

meeuse
LED
verlichting.

Efficiënt LED Linair Lighting Systems



Voorwoord

Welkom bij Meeuse LED, uw betrouwbare partner voor hoogwaardige en energiezuinige verlichtingsoplossingen. Of het nu gaat om een magazijn, kantoor of fabriek, verlichting speelt een essentiële rol in het dagelijks functioneren van uw bedrijf. Maar wist u dat juist op deze locaties vaak aanzienlijk bespaard kan worden op energiekosten?

Bij Meeuse LED begrijpen we dat verlichting niet alleen functioneel moet zijn, maar ook duurzaam en kostenbesparend. Daarom bieden wij voor iedere ruimte een passende oplossing die zowel uw energiekosten verlaagt als de werkomgeving verbetert.

Onze moderne LED-verlichting is de ideale vervanger van traditionele lichtinstallaties, wat niet alleen directe financiële voordelen oplevert, maar ook niet-kostgerelateerde voordelen, zoals verbeterde productiviteit en een milieuvriendelijke werkomgeving.

In deze brochure vindt u een overzicht van de toepassingen die wij voor uw specifieke behoeften beschikbaar hebben, gericht op lijnverlichting.

Laat u inspireren door de mogelijkheden en ontdek hoe wij u kunnen helpen bij het creëren van een efficiënte en duurzame verlichtingsoplossing.

Wij staan klaar om met u samen te werken aan een toekomst waarin u bespaart op kosten en bijdraagt aan een groenere wereld.

Met vriendelijke groet,

Het team van Meeuse LED



LED Linear Lighting System



20W / 25W / 30W / 35W / 40W / 45W / 50W / 55W / 60W / 65W / 70W / 100W / 150W optional

ON/OFF / DALI / DIM switch

DIP Switch Driver

Sharp / narrow / wide / flood / flat / asymmetric / double asymmetric

5 / 8 / 12 wires trunking rail

Daylight sensor, motion sensor

L , T , X node connector

Up to 195LM per watt

DC emergency / central safety emergency supply / built-in battery supply

Cord / chain / rod / surface mounted / mounting clip

2700K / 3000K / 3500K / 4000K / 5000K / 5700K / 6500K

600mm / 1200mm / 1500mm / 2400mm / 3000mm / 4500mm

LED Linear Lighting System



Application

Commercial·Industrial·Warehouse·Other indoor lighting



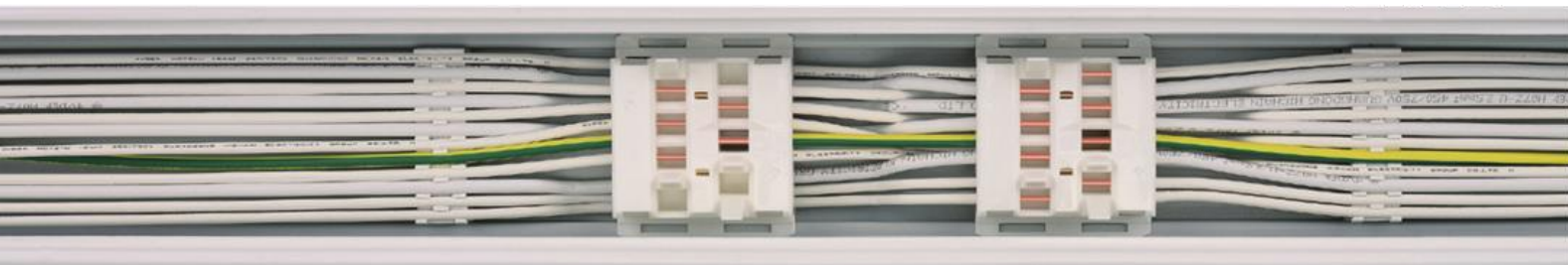
TRUNKING RAIL



- 3-phase pre-selection via moving luminaire male connector pin to right or left to install in the rail
- Trunking rail as standard with 5, 8 or 12-core through-wiring with 2.5mm² cable for power supply and 1.5mm² cable for dimming control.
- The maximum current is 16A, allowing 70pcs of 1500mm 50W in one serial row with 220VAC power supply
- Separate power supplies, dimming or emergency supply can be integrated
- Electrical feed possible in sideward or end area of a trunking rail arrangement via special trunking rail element
- Trunking rail modules with pre-assembled connectors
- Wide distances between suspension points to 3m with self-supporting connector elements
- Simple mounting of trunking rail elements with pre-assembled connectors with integral plug-in system (electrical and mechanical connection)
- Flexible electrical feed-in and feed-out points

