   | BLUESI  |  |  | 450x32x11 |
| ESPAÑA      | BLUEES  |  |  | 450x32x11 |
| FRANCIA     | BLUEFR  |  |  | 450x32x11 |
| GUATEMALA   | BLSAGTM |  |  | 450x32x11 |
| HONDURAS    | BLSAHND |  |  | 450x32x11 |
| HUNGRIA     | BLUEHU  |  |  | 450x32x11 |
| INGLATERRA  | BLUEGB  |  |  | 450x32x11 |
| IRLANDA     | BLUEIE  |  |  | 450x32x11 |
| ITALIA      | BLUEIT  |  |  | 450x32x11 |

|                 |         |   |  |           |
|-----------------|---------|---|--|-----------|
| LETONIA         | LETONIA |    |    | 450x32x11 |
| LITUANIA        | BLUFLT  |    |    | 450x32x11 |
| LUXEMBURGO      | BLUFLU  |    |    | 450x32x11 |
| MALTA           | BLUEMT  |    |    | 450x32x11 |
| MARRUECOS       | BLAFMAR |    |    | 450x32x11 |
| MÉXICO          | BLSAMEX |    |    | 450x32x11 |
| MÓNACO          | BLUEMCO |    |    | 450x32x11 |
| NICARAGUA       | BLSANIC |    |    | 450x32x11 |
| NIGERIA         | BLAFNGA |    |    | 450x32x11 |
| PAISES BAJOS    | BLUENL  |   |   | 450x32x11 |
| PARAGUAY        | BLSAPRY |  |  | 450x32x11 |
| PERÚ            | BLSAPE  |  |  | 450x32x11 |
| POLONIA         | BLUEPL  |  |  | 450x32x11 |
| PORTUGAL        | BLUEPT  |  |  | 450x32x11 |
| REP. DOMINICANA | BLSADO  |  |  | 450x32x11 |
| RUMANÍA         | BLUERO  |  |  | 450x32x11 |
| RUSIA           | BLUERU  |  |  | 450x32x11 |
| SENEGAL         | BLAFSEN |  |  | 450x32x11 |
| UCRANIA         | BLUEUA  |  |  | 450x32x11 |
| URUGUAY         | BLSAUY  |  |  | 450x32x11 |
| VATICANO        | BLUEVA  |  |  | 450x32x11 |
| VENEZUELA       | BLSAVEN |  |  | 450x32x11 |

## COMUNIDADES AUTÓNOMAS / AUTONOMOUS COMMUNITIES

|           |          |   |  |           |
|-----------|----------|---|--|-----------|
| ANDALUCÍA | BLCCAA01 |  |  | 450x32x11 |
| ARAGÓN    | BLCCAA02 |  |  | 500x32x11 |
| BALEARES  | BLCCAA04 |  |  | 500x32x11 |
| CANARIAS  | BLCCAA05 |  |  | 450x32x11 |
| CANTABRIA | BLCCAA06 |  |  | 450x32x11 |
| CASTILLA  | BLCCAA08 |  |  | 450x32x11 |
| CATALUNYA | BLCCAA09 |  |  | 500x32x11 |
| VALENCIA  | BLCCAA10 |  |  | 500x32x11 |

## COLORES PERSONALIZADOS / CUSTOMIZED COLOURS

|              |   |  |           |
|--------------|---|--|-----------|
| BLDBARCELONA |  |  | 400x32x11 |
| BLDBETIS     |  |  | 450x32x11 |
| BLDBILBAO    |  |  | 500x32x11 |
| BLDESPAÑOL   |  |  | 500x32x11 |
| BLDGERONA    |  |  | 400x32x11 |
| BLDHERCULES  |  |  | 450x32x11 |
| BLDMADRID    |  |  | 400x32x11 |
| BLDPALMAS    |  |  | 450x32x11 |
| BLDPARIS     |  |  | 450x32x11 |
| BLDREAL      |  |  | 450x32x11 |
| BLDSOCIEDAD  |  |  | 450x32x11 |



| CÓDIGO<br>CODE                                 | °K                   |  | MM         | VCC<br>VDC     | AL.<br>AL. |  |
|--|----------------------|--|------------|----------------|------------|--|
| CL220120 <b>12</b> C<br>CL220120 <b>24</b> C   | 3000                 |  | 220x120x12 | <b>12 / 24</b> |            |  |
| CL220120 <b>12</b> F<br>CL220120 <b>24</b> F   | 6000                 |  |            |                |            |  |
| CL220120 <b>12</b> R<br>CL220120 <b>24</b> R   | ROJO<br>RED          |  |            |                |            |  |
| CL220120 <b>12</b> V<br>CL220120 <b>24</b> V   | VERDE<br>GREEN       |  |            |                |            |  |
| CL220120 <b>12</b> A<br>CL220120 <b>24</b> A   | AZUL<br>BLUE         |  |            |                |            |  |
| CL220120 <b>12</b> ES<br>CL220120 <b>24</b> ES | ESPAÑA<br>SPAIN      |  |            |                |            |  |
| CL220120 <b>12</b> FR<br>CL220120 <b>24</b> FR | FRANCIA<br>FRANCE    |  |            |                |            |  |
| CL220120 <b>12</b> PT<br>CL220120 <b>24</b> PT | PORTUGAL<br>PORTUGAL |  |            |                |            |  |

