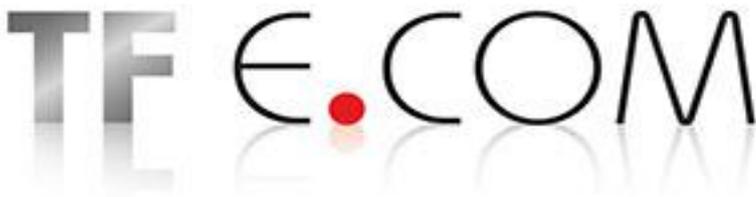


# *LED Linear Lighting System*



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## Suspension Installation

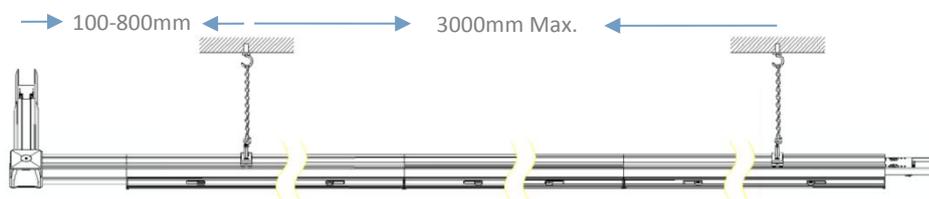
LED linear trunking lights are available in suspended, surface-mounted and recessed versions. Its very easy to mount the linear system by hand without tools, save both time and costs when updating our LED linear light. The rod/chain/cord suspension installation is tool free. Suspension height adjustment is also entirely tool-free. Even with new installations, only trunking rail and corresponding mounting hardware is needed.

Suspension mounting brackets have been designed to allow maximum ease and speed in installation. The position of the mounting bracket can still be changed once clicked onto the trunking rail, this ensures maximum flexibility. All brackets are simply clicked on the trunking rail. They are suitable for direct fixation or with rods, chains or cords for suspension fixation. Distance between the brackets is up to 3000mm, resulting in faster installation and lower costs.



Maximum distance between suspension points: 3000mm.

The first suspension point to end of trunking rail is 100-800mm.



If node connector in the first position, the maximum suspension points distance from node end to the first trunking rail is 100-800mm, and the second to the third trunking rail suspension distance is 3000mm.



### Ceiling Hook

For suspend rod, cord or chain to the ceiling

### Suspension Rod

Rod is one of optimal suspension installation ways.

Material: iron

Rod diameter: 6mm

Rod length: 3000mm

Withstand weight: >30KG



### Suspension Chain

With integral sleeve is for adjusting the chain height easily.

Materials: steel

Diameter: 2.4mm

Length: 3000mm

Withstand weight: >30KG

### Suspension Cord

Material: stainless steel

Cord height can be shortened on site

Diameter: 1.5mm

Length: 3000mm

Withstand weight: >30KG



### Surface Mounted

Fixing clamp for ceiling mounting.

Material: steel

Size: L55\*W32\*H17mm

Steel thickness: 0.8mm

### Wall mounted

Mounting clip with hole  $\phi$ 13.5mm



### Diverse and safe wire connection

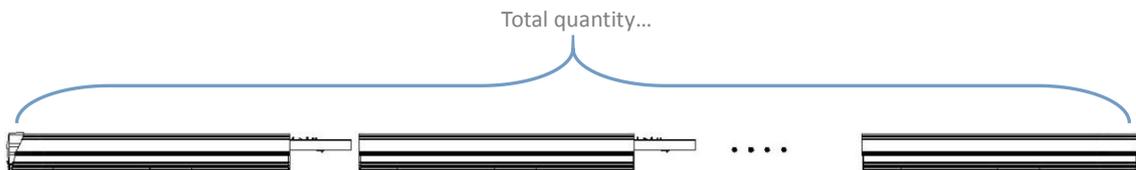
Trunking rails are equipped with pre-assembled through-wiring with a 2.5mm<sup>2</sup> cable.

