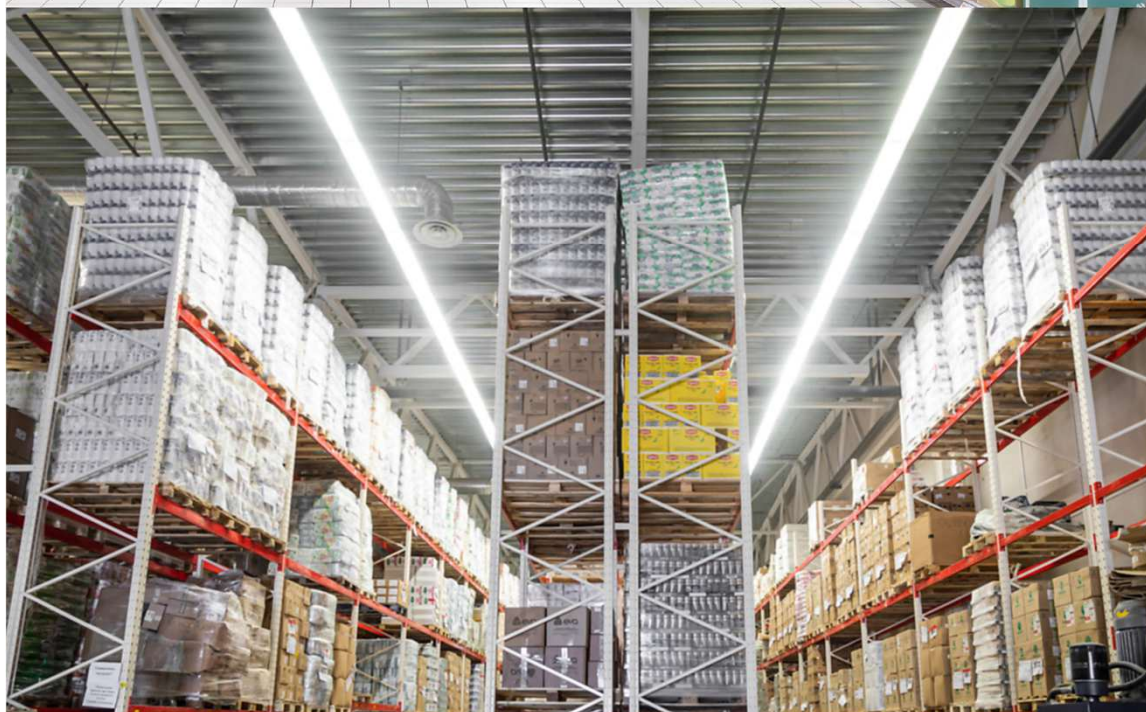


# COMMERCIAL LIGHTING



LED Track Light  
TL151 Series



## Introduction

This series is a new type of high-efficiency linear track light. It is highly flexible to the lighting tasks in the industrial and retail sectors. Type A applies a high-transmission PC optical lens, 30°/60°/90°/30°/90°/double asymmetric 20° to have various lighting distribution. Type B adopts opal cover for uniform illumination. The whole series adopt 4 wires 3 phases universal track adapter, support 6 wires 3 phases DALI version as well, all of which support DIP switch power adjustment. It also can be flexibly combined with track spotlights on the same track rail for general lighting & accent lighting. Applicable for retrofit and new mounting with EU standard track system.

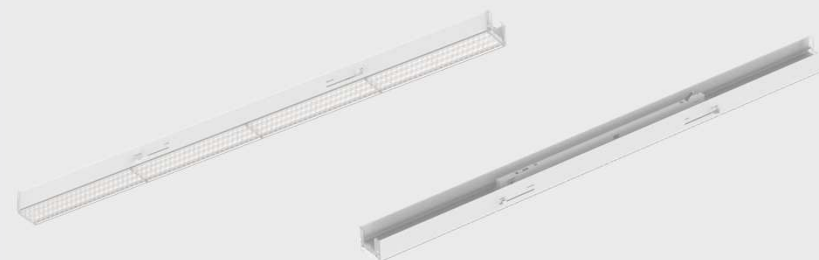
## Features

- High efficiency 180lm/W@4000K
- Adjustable power with DIP switch
- Type A lens design with 30°/60°/90°/30°/90°/Double asymmetric 20° optional, type B opal cover design 120°
- Tool-free mechanical and electrical installation
- Finished color: White RAL9016, Black RAL9005
- Flicker-free driver in track
- Track module wiring: 4 wires 3 phases, 6 wires 3 phases
- Dimming way: DALI dimmable
- Compatible with branded track rail, such as Global, Eutrac, Unipro, Powergear, Ivela, Stucchi

## Application Areas

It's widely applied in shopping mall, supermarket, workshop, warehouse, and other similar commercial, industrial applications.

