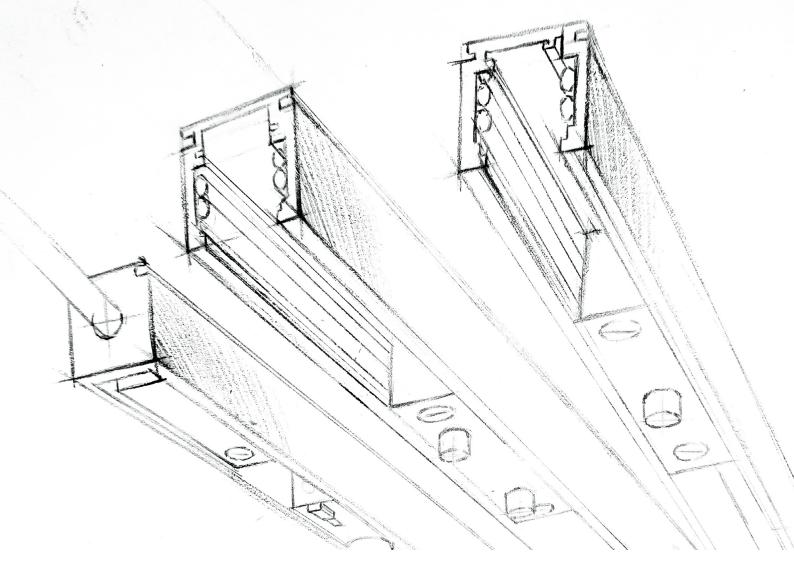


# ON THE RIGHT TRACK

Lighting track system and adaptor



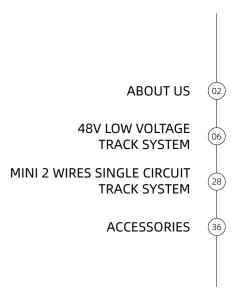
## **ABOUT US**

POWERGEAR is a leading brand of professional lighting track systems manufacturer in China. Its product line covers 3 circuits(3-phase), 2 circuits, single circuit, 48Vdc and DALI lighting tracks plus complete range of accessories, and series of intrack driver adaptors.

POWERGEAR track systems offer precise and reliable connectivity for professional lighting applications. Our tracks and adaptors are compatible with major brand in Europe and North America.

The comprehensive range of innovative accessories, like the twisted "L" and "T" connectors give the designer maximum freedom to create the ultimate track plan. The track can easily be shortened and the EZCLICK mounting features make the track system quickly and easily to install. Our products carry ENEC, UL, CE, CQC and SAA certifications which are relevant for the global market.

# **CONTENTS**







温室气体排放核査

兹证明:

东莞天盛电子制品有限公司 中国 广东省 东莞市 塘厦镇

Dong Guan Tian Sheng Optic-tronics Corp. No. 8 and 10, Kuiqiao Road Tangxia Town Dongguan

CERTIFICATE

### **PRODUCT CERTIFICATE**

CERTIFICATE NO.: CQC20010279308

NAME AND ADDRESS OF THE APPLICANT

Dong Guan Tian Sheng Electronic Production Corp.
No.10, Kui Qiao Road, 4th Village, Tang Xia Town, Dong Guan City, Guang Dong, China

NAME AND ADDRESS OF THE MANUFACTURER

Dong Guan Tian Sheng Electronic Production Corp.

No.10, Kui Qiao Road, 4th Village, Tang Xia Town, Dong Guan City, Guang Dong, Ci

NAME AND ADDRESS OF THE FACTORY

Dong Guan Tian Sheng Electronic Production Corp. (V026529) No.10, Kui Qiao Road, 4th Village, Tang Xia Town, Dong Guan City, Guang Don PRODUCT NAME, MODEL AND SPECIFICATION

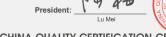
Electrical Supply Track Systems For Luminaires (Track Coupler (Class II) Inseparably Assembled from A.C. Supplied Electronic Controlgear For LED Modules, ta: 35℃, tc: 65℃, bSt 代表:

SELV)
See Appendix. 220-240V~ 50/60Hz

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS GB/T 13961-2008;GB 7000.1-2015;GB/T 17743-2017;GB 17625.1-2012

TYPE OF CERTIFICATION SCHEMES Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspec

This is to certify that the above mentioned product(s) complies with the requirements of certific rules of CQC12-465431-2018 . Valid from: Dec.22,2020 lidity of the certificate is subject to positive result of the reg



CHINA QUALITY CERTIFICATION CENTRE

Section 9,No.188,Nansihuan XIIu, Beijing 100070 P.R.China http://www.cqc.com.cn

CFV 772949

As a result of carrying out verification procedures, it is the opinion of BSI with reasonable assurance that: 基于核查排集。BSI 曲具合理保证等级声明如下。