Wiring Information

5/8/12 wiring are available



Mode	Function Description					Description Of The Wire													
	3 phase	DALI	1-10V	Batt	EMG1	EMG2	1	2	3	4	5	6	7	8	9	10	11	12	
5-core trunking rail :																			
1	✓							L1		N		L2		PE		L3			
8-core trunking rail :																			
2	✓		✓	✓			CHR	L1		N		L2		PE		L3	DIM+	DIM-	
3	✓	✓		✓			CHR	L1		N		L2		PE		L3	DA/L	DA/N	
4	✓			✓	✓		CHR	L1		N		L2		PE		L3	EL1	EN1	
12-core trunking rail :																			
5	✓		✓	✓	✓	✓	CHR	L1	EL1	N	EN1	L2	EN2	PE	EL2	L3	DIM+	DIM-	
6	✓	✓		✓	✓	✓	CHR	L1	EL1	N	EN1	L2	EN2	PE	EL2	L3	DA/L	DA/N	
7	x2		✓	✓			CHR	L1	L4	N1	N2	L2	L5	PE	L6	L3	DIM+	DIM-	
8	x2	✓		✓			CHR	L1	L4	N1	N2	L2	L5	PE	L6	L3	DA/L	DA/N	

A continuous-row LED lighting system could be created only by a trunking unit and a LED luminaire. It appears as a consistent continuous-row system, without any visual interruption or different reflectors. The luminaire and trunking rail are perfectly matched to each other.



Housing Colors



DIP Switch Driver

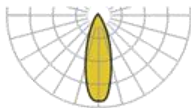
All drivers are DIP Switch Driver. Power can be selectable by setting the buttons in different position, which is more convenient for customers to make inventory.



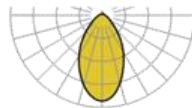
OPTICS



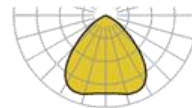
SP-30°
extremely narrow



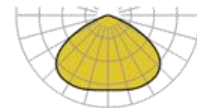
NR-60°
narrow



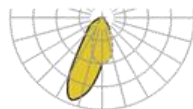
WD-90°
wide



FD-120°
Extremely wide



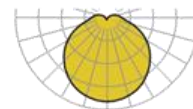
LS / RS
asymmetrical



DS
Double asymmetric



FF
Diffuser



Lenses Module



Central.Line.Optic



Individual.Lens.Optic



Diffuser

FUNCTION MODULES



Spotlight Module



Sensor Module



Exit Sign Module



Wireless Sensor

ACCESSORIES

Power Feed



Feed In Box



Feed In Connector



Terminal Box

Mounting Kit



Suspension Cord



Suspension Rod



Suspension Chain



Surface Mounted



Mounting Clip

Node Connector



L Node Connector



T Node Connector



X Node Connector

Closure



End Cap



Blank Cover

Order Number List - Trunking Rail

Category	Length	Option	Wire Quantity	Color
	X	X	X	X
CFT	06	N	05	WH
	09	F	08	BK
	12	T	12	
	15			
	24			
	30			
	36			
	45			

Code Definition

CFT = CoreShine linear trunking rail

Length:

06 = 600mm
09 = 900mm
12 = 1200mm
15 = 1500mm
24 = 2400mm
30 = 3000mm
36 = 3600mm
45 = 4500mm

Option:

N = normal rail
F = feed-in rail
T = terminal rail

Wire quantity:

05 = 5 wires
08 = 8 wires
12 = 12 wires

Color:

WH = white
BK = black



e.g.: CFT-15F-05WH

1.5m linear trunking rail, feed-in, 5 wires, white color

Order Number List - Luminaire

Category	Length	Power	CCT	Beam		Color	Function		
				Angle	Wire		X	X	X
CFL-	12	30	27	SP	05	WH	E1	B1	DA
		40	30	NR	08	BK	E2	B2	10
		60	35	WD	12				
	15	35	40	FD					
		50	50	DS					
		70	57	RS					
		100	65	LS					
	24	150		FF					

e.g.: CFL-1550-40NR-08WH-DA

1.5m linear luminaire, 50W, 4000K, narrow angle,
8 wires, white color, DALI dimming.

