POWERGEAR®

ON THE RIGHT TRACK

Version: 3.01

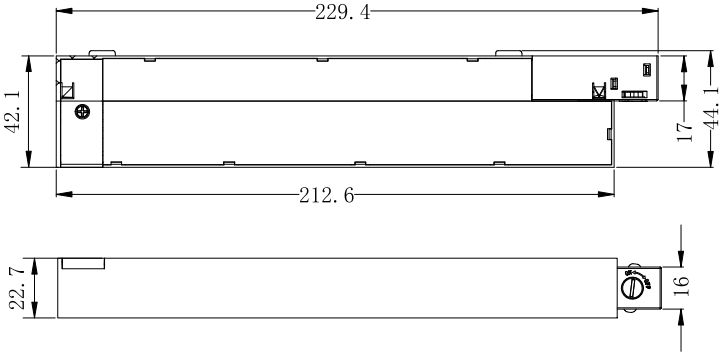
Datasheet I 48V 200W constant voltage power feed with Casambi to DALI



Picture for reference only

Product code	PRO-PS200WB
Color	Black / White
Color code	RAL 9011/9010
Main materials	PC UL94V0+Copper
Inner package QTY	1 pcs
Unit weight	275 g
Outer package QTY	24 pcs
Gross weight	7.35 Kg
Package size	250*220*210mm
Voltage & Max.load	100~240Vac,50/60Hz

Dimensions



Features:
1.Implement GaN Mosfet
2.High efficiency ＞94%,reduce heat loss＞15%
3.High switching frequency,high power density, ultra compact size
4.Adopting a digital control chip with fault reading function.
5.Casambi to DALI dimming module inside

Notes：
Applied to POWERGEAR 48V low voltage track system only.

CASAMBI

Specification

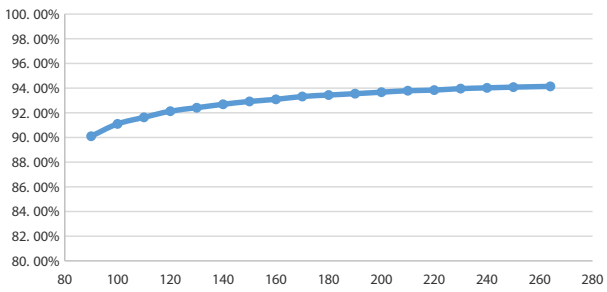
Voltage(Uin)	Nominal Voltage:100~240Vac; AC Voltage:90-265Vac
Current(Iin)	1800mA Max. @Full Load, 230Vac
THD	＜9%, @Full Load, 120Vac & 230Vac 50/60Hz
Power factor	＞0.98, @Full Load, 120Vac & 230Vac 50/60Hz
Efficiency	92% @Full Load 120Vac & 94% @ Full Load 230Vac
Inrush current	＜36A (50% Ipeak, twidth=7.0us@AC230V)
Voltage(Uout)	48Vdc ±5%
Current(Iout)	4170mA Max. ±5% @230vac,3130mA Max. ±5% @120Vac
Power(Pout)	200W @230Vac,150W @120Vac
Standards	EMC:EN61347-2-13 EN55015
Ta / Tc:	0°C~40°C / 65°C
Surge:	L / N 1Kv acc to. EN61547 Clause 5.7
Protection	Short-circuit, Open-circuit, Overvoltage
Expected Lifetime	50.000 hours @ Tc 65°C

Voltage Ripple 200mV
(<1000Hz, ripple/average)

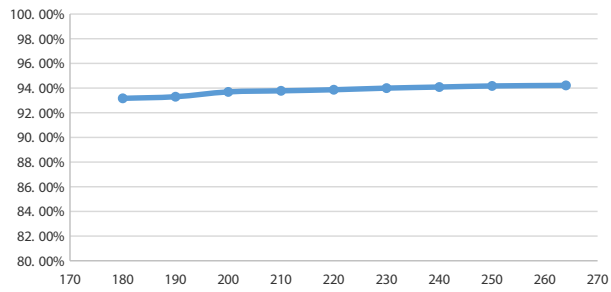
ISO 9001:2005 CQC ISO 14001:2005 CQC CE CQC RoHS IP IP20 F