5 or 7 or 11 integrated phase selection switch and contact blocks with click connection, according to needs for the integration of light management systems or for supplementary functions such as integrating emergency light, DALI / 1-10V / DIMswitch control.

There are 1416mm and 570mm trunking rail available for you choose, the 570mm is of supplement length in a continuous-row system when the continuous-row length is not enough.

The electric current of each single wire and connector is 16A, the max. quantity of luminaire by cascade connection such as bellows:

Trunking Rail Length	1416mm	1416mm	1416mm
Luminaire Power	80W	65W	40W
Electric Current	16A	16A	16A
Input Voltage	220/110V	220/110V	220/110V
Max. Quantity by Cascade Connection	44/22PCS	54/27PCS	88/44PCS
Total Length by Cascade Connection	60 / 30M	75 / 37M	123 /60M



Trunking Rail Length	570mm	570mm	570mm
Luminaire Power	32W	26W	16W
Electric Current	16A	16A	16A
Input Voltage	220/110V	220/110V	220/110V
Max. Quantity by Cascade Connection	110/55PCS	135/67PCS	220/110PCS
Total Length by Cascade Connection	60 / 30M	75 / 37M	124 / 60M

Various of feed-in solution for selection

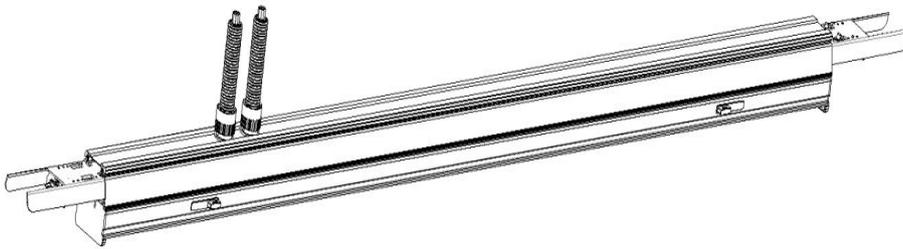
1. Power feed-in box



2. X, T, L feed-in node connector

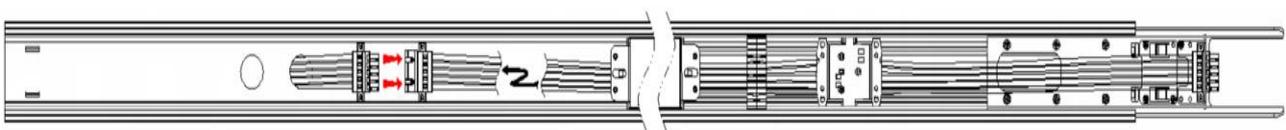


### 3. Central feed-in trunking rail



4. Normal trunking rail can be modified into feed-in trunking rail by technician.

- a. Release the screw, roll over the male connector
- b. Using a female connector joint to male connector
- c. Incoming cable with slot connect to female connector



Note:

There are single core wire, multi core wire, wavy pipe and wire connectors available for selecting.

Please contact us if need it.



Single-stranded cable with pulling-resistant interface



Flat cable + wavy pipe without pulling-resistant interface



Attention to the wire connection, mode and correspondence of wire definition.



Terminal Block and wire connectors

When face to the trunking rail, the feed-out terminal is in right side, the wire definition (from top to down) is as bellow:

FG: Ground

EL1: Emergency 1 supply live

EN1: Emergency 1 supply neutral

EL2: Emergency 2 supply live

EN2: Emergency 2 supply neutral

DIM+: Positive of 1-10V input

DIM-: Negative of 1-10V input

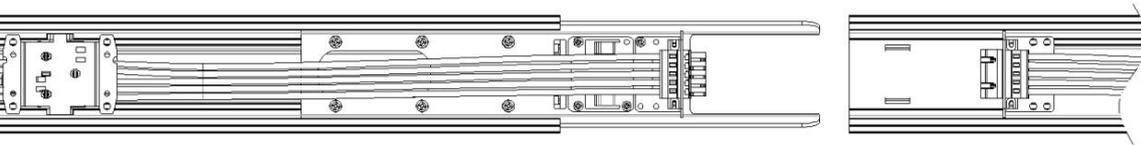
DA/L: Positive of DALI input, or live when works as DIMswitch

DA/N: Negative of DALI input, or neutral when works as DIMswitch

CHR: Charge input for internal battery, main supply detection for EMG1 or EMG2.