Code Definition

CFL = CoreShine linear luminaire

Length:

12 = 1200mm

15 = 1500mm

24 = 2400mm

Power:

30, 40, 60 = 30W, 40W, 60W

35, 50, 70 = 35W, 50W, 70W

100 = 100W

150 = 150W

CCT:

27 = 2700K

30 = 3000K

35 = 3500K

40 = 4000K

50 = 5000K

57 = 5700K

65 = 6500K

Beam angle

SP = sharp

NR = narrow

WD = wide

FD = flood

DS = double asymmetric

RS / LS = right / left asymmetric

FF = flat frosted

Wire quantity:

05 = 5 wires,

08 = 8 wires,

12 = 12 wires

Color of the housing:

WH = white shell

BK = black shell

Function:

E1 = 6W emergency power supply

E2 = 12W emergency power supply

B1 = 1800mAh emergency battery pack

B2 = 3600mAh emergency battery pack

DA = DALI dimming

10 = 1-10V dimming



Order Number List - Node Connector - Feed-in Box

Category	Model	Wire Quantity	Color
CFN -	BF	X	X
		05	WH
		08	BK
		12	

Code Definition

CFN=Coreshine linear node connector

Model:

BF= Feed-in box

Wire quantity:

05= 5 wires

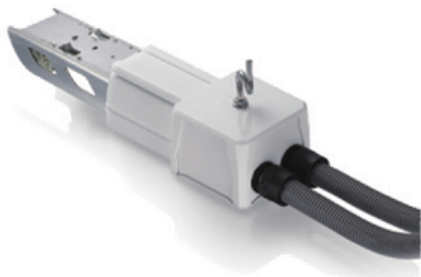
08= 8 wires

12= 12 wires

Color:

WH= white

BK= black



e.g.: CFN-BF-05WH
Feed-in box, 5 wires, white color

Order Number List - L, T, X Node Connector

Category	Model	Option	Wire Quantity	Color	
CFN -	L	X	X	X	
		01	None	WH	
		10	05	BK	
		100	08		
		X	010	12	
			001		
			1000		

Option:

01=feed-in by the left side; feed-out by right side

10=feed-in by the right side; feed-out by left side

010=one side for feed-in; two sides for feed-out

1000=one side for feed-in; three sides for feed-out



L Node Connector



T Node Connector



X Node Connector

e.g.: CFN-LO1-05WH
L-node connector, feed in by the left side and feed out by right side, 5 wires, white color