Driver Typical Specification

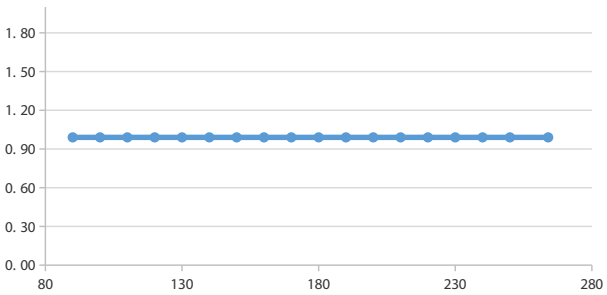
EFF VS Uin (@48V 150W)



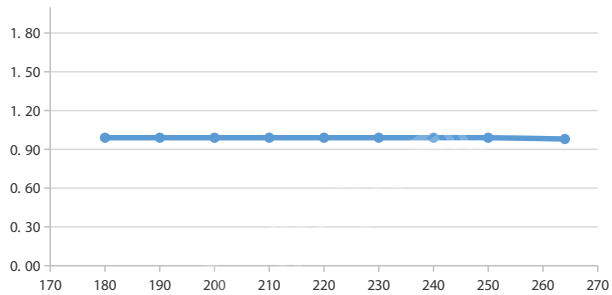
EFF VS Uin (@48V 200W)



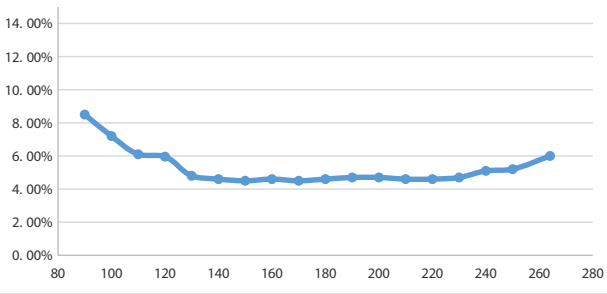
PF VS Uin (@48V 150W)



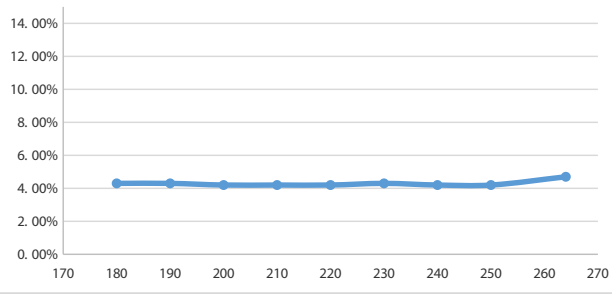
PF VS Uin (@48V 200W)



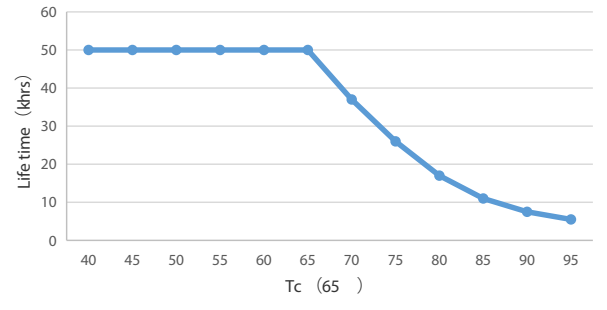
THD VS Uin (@48V 150W)



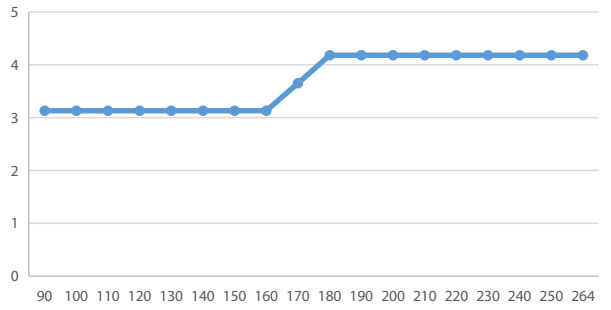
THD VS Uin (@48V 200W)