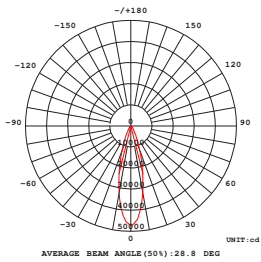
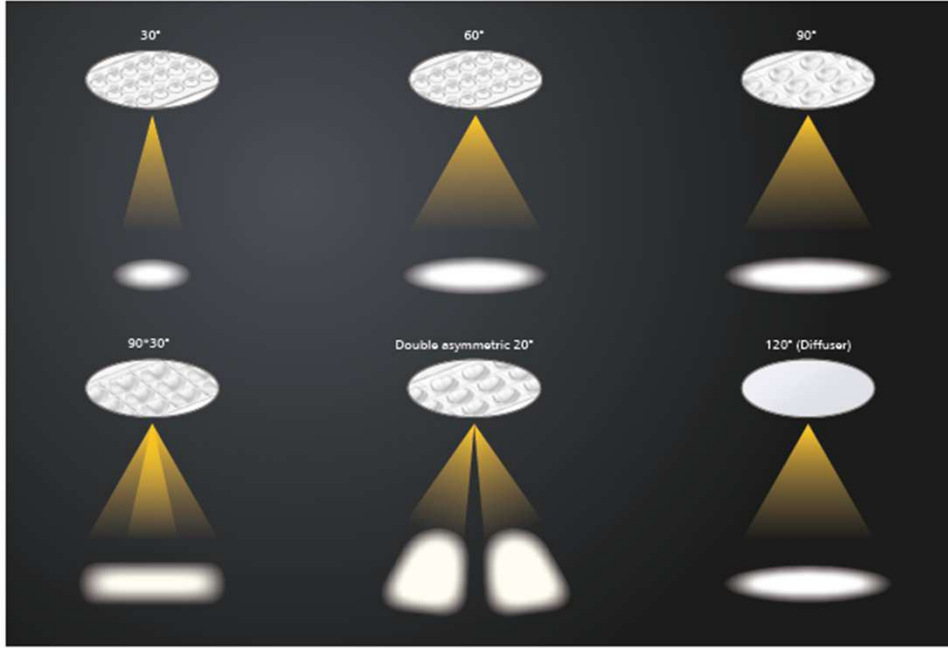
TL151A