Luminaire Characteristics | Standard Version / 35W/50W/70W

Product Description

- Tool free installation
- Continuous line
- Plug and play

Application

- Commercial
- Industrial
- Warehouse



Model No.	CFLS-1535	CFLS-1550	CFLS-1570
Outer dimensions	1500*76*70mm	1500*76*70mm	1500*76*70mm
Input power	35W	50W	70W
Dip switch to	20/25/30/35W	35/40/45/50W	55/60/65/70W
Input voltage	220 - 240V	220 - 240V	220 - 240V
Input current	0.2A max	0.3A max	0.4A max
Mains frequency	0/50/60HZ	0/50/60HZ	0/50/60HZ
PF (at 230 V, 50 Hz, full load)	0.95	0.95	0.95
Lumen	6825lm	9750lm	13650lm
Efficiency	195lm/W	195lm/W	195lm/W
CCT	2700-6500K	2700-6500K	2700-6500K
CRI	80Ra/90Ra	80Ra/90Ra	80Ra/90Ra
R9	>0	>0	>0
SDCM	<3	<3	<3
Beam Angle	30°, 60°, 90°, 120° LS/RS, DS, FF	30°, 60°, 90°, 120° LS/RS, DS, FF	30°, 60°, 90°, 120° LS/RS, DS, FF
Dimming	NO	NO	NO
Dimming range	/	/	/
Flicker percent	≤5%	≤5%	≤5%
Flicker metric Pst LM	≤1.0	≤1.0	≤1.0
Stroboscopic effect metric SVM	≤0.4	≤0.4	≤0.4
Type of protection	IP20	IP20	IP20
Operating humidity	10% - 85%	10% - 85%	10% - 85%
Storage humidity	10% - 85%	10% - 85%	10% - 85%
Ambient temperature Ta (at life-time 50,000 h)	-25 - 40°C	-25 - 40°C	-25 - 40°C
Warranty	5 years	5 years	5 years
Storage temperature Ts	-40 - 85°C	-40 - 85°C	-40 - 85°C

Luminaire Characteristics | DALI DT6 Dimming version / 35W/50W/70W

Product Description

- Tool free installation
- Continuous line
- Plug and play

Application

- Commercial
- Industrial
- Warehouse



Model No.	CFLS-1535-DA	CFLS-1550-DA	CFLS-1570-DA
Outer dimensions	1500*76*70mm	1500*76*70mm	1500*76*70mm
Input power	35W	50W	70W
Dip switch to	20/25/30/35W	35/40/45/50W	55/60/65/70W
Input voltage	220 - 240V	220 - 240V	220 - 240V
Input current	0.2A max	0.3A max	0.4A max
Mains frequency	0/50/60HZ	0/50/60HZ	0/50/60HZ
PF [at 230 V, 50 Hz, full load]	0.95	0.95	0.95
Lumen	6825lm	9750lm	13650lm
Efficiency	195lm/W	195lm/W	195lm/W
CCT	2700-6500K	2700-6500K	2700-6500K
CRI	80Ra/90Ra	80Ra/90Ra	80Ra/90Ra
R9	>0	>0	>0
SDCM	<3	<3	<3
Beam Angle	30°, 60°, 90°, 120° LS/RS, DS, FF	30°, 60°, 90°, 120° LS/RS, DS, FF	30°, 60°, 90°, 120° LS/RS, DS, FF
Dimming	DALI DT6/switch	DALI DT6/switch	DALI DT6/switch
Dimming range	1% - 100%	1% - 100%	1% - 100%
Flicker percent	≤5%	≤5%	≤5%
Flicker metric Pst LM	≤1.0	≤1.0	≤1.0
Stroboscopic effect metric SVM	≤0.4	≤0.4	≤0.4
Type of protection	IP20	IP20	IP20
Operating humidity	10% - 85%	10% - 85%	10% - 85%
Storage humidity	10% - 85%	10% - 85%	10% - 85%
Ambient temperature Ta (at life-time 70,000 h)	-25 - 40°C	-25 - 40°C	-25 - 40°C
Warranty	5 years	5 years	5 years
Storage temperature Ts	-40 - 85°C	-40 - 85°C	-40 - 85°C

Electrical Characteristics | Output Selectable Driver | 35W/50W/70W

Product description

Constant current LED driver
Lifespan: 70,000h
5 years warranty

Properties

Over voltage protection with automatic restart
Overload protection
Short-circuit protection with automatic restart
Surge voltage: 3KV