**5-core through wiring 5x2.5mm<sup>2</sup>**

	Wire Qty	Function Description	Wire Description				
			1	2	3	4	5
Mode 1	5-Core	Standard function	L1	N	L2	FG	L3



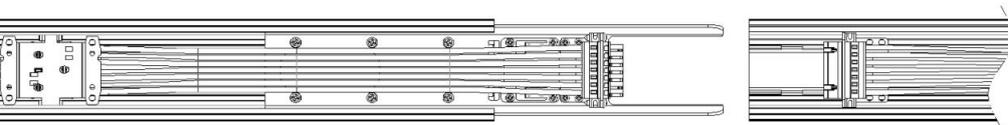
**The 5-core wire luminaire can be used onto 7-core wire trunking rail**

For three-phase wiring with phase selection.

Separately switchable circuits for easy light control in triple circuit.

7-core through wiring 7x2.5mm<sup>2</sup>

	Wire Qty	Function Description	Wire Description						
			1	2	3	4	5	6	7
Mode 2	7-Core	Standard function	L1	N	L2	FG	L3	---	---
Mode 3	7-Core	Standard function and DALI	L1	N	L2	FG	L3	DA/N	DA/L
Mode 4	7-Core	Standard function and 1-10V	L1	N	L2	FG	L3	DIM-	DIM+
Mode 5	7-Core	Standard function and Battery	L1	N	L2	FG	L3	---	CHR



For additional DALI/1-10V/emergency control.

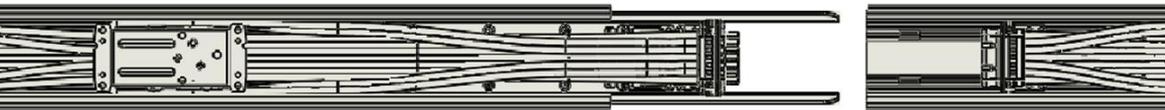
Efficient, flexible, customized lighting for industrial and commercial buildings.

Purposefully staged lighting scenes in shops and retail areas.

Other Intelligent lighting management system is customizable.

11-core through wiring 11x2.5mm<sup>2</sup>

	Wire Qty	Function Description	Description of the wire										
			1	2	3	4	5	6	7	8	9	10	11
Mode 6	11-Core	Standard function	---	---	---	---	L3	L2	L1	FG	N	---	---
Mode 7	11-Core	Standard function and Dali	---	---	DA/N	DA/L	L3	L2	L1	FG	N	---	---
Mode 8	11-Core	Standard function and 1-10V	---	---	DIM-	DIM+	L3	L2	L1	FG	N	---	---
Mode 9	11-Core	Standard function, DALI, Battery and EMG1	EN1	EL1	DA/N	DA/L	L3	L2	L1	FG	N	---	CHR
Mode 10	11-Core	Standard function, 1-10V, Battery and EMG1	EN1	EL1	DIM-	DIM+	L3	L2	L1	FG	N	---	CHR
Mode 11	11-Core	Standard function, Battery, EMG1 and EMG2	EN1	EL1	EN2	EL2	L3	L2	L1	FG	N	---	CHR
Mode 12	11-Core	Standard function, DALI and EMG1	EN1	EL1	DA/N	DA/L	L3	L2	L1	FG	N	---	CHR
Mode 13	11-Core	Standard function, 1-10V and EMG1	EN1	EL1	DIM-	DIM+	L3	L2	L1	FG	N	---	CHR
Mode 14	11-Core	Standard function, EMG1 and EMG2	EN1	EL1	EN2	EL2	L3	L2	L1	FG	N	---	CHR



For additional Dali/1-10V/Battery emergency control and two independent emergency lighting circuits

Two independent emergency lighting circuits allow optimal integration of emergency lighting into general lighting.