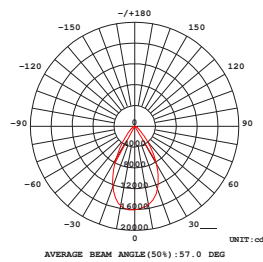
TL151B



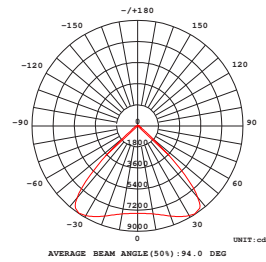
# OPTICS



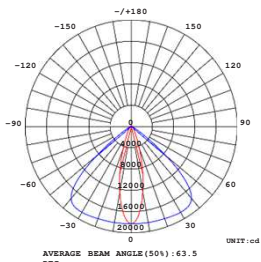
TL151A-1500-100W-4000K-30°



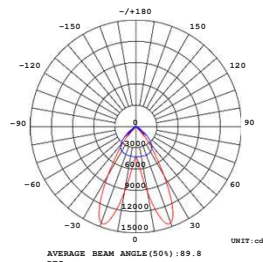
TL151A-1500-100W-4000K-60°



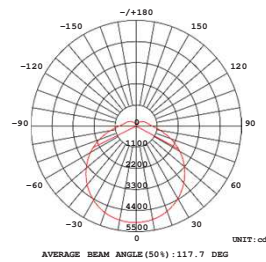
TL151A-1500-100W-4000K-90°



TL151A-1500-100W-4000K-90x30°

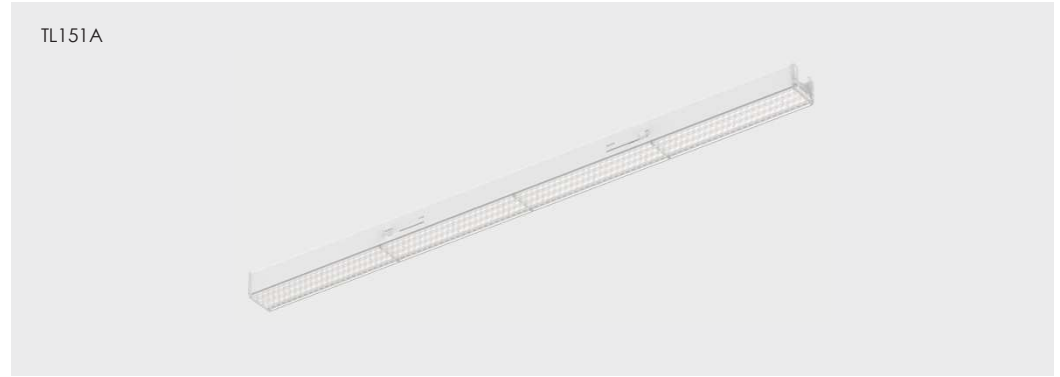


TL151A-1500-100W-4000K Double asymmetric 20°



TL151B-1500-100W-4000K-120°

TL151A



## Technical Data Sheet

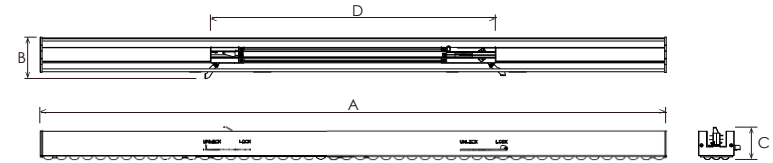
Code	TL151A-600-30W-A4	TL151A-1200-60W-A4	TL151A-1500-75W-A4	TL151A-1500-100W-A4
Dimension(mm)	L605.8*W79.5*H62.5	L1205.8*W79.5*H62.5	L1505.8*W79.5*H62.5	L1505.8*W79.5*H62.5
Cutout(mm)	-			
Watt(W)	30W MAX (26W/22W/20W optional)	60W MAX (53W/46W/39W optional)	75W MAX (67W/59W/51W optional)	100W MAX (90W/80W/70W optional)
Rated Input Voltage	AC220-240V			
Input Voltage	AC198-264V			
LED Module Input	-			
Light Source	SMD			
SDCM	<6			
CCT(K)	CCT: 3000K / 4000K			
CCT Selection DIP Switch	NO			
Luminous Flux (lm) ±5%	30W: 4900-5300 26W: 4200-4800 22W: 3500-4000 20W: 3200-3300	60W: 9600-10600 53W: 8800-9600 46W: 7700-8600 39W: 6500-7200	75W: 12000-13300 67W: 11000-12000 59W: 9500-10600 51W: 8000-9000	100W: 16000-17400 90W: 14400-16000 80W: 12800-14300 70W: 11200-12500
CR180				
Remark: lumen output for black housing will decrease around 10%				
CRI	80			
Beam Angle (°)	30° / 60° / 90° / 90°x30° / Double asymmetric 20°			
UGR	-			
LED Driver	Driver built-in			
Dimming Option	DALI			
Sensor	NO			
Emergency Kits	NO			
Electrical Class	Class I			
Ingress Protection(IP Rating)	IP50 (Only for LED cover), IP20(For other part)			
Impact Resistance(IK Rating)	-			
Product Finishing	White RAL9016, Black RAL9005			
Optics Material	PC			
Housing Material	Aluminium			
Lifetime (hr)	50,000h			
Glow wire test (°C)	750°C			
Operating Temp.(°C)	-20°C~45°C			
Storage Temp.(°C)	-20°C~65°C			
Installation	Track			