Model No.	CSD2S-35A	CSD2S-50A	CSD2S-70A
Input voltage	220 - 240V	220 - 240V	220 - 240V
Input current	0.23A max	0.33A max	0.47A max
Mains frequency	0/50/60HZ	0/50/60HZ	0/50/60HZ
PF (at 230 V, 50 Hz, full load)	0.95	0.95	0.95
THD (at 230 V, 50 Hz, full load)	15%	15%	15%
Inrush current	25A@100us	32A@125us	30A@180us
Turn on time (output)	≤0.5s	≤0.5s	≤0.5s
Output voltage	60 - 100V	85 - 160V	120 - 200V
Output current	0.2/0.25/0.3/0.35A	0.245/0.28/0.315/0.35A	0.275/0.3/0.325/0.35A
Max output power	35W	50W	70W
Efficiency (at 230V,50Hz,full load)	91%	92%	93%
Dimming	NO	NO	NO
Dimming range	/	/	/
Output LF current ripple	≤5%	≤5%	≤5%
Surge (between L - N)	3KV	3KV	3KV
Surge (between L/N - PE)	3KV	3KV	3KV
Type of protection	IP20	IP20	IP20
Operating humidity	10% - 85%	10% - 85%	10% - 85%
Storage humidity	10% - 85%	10% - 85%	10% - 85%
Ambient temperature Ta (at life-time 70,000 h)	-25 - 50°C	-25 - 55°C	-25 - 60°C
Max. Casing temperature Tc	70°C	75°C	75°C
Storage temperature Ts	-40 - 85°C	-40 - 85°C	-40 - 85°C
Outer dimensions	180*30*22mm	180*30*22mm	230*30*22mm

Electrical Characteristics | DALI DT6 Dimming Driver/ 35W/50W/70W

Product description

Constant current LED driver
Lifespan: 70,000h
5 years warranty

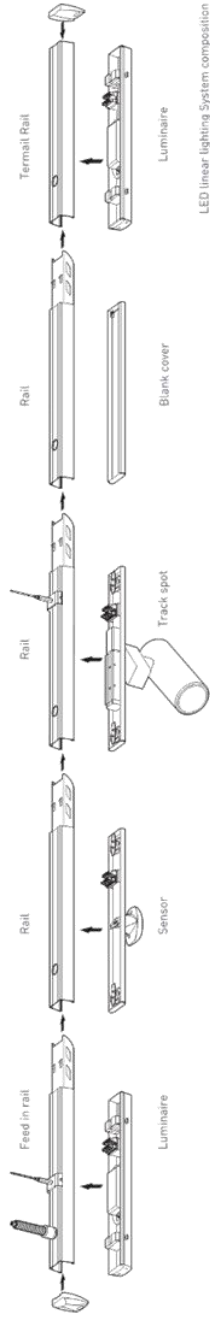
Properties

Over voltage protection with automatic restart
Overload protection
Short-circuit protection with automatic restart
Surge voltage: 3KV



Model No.	CSD2S-35-DA	CSD2S-50-DA	CSD2S-70-DA
Input voltage	220 - 240V	220 - 240V	220 - 240V
Input current	0.23A max	0.33A max	0.47A max
Mains frequency	0/50/60HZ	0/50/60HZ	0/50/60HZ
PF (at 230 V, 50 Hz, full load)	0.95	0.95	0.95
THD (at 230 V, 50 Hz, full load)	15%	15%	15%
Inrush current	25A@100us	32A@125us	30A@180us
Turn on time (output)	≤0.5s	≤0.5s	≤0.5s
Standby power P _{sb}	≤0.5W	≤0.5W	≤0.5W
Output voltage	60 - 100V	85 - 160V	120 - 200V
Output current	0.2/0.25/0.3/0.35A	0.245/0.28/0.315/0.35A	0.275/0.3/0.325/0.35A
Max output power	35W	50W	70W
Efficiency (at 230V,50Hz,full load)	91%	92%	93%
Dimming	DALI DT6/switch	DALI DT6/switch	DALI DT6/switch
Dimming range	1% - 100%	1% - 100%	1% - 100%
Output LF current ripple	≤5%	≤5%	≤5%
Surge (between L - N)	3KV	3KV	3KV
Surge (between L/N - PE)	3KV	3KV	3KV
Type of protection	IP20	IP20	IP20
Operating humidity	10% - 85%	10% - 85%	10% - 85%
Storage humidity	10% - 85%	10% - 85%	10% - 85%
Ambient temperature T _a (at life-time 50,000 h)	-25 - 50°C	-25 - 55°C	-25 - 60°C
Max. Casing temperature T _c	70°C	75°C	75°C
Storage temperature T _s	-40 - 85°C	-40 - 85°C	-40 - 85°C
Outer dimensions	230*30*22mm	230*30*22mm	280*30*22mm