Life Time Curve



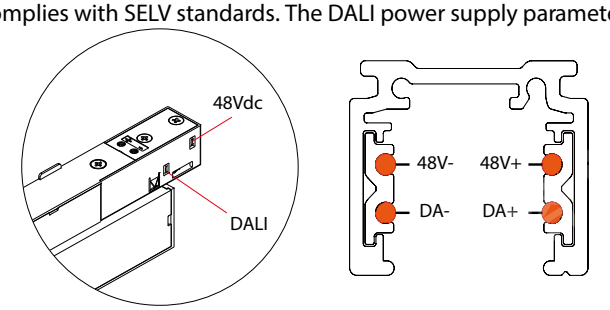
Static Characteristic （@48V 150W & 200W）



CASAMBI Function & Setting

1, This product is equipped with a built-in Casambi wireless module, which connects to each other through the 2.4GHz Bluetooth Mesh to the Casambi App. It is recommended that the communication distance between the product and the mobile phone should not exceed 25 meters.

2, This product can convert Casambi wireless control signals into DALI dimming signals, and meet for DALI 2 there is an DALI power supply that complies with SELV standards. The DALI power supply parameters are: 16Vdc, 50mA Max.



3, The maximum quantity of DALI lights can be carried 8PCS. In actual use, the power redundancy of the driver should be considered (Note: The final quantity of lights is calculated as follows)

Example: When the input voltage is 220-240V, the maximum output power is 200W, which is calculated at 85% design redundancy.

①, All DALI lamps power is 6W, Min (200W*0.85/6W=28, 8), the Max. quantity of carrying lights are 8PCS.

②, All DALI lamps power is 22W, Min (200W*0.85/22W=7, 8), the Max. quantity of carrying lights are 7PCS.

4, iOS users can search for "casambi" through the App Store and download it, while Android users can download through website https://app.casambi.com/app

CASAMBI

5, Before setting up,please turn on the Bluetooth function on your phoneUsers can choose the right DALI fixture through the "change profile" (① DALI broadcast/② DALI broadcast TW/③ DALI addressable, and follow the instructions below.

Open Casambi App

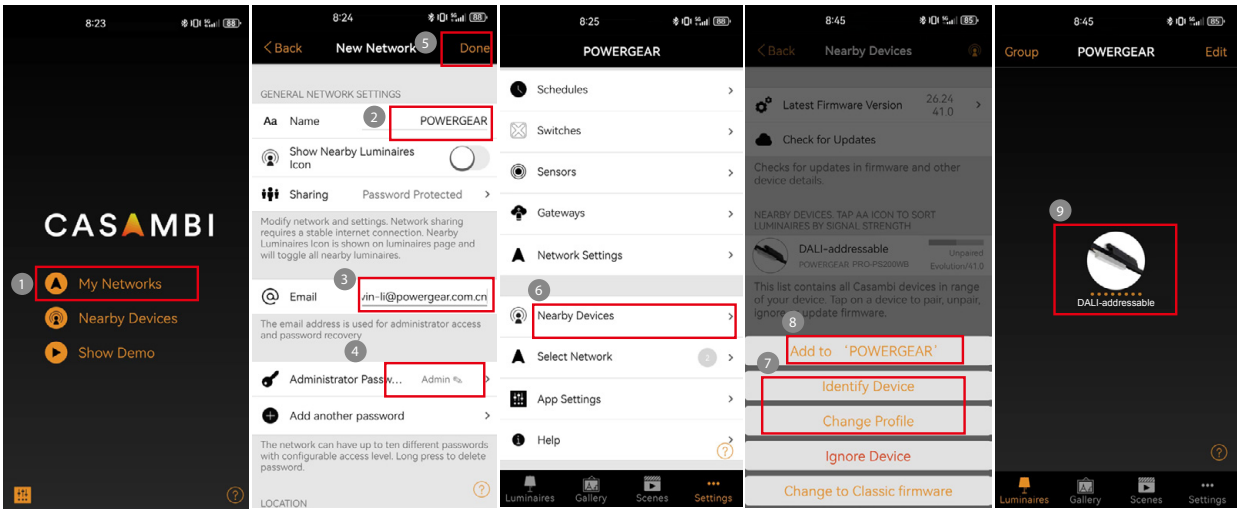
①, Click on "My Networks".

②-⑤, Create a new network, and set the name/email/password etc.

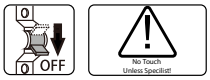
⑥-⑦, Find the nearby devices, identify device, add to your network.

⑧, After completion, you can proceed with daily operations.