The total Greenhouse Gas Emissions for the year 2021 of Dong Guan Tian Sheng Optic-tronics Corp., is 55175 tonnes of CO.5 Equivalent, including: 东莞天港电子制品有限公司 2021 年温至气林排放总量为 55176 电二氧化碳当量 包括。
- Direct GHe emissions 竟接量或性排散。100 mess CO.9 £100 电二氧化碳当量 - Indirect GHG emissions from imported energy 输入振源则是固定作用操作。100 value CO.9 £100 电二氧化碳当量 - Indirect GHG emissions from products used by organization 组形使用产品的则接温室气体排散。16322 电二氧化碳当量 - Indirect GHG emissions from products used by organization 组形使用产品的则接温室气体排散。16322 电二极代离音量 - Indirect GHG emissions associated with the use of products from the organization 使用未组织产品相关的则接温室气体排散。18312 tonnes CO.9 £101 电二氧化离音量 - Indirect GHG emissions associated with the use of products from the organization 使用未组织产品相关的则接温室气体排散。18312 tonnes CO.9 £101 电二氧化离音量

16322 吨二氧化阀当最
- Indirect GIKG emissions associated with the use of products from the organization 使用本租积产品相关的间接温室气体 排放。36113 tonnes CDte 36113 吨二氧化碳当量
- Indirect GHG emissions from other sources 汽车灌肠间接温室气体排放。Not quantified 未量化
- No material misstatements for the year 2021 Greenhouse Gas Emissions calculation were revealed.
2021 年温室气体排放计算未发现实践性错误陈述
- Data quality was considered acceptable in meeting the principles as set out in ISO 14064-1:2018.
温室气体数据质量经验证符合ISO14064-1:2018的要求。

首次发证日期: 2022-11-21 最新发证日期: 2022-11-21

...making excellence a habit."

Page: 1 of 1

B.T.M. Holtus Managing Director

e number: 35-125189

O Integral publication of this

The ENEC certification mark may be applied to the product as spe and under the conditions of the ENEC certification agreement.

# **COMPANY PROFILE**

The manufacturer of POWERGEAR, DONG GUAN TIAN SHENG OPTIC-TRONICS CORP. is an ISO9001 and ISO14001 certified factory based in China mainland, who has more than 20 years of rich experience for OEM/ODM business and R&D development.

With highly vertical integrated production facilities and the only automatic facilities for track production in Asia, it ensures our efficient production and stable quality, which enables us to provide high quality products and fast delivery service to customers all over the world.





# **BUSINESS PHILOSOPHY**

POWERGEAR is developing a strong position in the professional lighting market globally. Our philosophy is to provide our customers with the best tailor made lighting solutions and customer care. We strive for continuous development in our product range of connected lighting systems.

To guarantee cost-effectiveness and flexibility, we make use of our own manufacturing facilities with our products being produced under all relevant international quality standards and related certifications.

We invest in the long-term success of our individual clients and partners, and go to incredible lengths to ensure mutual success.

Every day our team is working hard to achieve customer satisfaction and will provide you with excellent customer sales support and after-sales service.

















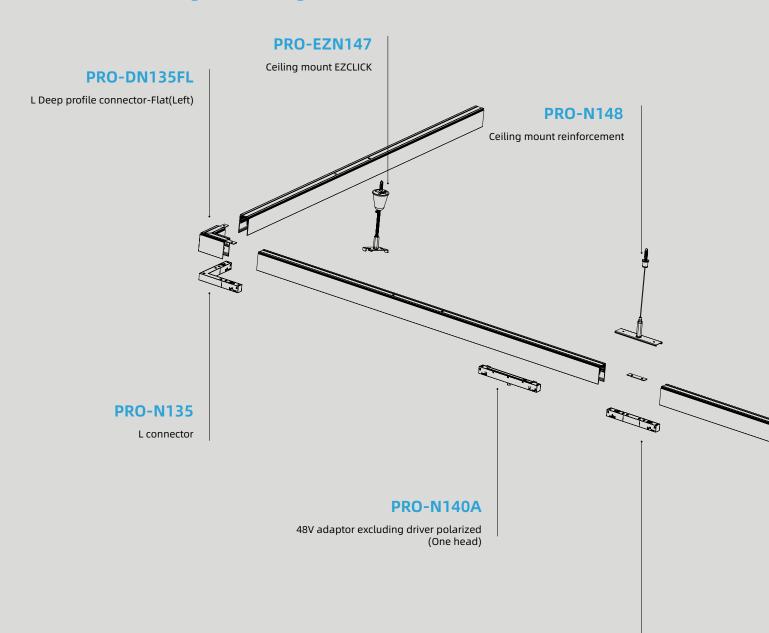




 ${\tt POWERGEAR\ low\ voltage\ 48V\ track\ system\ is\ a\ high\ reliability\ track\ system\ that}$  $combines\ lighting\ design\ application,\ site\ construction,\ and\ user\ experience.$ In the connector, we pioneered the use of copper and wire for "surface contact" structure and the use of "mechanical buckle type" structure to reduce contact resistance, to minimize line loss and voltage drop problems in low voltage track. At the same time, in order to ensure the reliability of the light continuous switch, the track adapter copper uses the "hidden" design, which is completely different from other brands of low voltage track adaptors. Today, we also invent a new product Press& Lock track adaptor, which can meet the requirements of a variety of LED lighting layout.