LED Linear Lighting System | S Line



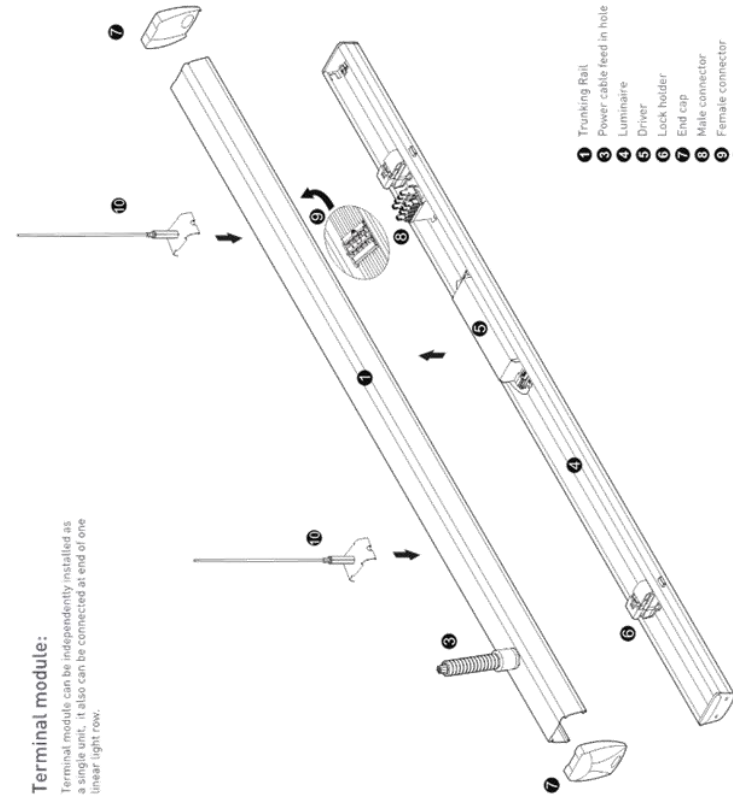
LED linear lighting System composition

Safety notes:
Installation should be performed only by qualified electrician.

- Make sure no voltage while installation.
- Connect cable wires according to wire labeling.
- Max current should not exceed 16A in one power feed in circuit.

Terminal module:

Terminal module can be independently installed as a single unit. It also can be connected at end of one linear light row.



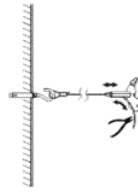
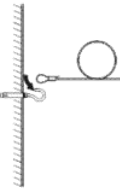
STEP 1

Mounting Suspension

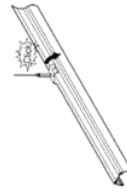
Drill a hole on ceiling



Fix mounting hook into ceiling



Adjust length of suspension cord:
a. Press down hexagon bolt;
b. Pull in/out cord to adjust length



Click in mounting clip into trunking rail

STEP 2

Connecting Power Supply



Cut the Rubber cap to pass the power cable



Screw in the conduit gland



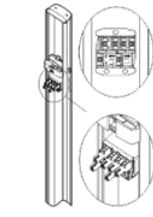
Put in conduit with cable inside and pull up conduit gland to lock



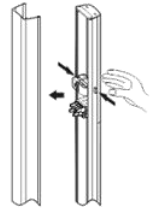
Connect wires according labeling on wires to feed in connector then connect to connector in trunking rail

STEP 3

Mounting Luminaire



Slide knob to select phase L1/L2/L3



Make sure male & female connectors in right position then fix the luminaire to trunking rail