# PANEL LED CONFIGURABLE

## CONFIGURABLE LED PANEL



5 VCC  
VDC



- Sin límites para su creatividad.
- Múltiples posibilidades de uso con letras y símbolos predefinidos, además de opciones personalizables desde la App.
- Funciona con cable USB de 4,5 m e interruptor de encendido/apagado.
- Diseño ultra-flexible para una instalación sencilla en cualquier lugar.
- Incluye mando a distancia y cinta adhesiva transparente de doble cara.

- No limits to your creativity.
- Multiple possibilities of use with predefined letters and symbols, as well as customizable options from the app.
- Works with 4.5 m USB cable and on/off switch.
- Ultra-flexible design for easy installation anywhere.
- Includes remote control and transparent double-sided adhesive tape.

| REF.         | VCC<br>VDC | MM         |  |
|--------------|------------|------------|--|
| PLPT173X70   | 5          | 173 x 70   |  |
| PLPT374X92   |            | 374 x 92   |  |
| PLPT595X120  |            | 595 x 120  |  |
| PLPT898X192  |            | 898 x 192  |  |
| PLPT1330X192 |            | 1330 x 192 |  |
| PLPT1762X192 |            | 1762 x 192 |  |



Estas placas personalizadas ofrecen **diseño exclusivo**, amplia **variedad de colores** y efectos, junto con iluminación LED de bajo consumo para mayor eficiencia. Son resistentes y versátiles, ideales para exteriores, como **camiones, empresas y restaurantes**.

Su fácil instalación permite opciones magnéticas, adhesivas o fijas. Entre sus beneficios destacan una **mayor visibilidad de marca**, atractivo moderno y durabilidad.

*These personalized plates offer **exclusive desing**, a wide **variety of colors and effects**, along with low-consumption LED lighting for greater efficiency. They are **resistant and versatile**, ideal for exteriors and interiors, such as **trucks, companies and restaurants**.*

*Its easy installation allows magnetic, adhesive or fixed options. Among its benefits stand out **greater brand visibility**, modern appeal and durability.*

| REF.         | COLOR | FUNCIÓN<br>FUNCTION | VCC<br>VDC   | MM             |              |        |
|--------------|-------|---------------------|--------------|----------------|--------------|--------|
| LB480135OTF  | 6000K |                     | 12/24        | 480 x 135 x 25 |              |        |
| LB480135OTR  | ROJO  |                     |              |                |              | ON/OFF |
| LB480135OTV  | VERDE |                     |              |                |              |        |
| LB480135OTA  | AZUL  |                     |              |                |              |        |
| LB480135RFF  | 6000K |                     |              |                | MANDO RF APP |        |
| LB480135RFR  | ROJO  |                     |              |                |              |        |
| LB480135RFV  | VERDE |                     |              |                |              |        |
| LB480135RFA  | AZUL  |                     |              |                |              |        |
| LB480135FRGB | RGB   |                     | MANDO RF APP |                |              |        |



**Luminarias LED de Alta Eficiencia para Vehículos de Transporte**

Diseñadas para ofrecer máxima durabilidad y eficiencia, nuestras luminarias LED garantizan un consumo reducido y una distribución uniforme de luz en el interior del vehículo.

Disponibles con sensor de movimiento para encendido automático o dimmer integrado para control preciso de la intensidad lumínica.

**High-Efficiency LED Luminaires for Transport Vehicles**

Designed to deliver maximum durability and efficiency, our LED luminaires ensure reduced power consumption and uniform light distribution inside the vehicle.