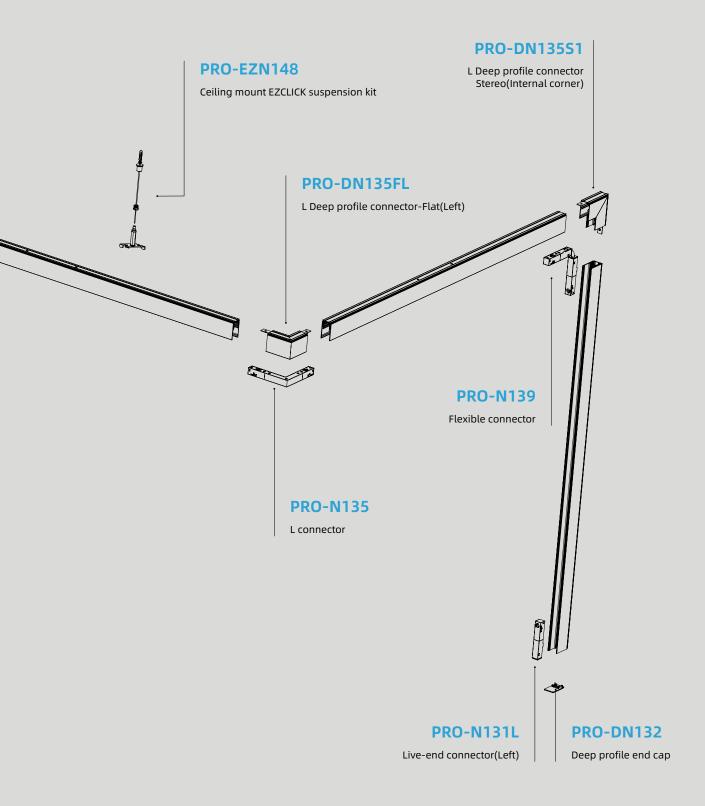
It can be directly surface mounted, suspended, and recessed into the ceiling without the bridge frame. It is recommended for modern simple design style of indoor lighting space.

# 48V Low voltage track diagram



**PRO-N133** 

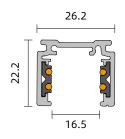
I connector



# 48V Surface mounted track system



Color: □■

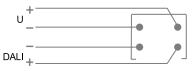




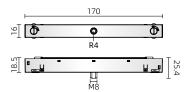
48V 2\*16A Max.

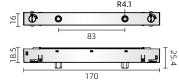


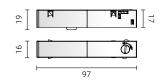
48V 16A Max.+DALI signal connection



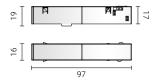
Model No.	Track length	Profile material	Package	Color
PRO-N110	1000(mm)	Aluminum extrusion	1 / 12	W□B■
PRO-N120	2000(mm)	Aluminum extrusion	1/9	W□B■
PRO-N130	3000(mm)	Aluminum extrusion	1/6	W□B■
PRO-N1400	4000(mm)	Aluminum extrusion	1/6	W□B■



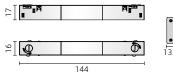




48V Adaptor excluding driver polarized(One head)	48V Adaptor excluding driver polarized(Double heads)	Live-end connector(Left)
PRO-N140A	PRO-N140B	PRO-N131L
1 / 150	1 / 150	1 / 200

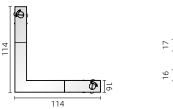


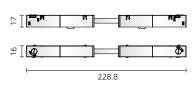


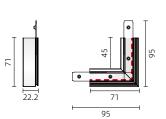


13	48 .2

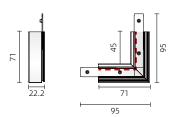
Live-end connector(Right)	End cap	l connector
PRO-N131R	PRO-N132	PRO-N133
1 / 200	1 / 1000	1 / 150

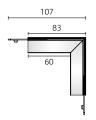


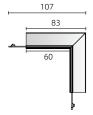




L connector	Flexible connector	L Profile connector-Flat(Left)
PRO-N135	PRO-N139	PRO-N135FL
1 / 144	1 / 150	1 / 60



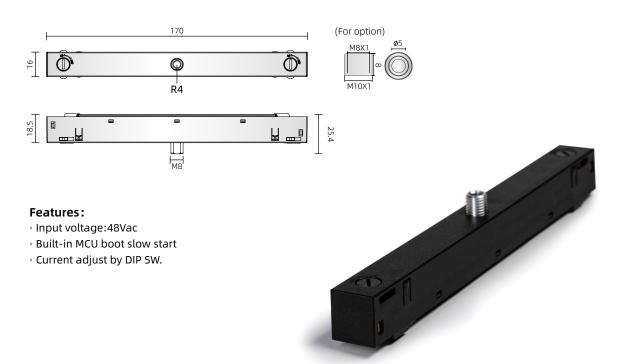


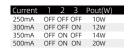


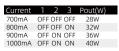
L Profile connector-Flat(Right)	L Profile connector-Stereo (Internal corner)	L Profile connector-Stereo (External corner)
PRO-N135FR	PRO-N135S1	PRO-N135S2
1 / 60	1 / 60	1 / 60