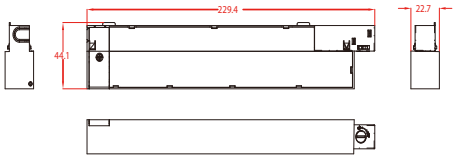
"Picture for reference only"



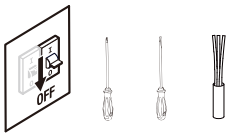
Installation please read carefully before installing



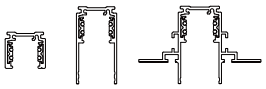
Product dimension:

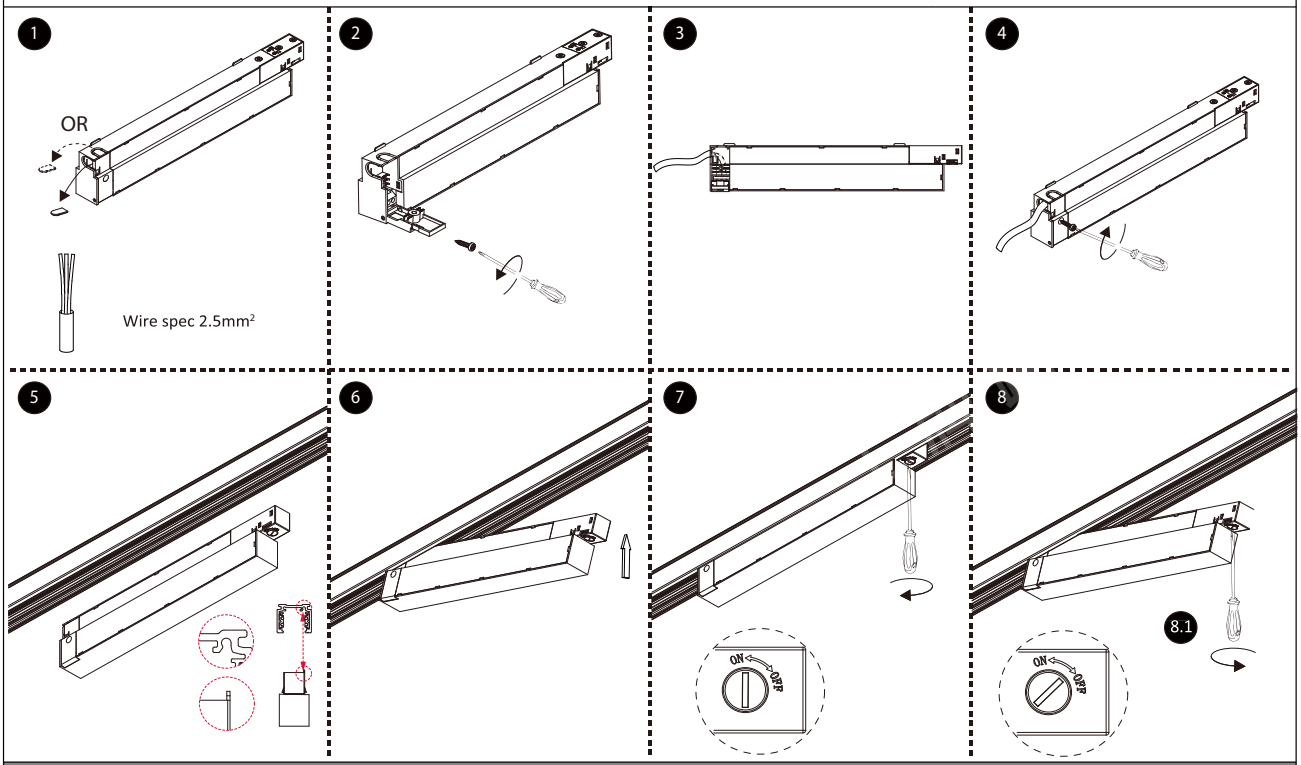


Tools :



Compatibility :





Troubleshooting

1.Can not be installed into the tarck: please note that step 5 has direction restrictions.
2.No electricity:please make sure step 3 wiring correct/firm, and switch to “ON” after step 7.