TL151B



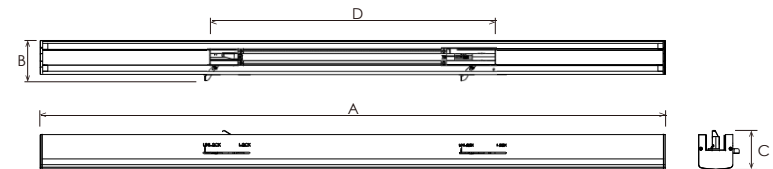
## Technical Data Sheet

Code	TL151B-600-30W-A4	TL151B-1200-60W-A4	TL151B-1500-75W-A4	TL151B-1500-100W-A4
Dimension(mm)	L607.6*W78*H75.2	L1207.6*W78*H75.2	L1507.6*W78*H75.2	L1507.6*W78*H75.2
Cutout(mm)	-			
Watt(W)	30W MAX (26W/22W/20W optional)	60W MAX (53W/46W/39W optional)	75W MAX (67W/59W/51W optional)	100W MAX (90W/80W/70W optional)
Rated Input Voltage	AC220-240V			
Input Voltage	AC198-264V			
LED Module Input	-			
Light Source	SMD			
SDCM	<6			
CCT(K)	CCT: 3000K / 4000K			
CCT Selection DIP Switch	NO			
Luminous Flux (lm) ±5%	30W: 4500-5100 26W: 3900-4400 22W: 3200-3500 20W: 2600-3300	60W: 9300-10600 53W: 8500-9700 46W: 7300-8700 39W: 6200-7200	75W: 11500-13100 67W: 10500-12000 59W: 9100-10600 51W: 7600-9000	100W: 15400-17400 90W: 14100-16300 80W: 12200-14300 70W: 10700-12000
CRI80	-			
<b>Remark: lumen output for black housing will decrease around 10%</b>				
CRI	80			
Beam Angle (°)	120°			
UGR	-			
LED Driver	Driver built-in			
Dimming Option	DALI			
Sensor	NO			
Emergency Kits	NO			
Electrical Class	Class I			
Ingress Protection(IP Rating)	IP50 (Only for LED cover), IP20(For other part)			
Impact Resistance(IK Rating)	-			
Product Finishing	White RAL9016, Black RAL9005			
Optics Material	PC			
Housing Material	Aluminium			
Lifetime (hr)	50,000h			
Glow wire test (°C)	750°C			
Operating Temp.(°C)	-20°C~45°C			
Storage Temp.(°C)	-20°C~65°C			
Installation	Track			



## Measurement

Code	Dimension(mm)				Product Weight (Kg)		Package weight (Kg)		Carton Size (cm)	Qty/CTN	20GP (pcs)	40HQ (pcs)	
	A	B	C	D	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN					
TL151A-600	605.8	79.5	62.5	447.6	605.8*79.5*62.5	0.93	1.3	5.58	8.52	73*30.5*20.5	6	3420	8352
TL151A-1200	1205.8	79.5	62.5	547.4	1205.8*79.5*62.5	1.72	2.39	6.88	10.42	133*21*20.5	4	1680	4080
TL151A-1500	1505.8	79.5	62.5	547.4	1505.8*79.5*62.5	2.065	2.8	4.13	6.64	163*21*12	2	1260	2960



## Measurement

Code	Dimension(mm)				Product Weight (Kg)		Package weight (Kg)		Carton Size (cm)	Qty/CTN	20GP (pcs)	40HQ (pcs)	
	A	B	C	D	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN					
TL151B-600	607.6	78	75.2	447.6	607.6*78*75.2	0.86	1.275	5.16	8.4	73*30.5*22.5	6	3420	7656
TL151B-1200	1207.6	78	75.2	547.4	1207.6*78*75.2	1.6	2.165	6.4	9.57	133*21*22.5	4	1680	3740
TL151B-1500	1507.6	78	75.2	547.4	1507.6*78*75.2	1.95	2.85	3.9	6.5	163*21*12.5	2	1190	2812