### Color □■



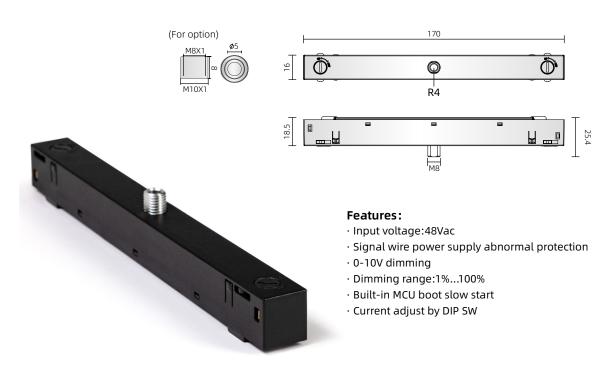






	PRO-N140A-00
	Specification
Voltage	Nominal Voltage: 48Vdc; AC Voltage: 45-51Vdc
Current	1000mA Max. @48Vdc
Voltage	6-40Vdc
Current	250/300/350/500/700/800/900/1000mA ±5%
Power	10W/12W/14W/20W/28W/32W/36W/40W
Start-up delay	2.5 S Max
Efficiency	> 92% @Full Load
Ta / Tc	0° C~35° C / 70° C
Standards	EN55015, IEC61000
Storage environment	-2080°C , 10-85%RH
Lifetime	50,000 hours @ Tc 70° C;
Protections	Power supply exception protection, Short-circuit, Open-circuit, Overvoltage

Color □■

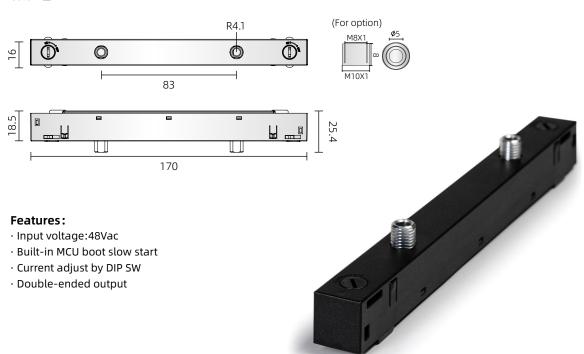


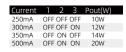
Current		2	3	Pout(W)	Current		2	3	Pout(V
250mA	OFF	OFF	OFF	10W	700mA	OFF	OFF	OFF	28W
300mA	OFF	OFF	ON	12W	800mA	OFF	OFF	ON	32W
350mA	OFF	ON	OFF	14W	900mA	OFF	ON	OFF	36W
500mA	OFF	ON	ON	20W	1000mA	OFF	ON	ON	40W

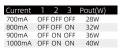


PRO-N140A-010V				
Specification				
Voltage	Nominal Voltage: 48Vdc; AC Voltage: 45-51Vdc			
Current	1000mA Max. @48Vdc			
Voltage	6-40Vdc			
Current	250/300/350/500/700/800/900/1000mA ±5%			
Power	10W/12W/14W/20W/28W/32W/36W/40W			
Start-up delay	2.5 S Max			
Efficiency	> 92% @Full Load			
Ta / Tc	0° C~35° C / 70° C			
Standards	EN55015, IEC61000			
Storage environment	-2080℃ , 0-85%RH			
Lifetime	50,000 hours @ Tc 70° C;			
Protections	Power supply exception protection, Short-circuit, Open-circuit, Overvoltage			
Dimming condition	1100% 0-10Vdimming mode, lout/Vdim, Matching the dimming frequency, suitable for the human eyes			











	PRO-N140B-OO				
	Specification				
Voltage	Nominal Voltage: 48Vdc; AC Voltage: 45-51Vdc				
Current	1000mA Max. @48Vdc				
Voltage	6-40Vdc				
Current	250/300/350/500/700/800/900/1000mA ±5%				
Power	10W/12W/14W/20W/28W/32W/36W/40W				
Start-up delay	2.5 S Max				
Efficiency	> 92% @Full Load				
Ta / Tc	0° C~35° C / 70° C				
Standards	EN55015, IEC61000				
Storage environment	-2080°C , 10-85%RH				
Lifetime	50,000 hours @ Tc 70° C;				
Protections	Power supply exception protection, Short-circuit, Open-circuit, Overvoltage				

 Current
 1
 2
 3
 Pout(W)

 700mA
 OFF OFF OFF
 28W

 800mA
 OFF OFF ON
 32W

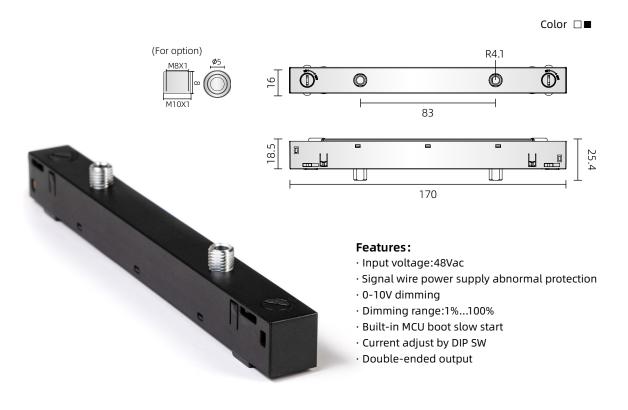
 900mA
 OFF ON OFF
 36W

 1000mA
 OFF ON ON
 40W

DIP Switch

ON

1 2 3



 Current
 1
 2
 3
 Pout(W)