Disclaimer

1.It is forbidden to apply paint, glue, etc. to this product.
2.It is recommended to use POWERGEAR track system or the promised brand track.
3.This product is suitable for indoors, not outdoors.
4.This product has passed the safety and electromagnetic compatibility certification, because the margin of electromagnetic compatibility is related to the length of the lamp wire and the wiring method, please reconfirm before use.
5.If the structure or wiring of this product is not used/modified according to the instructions, resulting in damage to this product or related products, POWERGEAR doesn’t continue to maintain the after-sales commitment.
6.Product optimization and version upgrade will not be prior noticed. Please refer to the actual product received. If you have any questions, please contact our sales staff in time.
7.POWERGEAR reserves the right of final interpretation of this product.

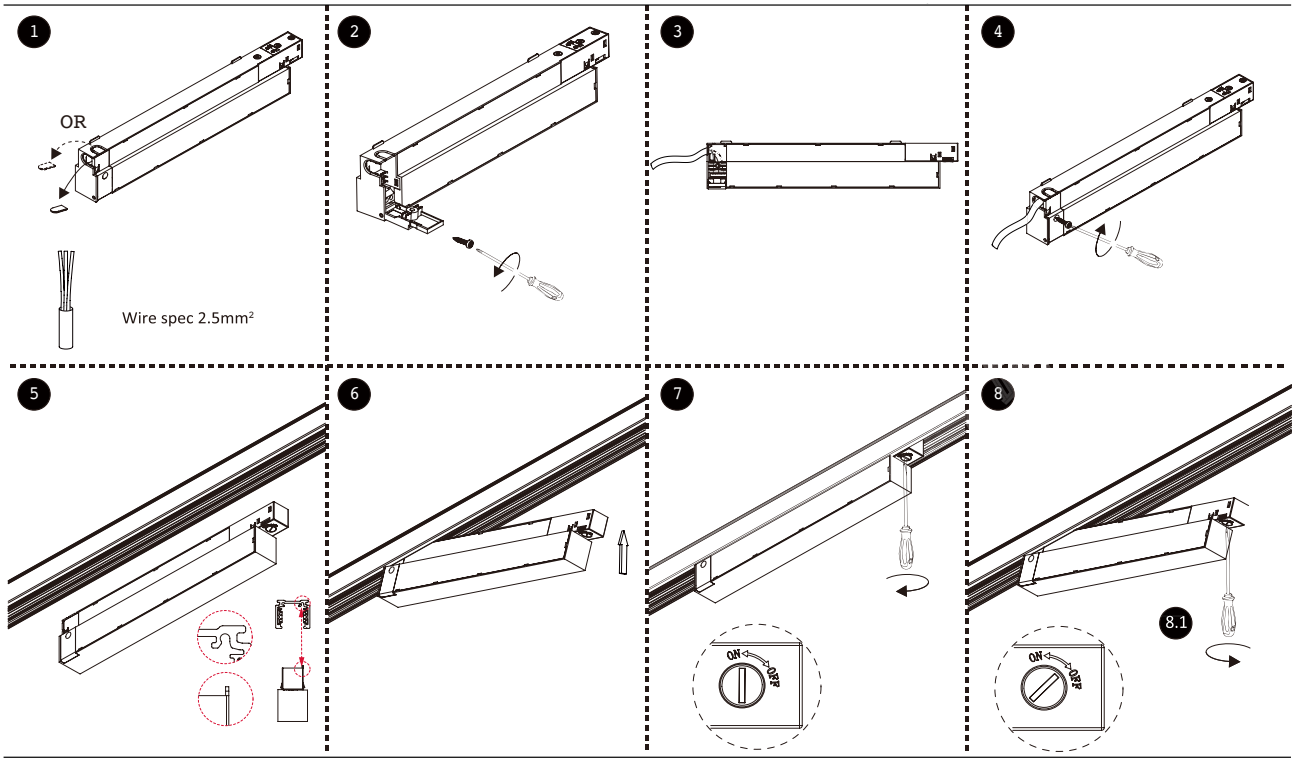
Notes:
1.The LED driver relies upon the luminaire enclosure for protection against accidental contact with live parts.
2.The LED driver is used for track system mounted on ceiling.
3.The components are unsuitable for the connection of inductive loads.
4.It is the user's responsibility to ensure electrical, mechanical and thermal compatibility between the track system and luminaires attached to it.