## Driver Datasheet(Non-dimmable)

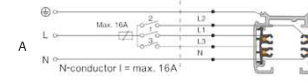
Total load wattage		30W/26W/22W/20W	60W/53W/46W/39W	75W/67W/59W/51W	100W/90W/80W/70W
Output	Rated output current	220/190/150/140mA	430/390/330/290mA	580/500/450/380mA	780/700/600/550mA
	Output Voltage range	DC100-160V			
	Line Regulation	±5%			
	Setup Rise Time	<0.5S			
	Flickering Index	1%(NO RISK)			
	IEC-PST	<1			
	CIE (SVM)	<0.4			
Input	Rated Input Voltage	AC220-240V			
	Input Voltage	AC198-264V			
	Frequency	50/60Hz			
	Rated Input Current	0.151A	0.303A	0.38A	0.56A
	Input Current	0.168A	0.337A	0.42A	0.61A
	Power Factor	> 0.92			
	THD	10%@230V			
	Efficiency	≥0.85%		≥0.93%	
	Inrush current	16A/138us	43.2A/59us	29.8A/65.8us	33A/121us
	No load wattage	<0.5W @230V			
	Stand-by power consumption	<0.5W @230V			
Protection	Short circuit protection	PASS			
	Over voltage protection	PASS			
	Over temperature protection	PASS			
Safety & EMC	Withstand voltage	I/P-FG:1.5KVac,<5mA 60S			
	Isolation Resistance	500VDC, ≥2M Ω			
	Surge	IEC/EN61000-4-5 (L-N:1KV, L/N-PE:2KV)			
	EMC Emission	EN55015, EN61000-3-2			
EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547				

## Driver Datasheet(DALI Dimmable)

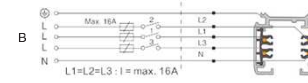
Total load wattage		30W/26W/22W/20W	60W/53W/46W/39W	75W/67W/59W/51W	100W/90W/80W/70W
Output	Rated output current	220/190/150/140mA	430/390/330/290mA	580/500/450/380mA	780/700/600/550mA
	Output Voltage range	DC100-160V			
	Line Regulation	±5%			
	Setup Rise Time	<1S			
	Flickering Index	1%(NO RISK)			
	IEC-PST	<1			
	CIE (SVM)	<0.4			
Input	Rated Input Voltage	AC220-240V			
	Input Voltage	AC198-264V			
	Frequency	50/60Hz			
	Rated Input Current	0.151A	0.303A	0.38A	0.56A
	Input Current	0.168A	0.337A	0.42A	0.61A
	Power Factor	> 0.92			
	THD	10%@230V			
	Efficiency	≥0.85%		≥0.93%	
	Inrush current	16A/138us	43.2A/59us	29.8A/65.8us	33A/121us
	No load wattage	<0.5W @230V			
	Stand-by power consumption	<0.5W @230V			
Protection	Short circuit protection	PASS			
	Over voltage protection	PASS			
	Over temperature protection	PASS			
Safety & EMC	Withstand voltage	I/P-FG:1.5KVac,<5mA 60S			
	Isolation Resistance	500VDC, ≥2M Ω			
	Surge	IEC/EN61000-4-5 (L-N:1KV, L/N-PE:2KV)			
	EMC Emission	EN55015, EN61000-3-2			
EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547				

## Wiring Diagram (Please select according to the actual product)

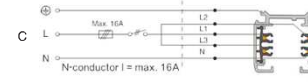
### 4-wires, 3-circuit



1-phase, 3-circuit,  
230V AC,  
16A, 3.7kVA

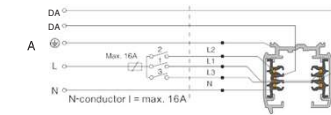


3-phase, 3-circuit,  
230/400V AC,  
16A, 3x3.7kVA

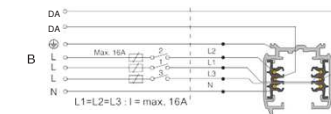


3-phase, 3-circuit,  
230/400V AC,  
16A, 11.1kVA

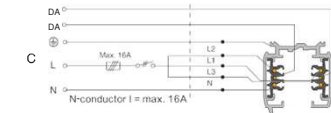
### 6-wires, 3-circuit



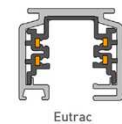
1-phase, 3-circuit,  
230V AC,  
16A, 3.7kVA



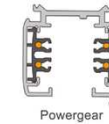
3-phase, 3-circuit,  
230/400V AC,  
16A, 3x3.7kVA