 250mA
 OFF OFF OFF
 10W

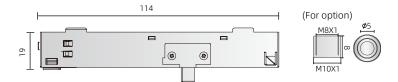
 300mA
 OFF OFF ON
 12W

 350mA
 OFF ON OFF
 14W

 500mA
 OFF ON ON
 20W

PRO-N140B-010V				
Specification				
Voltage	Nominal Voltage: 48Vdc; AC Voltage: 45-51Vdc			
Current	1000mA Max. @48Vdc			
Voltage	6-40Vdc			
Current	250/300/350/500/700/800/900/1000mA ±5%			
Power	10W/12W/14W/20W/28W/32W/36W/40W			
Start-up delay	2.5 S Max			
Efficiency	> 92% @Full Load			
Ta / Tc	0° C~35° C / 70° C			
Standards	EN55015, IEC61000			
Storage environment	-2080℃ , 10-85%RH			
Lifetime	50,000 hours @ Tc 70° C;			
Protections	Power supply exception protection, Short-circuit, Open-circuit, Overvoltage			
Dimming condition	1100% 0-10V dimming mode, lout/Vdim, Matching the dimming frequency, suitable for the human eyes			

### Color □■



### Features:

- · Input voltage:48Vac
- $\cdot$  Built-in MCU boot slow start
- $\cdot$  Current adjust by DIP SW.





Current		_	_	Pout(W)
150mA	OFF	OFF	OFF	6W
200mA	OFF	OFF	ON	8W
250mA	OFF	ON	OFF	10W
300mA	OFF	ON	ON	12W
350mA	ON	OFF	OFF	14W
500mA	ON	OFF	ON	20W
600mA	ON	ON	OFF	24W
700mA	ON	ON	ON	28W

PRO-N140C-OO				
	Specification			
Voltage	Nominal Voltage: 48Vdc; AC Voltage: 45-51Vdc			
Current	700mA Max. @48Vdc			
Voltage	6-40Vdc			
Current	150/200/250/300/350/500/600/700mA ±5%			
Power	6W/8W/10W/12W/14W/20W/24W/28W			
Start-up delay	4S Max			
Efficiency	> 92% @Full Load			
Ta / Tc	0° C~35° C / 65° C			
Standards	EN55015, IEC61000			
Storage environment	-2080℃ , 10-85%RH			
Lifetime	50,000 hours @ Tc 70° C;			

Color □■



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<b>8</b>	® <u> </u>

- $\cdot$  Signal wire power supply abnormal protection
- · Dimming range:1%...100%
- $\cdot$  Built-in MCU boot slow start

### New products in developing:

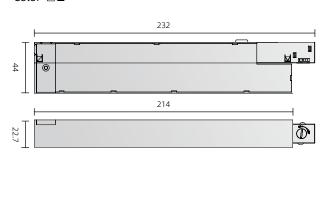
PRO-N140D-DA: DALI dimming

PRO-N140D-DATW: DALI dimming and toning

DIP Switch	Current		2	3	Pout(W)
	150mA	OFF (	OFF	OFF	6W
	200mA	OFF (	OFF	ON	8W
011	250mA	OFF	ON	OFF	10W
ON	300mA	OFF	ON	ON	12W
	350mA	ON (	OFF	OFF	14W
	500mA	ON (	OFF	ON	20W
1 2 3	600mA	ON	ON	OFF	24W
	700mA	ON	ON	ON	28W

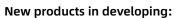
PRO-N140C-010V				
Specification				
Voltage	Nominal Voltage: 48Vdc; AC Voltage: 45-51Vdc			
Current	700mA Max. @48Vdc			
Voltage	6-40Vdc			
Current	150/200/250/300/350/500/600/700mA ±5%			
Power	6W/8W/10W/12W/14W/20W/24W/28W			
Start-up delay	4S Max			
Efficiency	> 92% @Full Load			
Ta / Tc	0° C~35° C / 65° C			
Standards	EN55015, IEC61000			
Storage environment	-2080℃ , 10-85%RH			
Lifetime	50,000 hours @ Tc 70° C;			
Protections	Power supply exception protection, Short-circuit, Open-circuit, Overvoltage			
Dimming condition	1100% 0-10V dimming mode, Matching the dimming frequency, suitable for the human eyes			

### Color □■



### Features:

- · Input voltage:100-240Vac
- · uilt-in GaN MOS, high power density
- · IC built-in fault status reading function
- · Output 200W 48Vdc@230Vac
- · Output 150W 48Vdc@120Vac



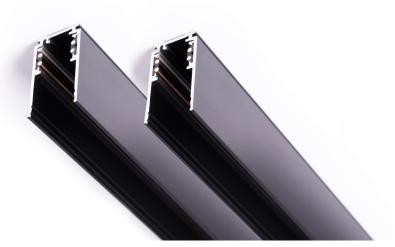
PRO-PS200WA: With wireless 0-10V dimming control function PRO-PS200WB: With wireless DALI dimming control function

Stay tuned for more details.