FUENTE SLIM DIMERIZABLE CASAMBI DALI

EFICIENCIA **92%**
THD **<9%**
PF **0,98**



Instalación



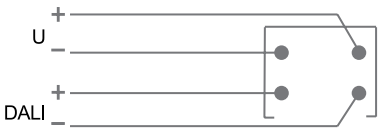
¿Cuántos artefactos se pueden conectar por cada fuente?

- 10-12 unidades para TLV55(15w) Max
- 25 unidades TLV35 (7W) Max
- 17 unidades MXB12 (10W) Max

¿Son adressables los equipos?

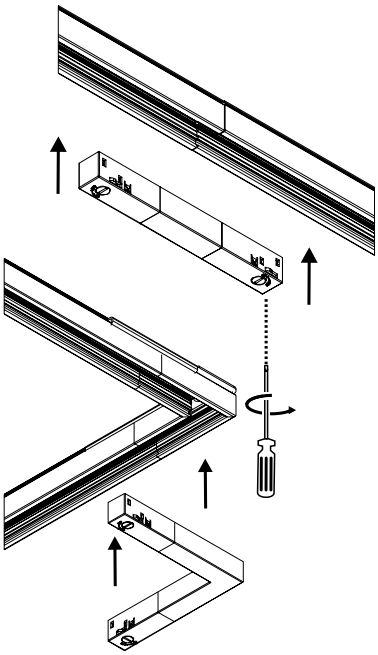
Sí.

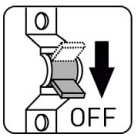
La fuente de alimentación se puede utilizar en cualquier punto del riel. Es necesario considerar la polarización del riel y de sus luminarias. Podría ser necesario ajustar la dirección de la polaridad de la fuente.

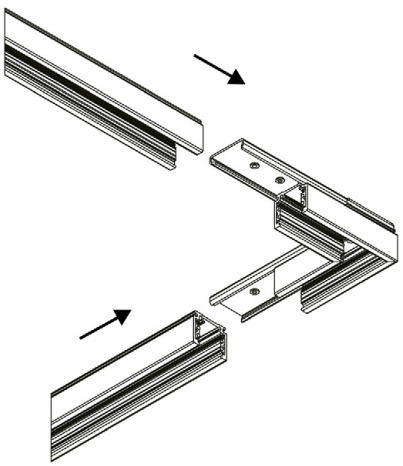


48V 15A Max.