3-phase, 3-circuit,  
230/400V AC,  
16A, 11.1kVA



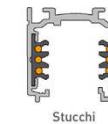
Eutrac



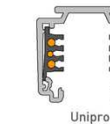
Powergear



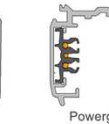
Global



Stucchi



Unipro

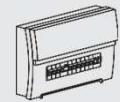


Powergear

## Installation Procedure

### WARNING

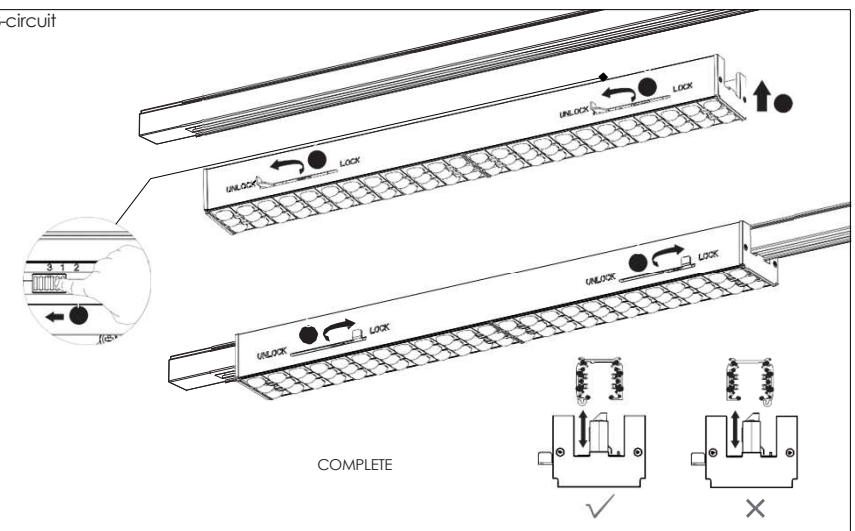
1. Switch off before installation.
2. Switch on only after complete installation and examination of the circuit.
3. Professional electrician for installation and maintenance only.