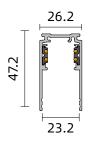
PRO-PS200W			
	Specification		
Voltage	Nominal Voltage: 100~240Vac; AC Voltage 90-264Vac		
Current	1800mA Max. @Full Load, 230Vac		
THD	< 9%, @Full Load, 120Vac&230Vac 50/60Hz		
Power factor	> 0.98, @Full Load, 120Vac&230Vac 50/60Hz		
Efficiency	92% @Full Load, 120Vac & 94% @Full Load 230Vac		
Inrush current	< 36A (Test twidth=7.0us@AC230V at 50% Ipeak)		
Voltage	48Vdc±5%,		
Current	4170mA Max. ±5% @230Vac, 3130mA Max. ±5% @120Vac		
Power	200W@230Vac, 150W @120Vac		
Standards	EMC: EN61347-2-13 EN55015		
Ta / Tc	0° C~40° C / 65° C		
Surge	L/N 1Kv LN/PE 2Kv, acc to. EN 61547 Clause 5.7		
Protection	Short-circuit, Open-circuit, Overvoltage		
Lifetime	50,000 hours @ Tc 65° C;		



# 48V Surface mounted deep profile track system



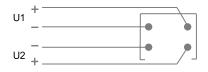
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### 48V 2\*16A Max.

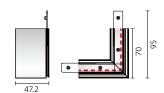


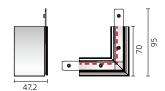
### 48V 16A Max.+DALI signal connection



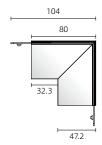
Track length	Profile material	Package	Color
1000(mm)	Aluminum extrusion	1 / 8	W□B■
2000(mm)	Aluminum extrusion	1 / 8	W□B■
3000(mm)	Aluminum extrusion	1/6	W□B■
4000(mm)	Aluminum extrusion	1/6	W□B■
	1000(mm) 2000(mm) 3000(mm)	1000(mm)  Aluminum extrusion  2000(mm)  Aluminum extrusion  Aluminum extrusion  Aluminum extrusion  Aluminum	1000(mm) Aluminum

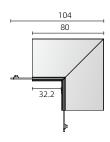






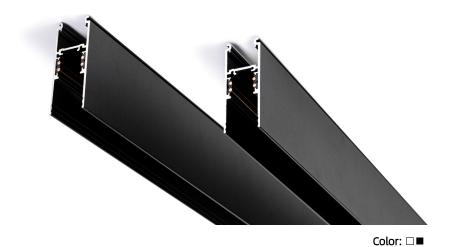
Deep profile end cap	L Deep profile connector-Flat(Left)	L Deep profile connector-Flat(Right)
PRO-DN132	PRO-DN135FL	PRO-DN135FR
1 / 400	1 / 50	1 / 50

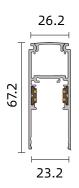




L Deep profile connector-Stereo (Internal corner)	L Deep profile connector-Stereo (External corner)	
PRO-DN135S1	PRO-DN135S2	
1 / 50	1 / 50	

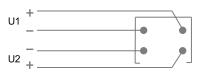
# 48V Surface mounted H profile track system







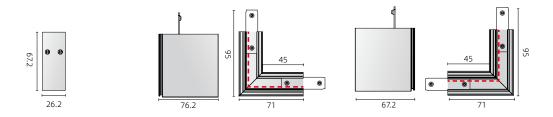
48V 2\*16A Max.



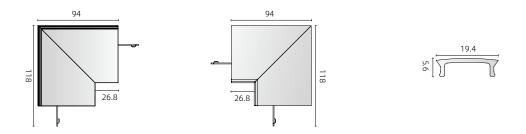
48V 16A Max.+DALI signal connection



Model No.	Track length	Profile material	Package	Color
PRO-HN110	1000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-HN120	2000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-HN130	3000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-HN1400	4000(mm)	Aluminum extrusion	1 / 4	W□B■



H profile end cap	L connector-Flat(Left)	L connector-Flat(Right)
PRO-HN132	PRO-HN135FL	PRO-HN135FR
1 / 400	1 / 50	1 / 50

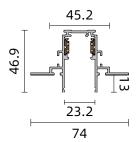


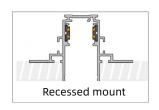
L connector-Stereo (Internal corner)	L connector-Stereo (External corner)	Track cover strip (back)
PRO-HN135S1	PRO-HN135S2	PRO-CSHN10
1 / 50	1 / 50	1 / 50

# 48V Recessed track system(Installation beforehand)



Color: □■

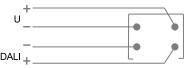




48V 2\*16A Max.

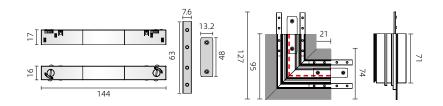


48V 16A Max.+DALI signal connection

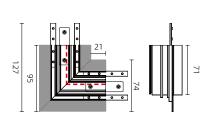


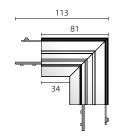
Model No.	Track length	Profile material	Package	Color
PRO-RN110	1000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-RN120	2000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-RN130	3000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-RN1400	4000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-RN130	3000(mm)	extrusion Aluminum extrusion Aluminum	1 / 4	W □ B ■

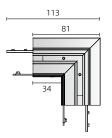




Recessed end cap	Recessed straight connector	L recessed profile connector-Flat (Left)
PRO-RN132	PRO-RN133	PRO-RN135FL
1 / 400	1 / 150	1 / 60