Available with a motion sensor for automatic activation or an integrated dimmer for precise brightness control.

| CÓDIGO<br>CODE | PERFIL LED<br>LED PROFILE | ALUMINIO<br>ALUMINIUM | MM        | VCC<br>VDC               | W  | SENSOR<br>S | °K   |
|----------------|---------------------------|-----------------------|-----------|--------------------------|----|-------------|------|
| 3211N030DVSF   | <b>PAS3211</b><br><br>    |                       | 300x32x11 | DUAL<br>VOLTAJE<br>12/24 | 7  |             | 6000 |
| 3211B030DVSF   |                           |                       | 450x32x11 |                          | 12 |             |      |
| 3211G030DVSF   |                           |                       | 600x32x11 |                          | 16 |             |      |
| 3211N045DVSF   |                           |                       |           |                          |    |             |      |
| 3211B045DVSF   |                           |                       |           |                          |    |             |      |
| 3211G045DVSF   |                           |                       |           |                          |    |             |      |
| 3211N060DVSF   |                           |                       |           |                          |    |             |      |
| 3211B060DVSF   |                           |                       |           |                          |    |             |      |
| 3211G060DVSF   |                           |                       |           |                          |    |             |      |

| CÓDIGO<br>CODE | PERFIL LED<br>LED PROFILE | ALUMINIO<br>ALUMINIUM | MM        | VCC<br>VDC               | W  | DIMMER<br>D | °K   |
|----------------|---------------------------|-----------------------|-----------|--------------------------|----|-------------|------|
| 3211N030DVDF   | <b>PAS3211</b><br><br>    |                       | 300x32x11 | DUAL<br>VOLTAJE<br>12/24 | 7  |             | 6000 |
| 3211B030DVDF   |                           |                       | 450x32x11 |                          | 12 |             |      |
| 3211G030DVDF   |                           |                       | 600x32x11 |                          | 16 |             |      |
| 3211N045DVDF   |                           |                       |           |                          |    |             |      |
| 3211B045DVDF   |                           |                       |           |                          |    |             |      |
| 3211G045DVDF   |                           |                       |           |                          |    |             |      |
| 3211N060DVDF   |                           |                       |           |                          |    |             |      |
| 3211B060DVDF   |                           |                       |           |                          |    |             |      |
| 3211G060DVDF   |                           |                       |           |                          |    |             |      |

## EXPOSITORES

### POINT-OF-SALE DISPLAY

Presentamos nuestros **expositores de sobremesa**, una herramienta práctica y atractiva diseñada para mostrar a clientes y profesionales una **visualización real de la calidad de nuestros productos**.

*We're introducing our **tabletop displays**, a practical and attractive tool designed to give customers and professionals a **real-world view of the quality of our products**.*

- Medidas: 520 x 470 x 240 mm
- Conexión directa a red 220Vac con interruptor
- **Totalmente funcionales, con un gran atractivo visual**
- Contenido personalizable (consultar condiciones)
- *Dimensions: 520 x 470 x 240 mm*
- *Direct connection to 220VAC mains with switch*
- **Fully functional, with great visual appeal**
- *Customizable content (see conditions)*

### EXDSL5247ESP-EXPOSITOR PERFILES Y TIRAS LED / LED PROFILES AND STRIPS DISPLAY



#### Contenido

- 8 Muestras de perfiles de aluminio para led.
- 1 Muestra del rango de temperaturas de color.
- 1 Muestra del rango de colores.

#### Contents:

- 8 LED aluminum profile samples
- 1 sample of the color temperature range.
- 1 sample of the color range

### EXDSGV52447ESP-EXPOSITOR GENERICO VEHÍCULOS / GENERIC VEHICLE DISPLAY



#### Contenido

- 1 Caja de luz personalizable.
- 1 Cruz LED decorativa.
- 1 Letrero animado programable RGB.
- 2 Luces LED para interior de vehículo.
- 1 Bandera ESPAÑA.

#### Contents:

- 1 Customizable light box
- 1 Decorative LED cross.
- 1 Programmable RGB animated sign
- 2 LED lights for the interior of vehicle.
- 1 Spanish flag

### EXDSBL5247ESP-EXPOSITOR BANDERAS LED / LED FLAGS DISPLAY



Diseñado para mostrar de forma atractiva nuestra colección de banderas LED, ideales para la decoración de vehículos, comercios y espacios personales.

- 3 banderas led de exposición ESPAÑA-FRANCIA-PORTUGAL.
- Regulación automática: 33%-66%-99%-SIN OFF.
- Depósito para 18 banderas.

*Designed to attractively display our collection of LED flags, ideal for decorating vehicles, businesses, and personal spaces.*

- 3 led display flags: SPAIN-FRANCE-PORTUGAL
- Automatic regulation: 33%-66%-99%-NO OFF
- Storage for 18 flags

# Tu idea, nuestra creación

## Your idea, our creation

### SISTEMA DE AVISO PARA VESTIDORES DE TIENDA WARNINGS SYSTEM FOR SHOP DRESSING ROOMS



### LIBRE/COMPLETO - LLIURE/COMPLET FREE/COMPLET



### INSTALACIÓN ELÉCTRICA PARA MESA DE TRABAJO ELECTRICAL INSTALLATION FOR WORKING TABLE



**BOEL-TRONIC®** 

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