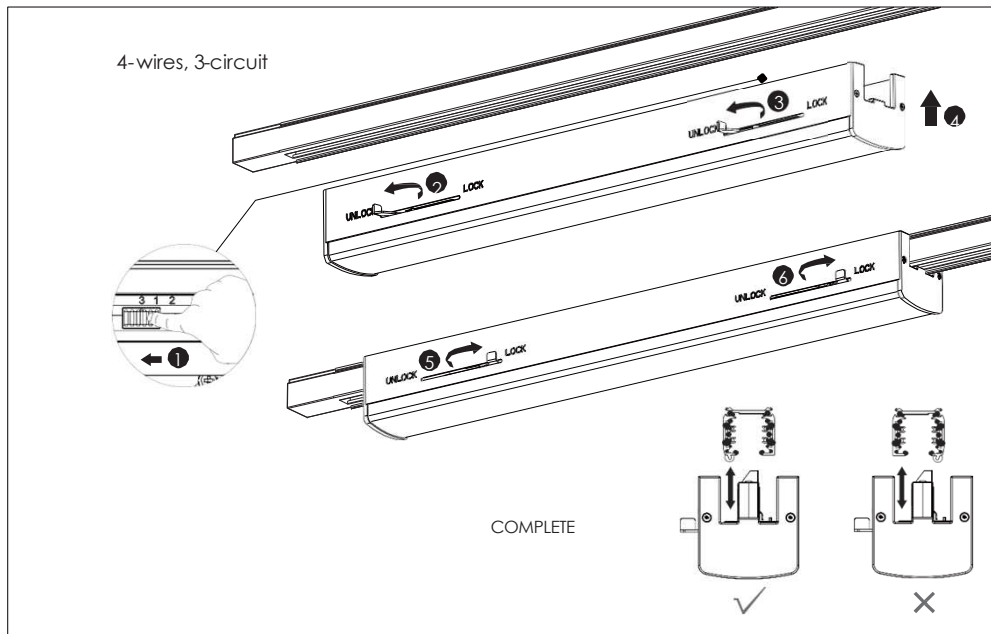
Turn Off  
Power Supply

## Installation

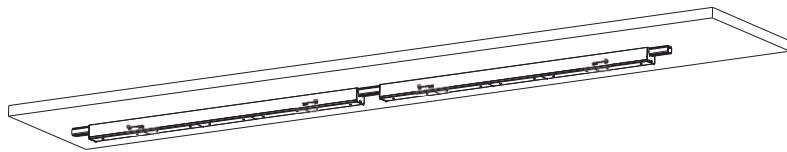
### 4-wires, 3-circuit



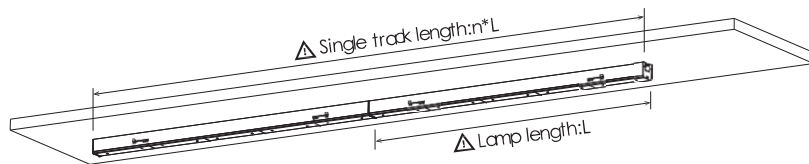
COMPLETE



linkable installation

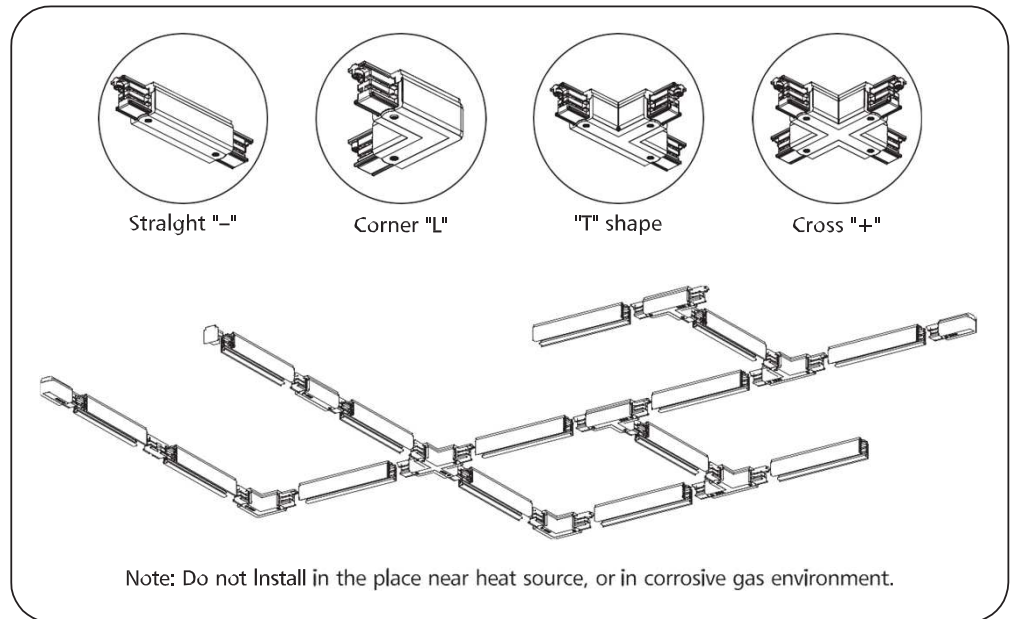
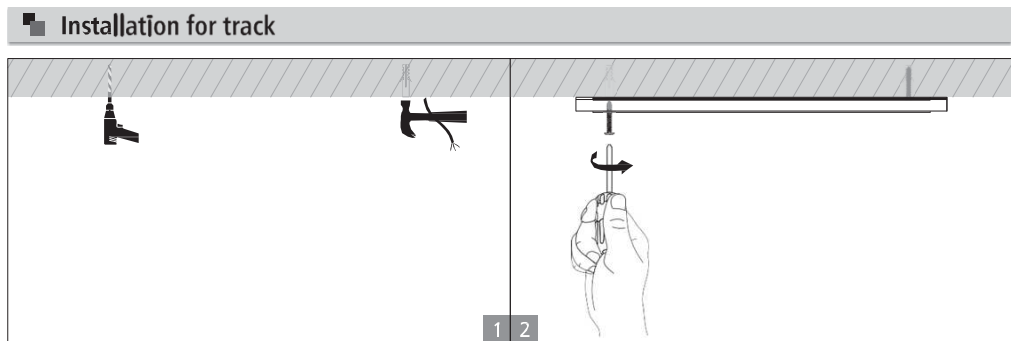


Continuous run installation



Statistical Table of the Number of Integrated Access Lights

Model	Product Specification				Circuit Breaker Specification							
	Inrush current (A)	Inrush time	Rated Voltage (ACV)	Input current (A)	B10	B13	B16	B20	C10	C13	C16	C20
TL151-600-30W-A4	16	138	220-240V	0.151	10	13	16	20	10	13	16	20
TL151-1200-60W-A4	43.2	59	220-240V	0.303	22	28	35	44	22	28	35	44
TL151-1500-75W-A4	29.8	65.8	220-240V	0.38	17	22	28	35	17	22	28	35
TL151-1500-100W-A4	33	121	220-240V	0.56	11	15	19	23	11	15	19	23





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