L recessed profile connector-Flat (Right)	L recessed profile connector-Stereo (Internal corner)	L recessed profile connector-Stereo (External corner)
PRO-RN135FR	PRO-RN135S1	PRO-RN135S2
1 / 60	1 / 60	1 / 60

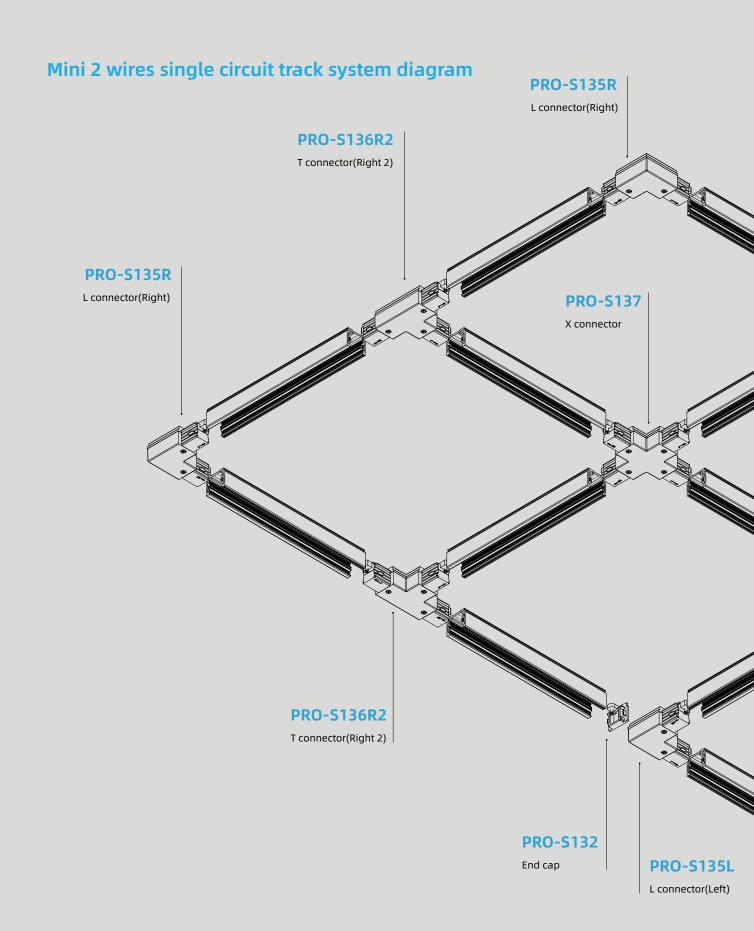
### Mini 2 wires single circuit track system

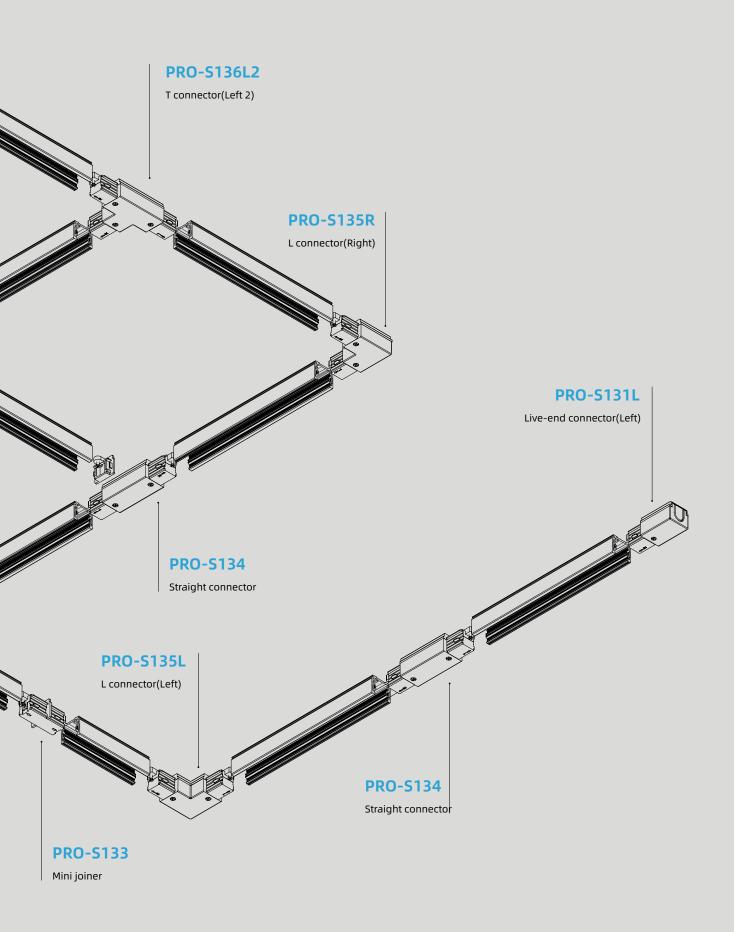
POWERGEAR Mini 2 wires single circuit track system, it is born on the basis of 48V low voltage track system which can create the modern and simple style consistently, but also can avoid the disadvantage of 48V low voltage track system that the load capacity is weak, and too complicated for installation and maintenance

This track system is for 230 Vac mains, and the rated load capacity can reach 3.7 KW, what is greatly expanded the loading capacity of light fittings, and suitable for the light fittings overall at the position. It is recommended to be used for commercial space designed with modern and simple style.