Instalación





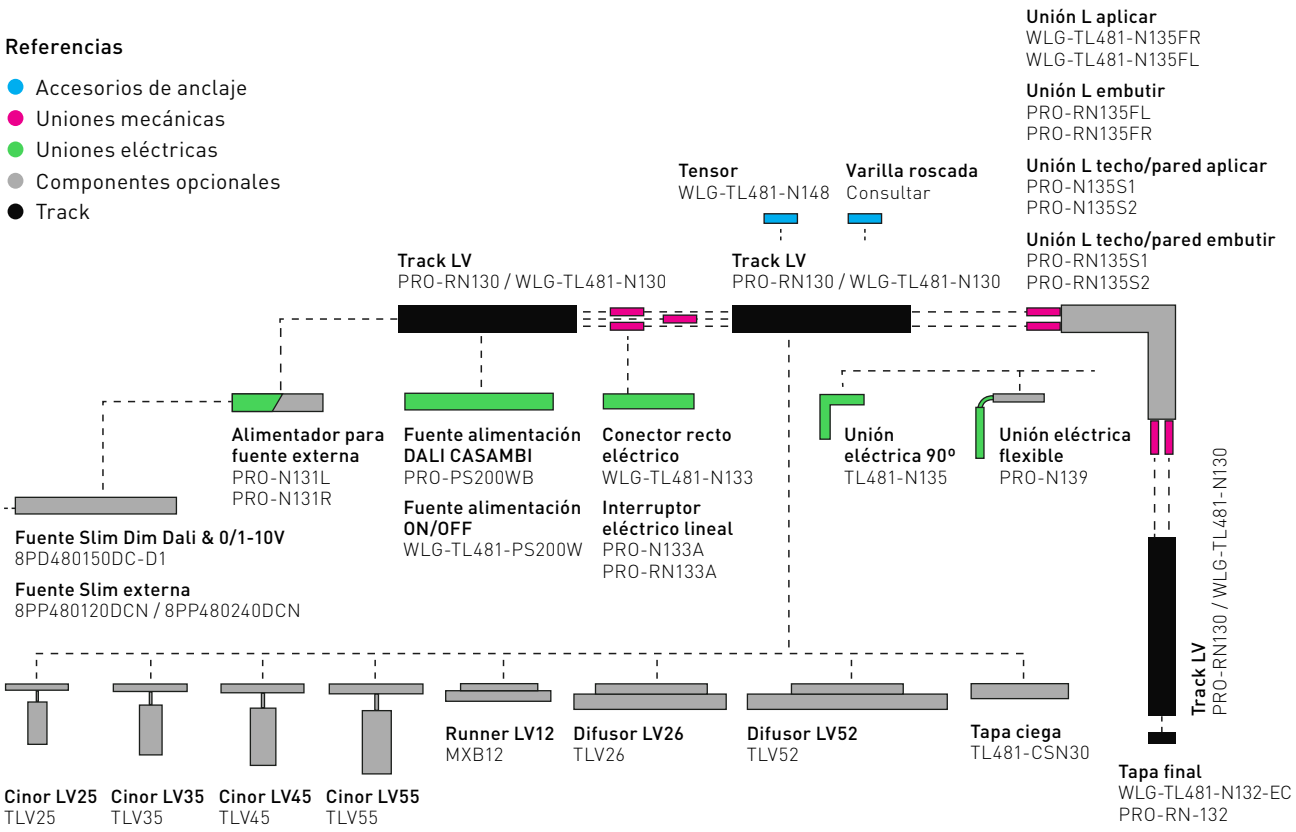


SISTEMA LINEAL 48V

Componentes del sistema 48V y sus productos asociados

Referencias

- Accesorios de anclaje
- Uniones mecánicas
- Uniones eléctricas
- Componentes opcionales
- Track



Componentes del sistema

	CODIGO	DESCRIPCION
	PRO-RN130-B	Riel para embutir 3000 mm. 768W por circuito (DC48V 16A). Negro.
	WLG-TL481-N130	Riel para montaje superficial o suspensión 3000 mm.
	PRO-N135S1-W/B	Unión L interna. Blanco o negro.
	PRO-N135S2-W/B	Unión L externa. Blanco o negro.
	PRO-RN135S1-B	Unión L interna embutida. Negro.
	PRO-RN135S2-B	Unión L externa embutida. Negro.
	PRO-RN135FL-B	Unión L mecánica embutir. Izq. Negro. Va con conector eléctrico Pro-N 135.
	PRO-RN135FR-B	Unión L mecánica embutir. Der. Negro. Va con conector eléctrico Pro-N 135.
	WLG-TL481-N135FR-W/B	Unión L mecánica para aplicar. Izquierdo. Blanco o negro.
	WLG-TL481-N135FL-W/B	Tapa ciega frontal. Blanco o negro.
	WLG-TL481-CSN30-W/B	Tapa ciega frontal. Blanco o negro.
	WLG-TL481-N148-W/B	2 Tensores. Montaje de suspensión. Blanco o negro.
	PRO-RN-132	2 Tapas finales montaje embutido. Negro.

	CODIGO	DESCRIPCION
	WLG-TL481-N132-EC-W/B	2 Tapas finales montaje superficial o suspensión. Blanco o negro.
	PRO-N131L-B/W	Alimentador para fuente externa. Izquierdo. Blanco o negro.
	PRO-N131R-B/W	Alimentador para fuente externa. Derecho. Blanco o negro.
	WLG-TL481-N133-B/W	Conector recto eléctrico. Blanco o negro.
	PRO-N133A	Interruptor eléctrico lineal. Acabados blanco o negro.
	PRO-RN133A	Interruptor eléctrico lineal. Acabados blanco o negro.
	WLG-TL481-N135-B/W	Conector L eléctrico. Blanco o negro.
	PRO-N139-B/W	Unión eléctrica flexible. Blanco o negro.
	PRO-PS200WB-B/W	Fuente blanca DALI-Casambi. Blanco o negro.
	WLG-TL481-PS200W-W/B	Fuente de alimentación 200W. Blanco o negro.
	8PP480240DCN	Fuente Slim externa 240W.
	8PP480120DCN	Fuente Slim externa 120W.
	8PD480150DC-D1	Fuente Slim dim Dali & 1-10V.