Other Intelligent lighting management system is customizable.

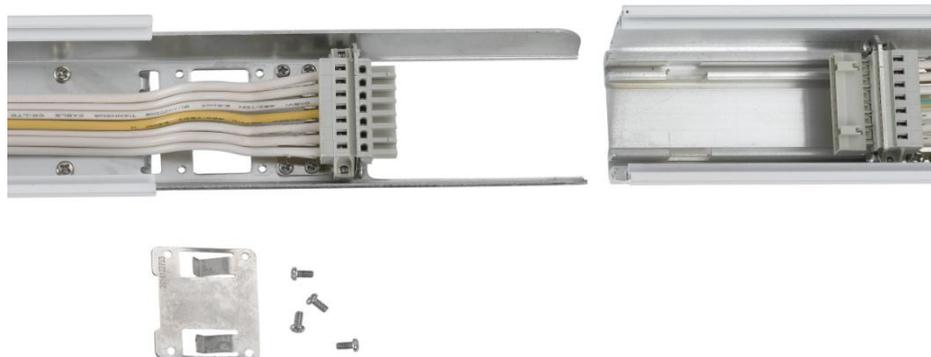
### How to lock the luminaire and trunking rail

The two lateral lever locks in the luminaire are for locking the luminaire and trunking rail.



### How to dispatch the connected trunking rails

There is a small metal plate at end of trunking rail, please screw off the metal plate to dispatch the connected trunking rails.



## How to connect trunking rails

Visual inspect and make sure the connector been well connected after 'CLICK'



The gap between trunking rails should be less than 1mm.



## Remove the rail connector of the last trunking rail in one continuous-row system.

Please screw off the rail connector in the last trunking rail

Turn the wires into 'U' shape.

Attention to the 'U' turned position, keep away from the lateral lever lock in the luminaire.



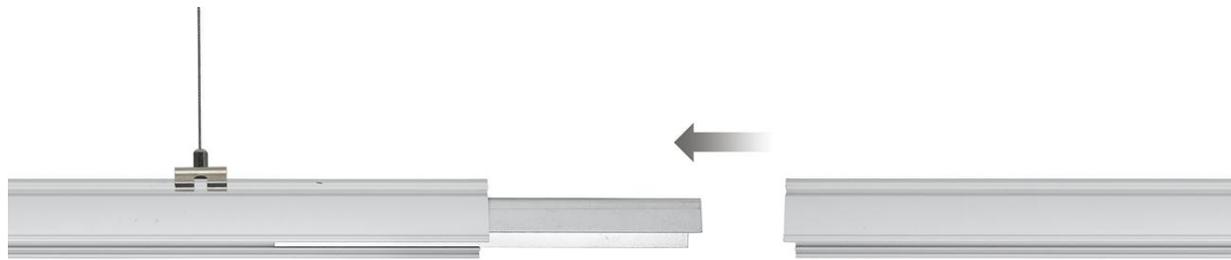
### Easy Lamp Mounting

The LED linear trunking system are simple mounting. All system components, trunking rail and luminaire inserts are perfectly matched according to 1416mm/570mm system dimensions. Triple, double and single-length rails can be combined to comply with the space involved. Modules can be positioned in the rails with randomly defined distances according to system dimensions for both trunking rail and individual luminaire installations, meaning that mounting and installation is highly rapid. This is good for the budget in terms of time, costs, logistics, replacements, and installation. Pre-assembled rail connectors enable the rapid connection of trunking rails, and X, L and T connector elements give more design possibilities when deciding on trunking configurations.





Suspend the first trunking rail  
Click brackets onto trunking rails



Click! Push to connect the trunking rails



Suspend next trunking rail



Phase selection, select phase 1/2/3



Electrical connection of luminaire and trunking rail.



Move the lateral level locks, to secure the mechanical connection of luminaire and trunking rail.



Suspension height 1-2cm adjustable



Cover the end-cap to the last one luminaire