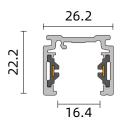


# **MINI 2 WIRES SINGLE CIRCUIT TRACK SYSTEM**

## Mini 2 wires track

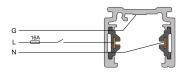


Color: □■

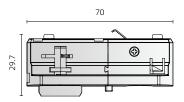




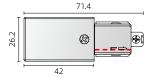
### 1 Phase 230V 16A Max.

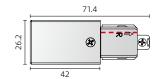


Model No.	Track length	Profile material	Package	Color
PRO-S110	1000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-S120	2000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-S130	3000(mm)	Aluminum extrusion	1 / 4	W□B■
PRO-S1400	4000(mm)	Aluminum extrusion	1 / 4	W□B■



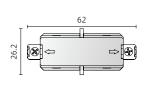
Mini single circuit adaptor
PRO-S140A
1 / 120

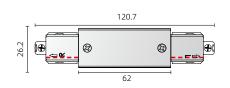


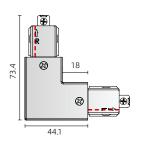




Live-end connector(Left)	Live-end connector(Right)	End cap
PRO-S131L	PRO-S131R	PRO-S132
1/300	1/300	1/1000

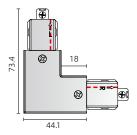


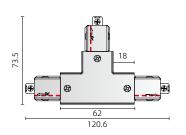


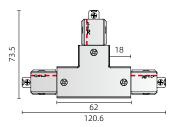


Mini joiner	Straight connector	L connector(Left)
PRO-S133	PRO-5134	PRO-S135L
1/300	1/200	1/100

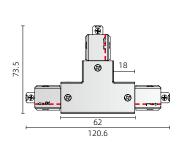
# **MINI 2 WIRES SINGLE CIRCUIT TRACK SYSTEM**

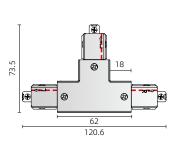


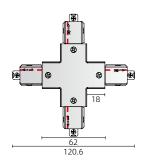




L connector(Right)	T connector(Left 1)	T connector(Left 2)
PRO-S135R	PRO-S136L1	PRO-S136L2
1/100	1/72	1/72



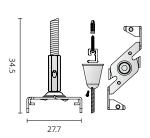


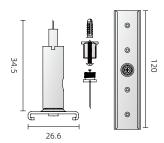


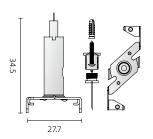
T connector(Right 1)	T connector(Right 2)	X connector
PRO-S136R1	PRO-S136R2	PRO-S137
1/72	1/72	1 / 36



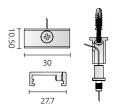
# Suspension kits - Fit for 48V low voltage / Mini 2 wires single circuit track system



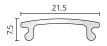




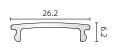
Ceiling mount, EZCLICK suspension kit with 1m rod	Ceiling mount, EZCLICK suspension kit with 1.5m wire	Ceiling mount reinforcement kit with 1.5m wire
PRO-EZN147	PRO-EZN148	PRO-N148
1 / 30	1 / 100	1 / 30

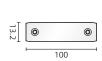


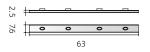




Ceiling mount, suspension kit with 1.5m wire	Suspension kit	Track cover strip for surface mounted track
PRO-N149	PRO-N1SK	PRO-CSN10
1 / 100	1 / 100	1 / 100

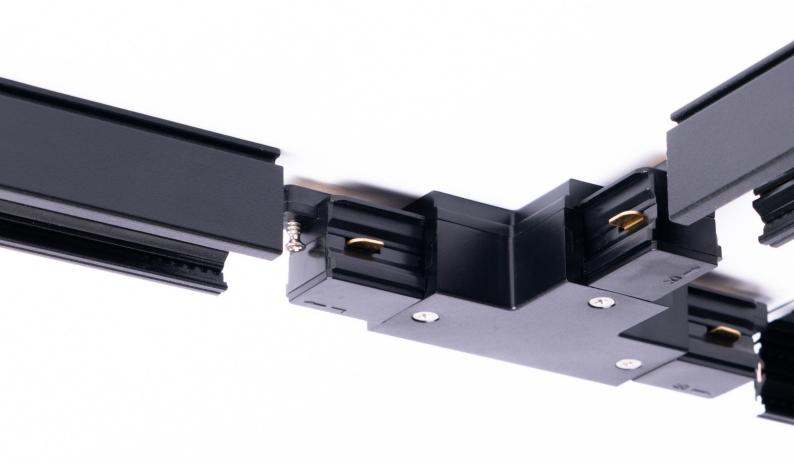






Track cover strip for deep and recessed track	Reinforcement kit for surface mounted track straight connection	Reinforcement plate for recessed track straight connection
PRO-CSRN10	PRO-NC01	PRO-RNC01
1 / 100	1 / 1000	1 / 1200







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