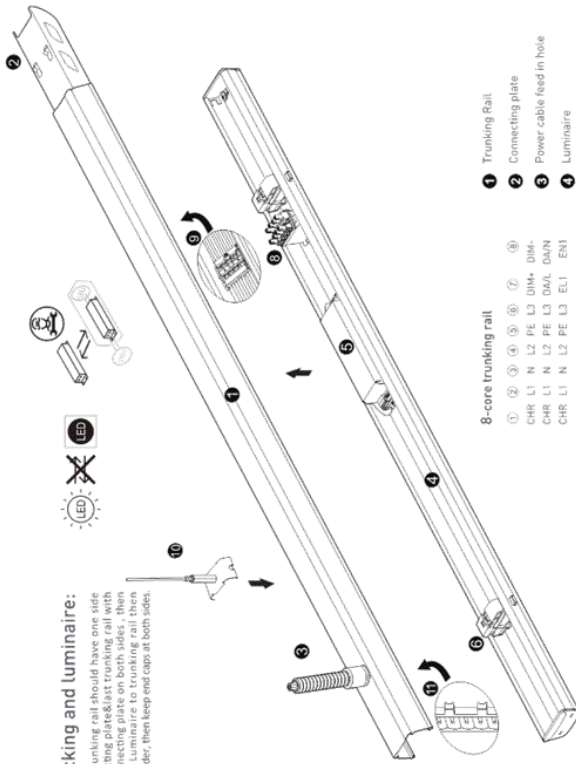


Push the sliding lock to lock the luminaire to trunking rail

LED Linear Lighting System | S Line

Tracking and luminaire:

First tracking rail should have one side connecting plate & just tracking rail with no connecting plate on both sides, then fix the Luminaire to tracking rail then lock holder, then keep end caps at both sides.



- 1 Trunking Rail
- 2 Connecting plate
- 3 Power cable feed in hole
- 4 Luminaire
- 5 Driver
- 6 Lock holder
- 7 Male connector
- 8 Female connector
- 9 Installation cord

- 8-core trunking rail**
- | | | | | | | | |
|-----|----|---|----|----|----|------|------|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
| CHR | L1 | N | L2 | PE | L3 | DM+ | DM- |
| CHR | L1 | N | L2 | PE | L3 | DA/L | DA/N |
| CHR | L1 | N | L2 | PE | L3 | EL1 | EN1 |

- 12-core trunking rail**
- | | | | | | | | | | | | |
|-----|----|----|----|----|----|------|------|-----|-----|-----|-----|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | ⑨ | ⑩ | ⑪ | ⑫ |
| CHR | L1 | N | L2 | PE | L3 | DM+ | DM- | EL1 | EN1 | EN2 | EL2 |
| CHR | L1 | N | L2 | PE | L3 | DA/L | DA/N | EL1 | EN1 | EN2 | EL2 |
| CHR | L1 | NI | L2 | PE | L3 | DM+ | DM- | L4 | N2 | L5 | L6 |
| CHR | L1 | NI | L2 | PE | L3 | DA/L | DA/N | L4 | N2 | L5 | L6 |

- ① Definition of 5-core 8-core and 12-core trunking rail**

- 5-core trunking rail** ① ② ③ ④ ⑤
- | | | | | |
|----|---|----|----|----|
| L1 | N | L2 | PE | L3 |
|----|---|----|----|----|

Step 1 Mounting Suspension



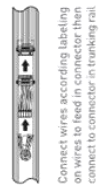
Adjust length of suspension cord.
a. press down Hexagon bolt.
b. Pull in/out cord to adjust length

Click in mounting clip into trunking rail

Step 2 Connecting Power Supply



Put in conduit with cable inside and pull up conduit gland to lock



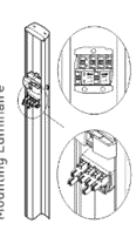
Connect wires according labeling on luminaire rail. Wires with the same color connect to connector in trunking rail.

Step 3 Connecting Trunking Rail

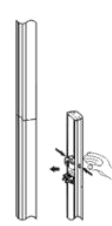
Both trunking rails should keep in perfect position then push to click



Step 4 Mounting Luminaire



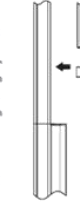
Slide knob to select phase L1/L2/L3



Make sure male & female connectors in right position then fix the luminaire to trunking rail



Step 5 LED linear lighting system



Including luminaires



Including luminaires and sensor

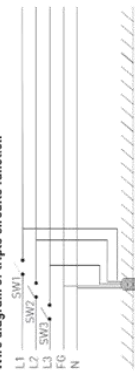


Including luminaires and spotlight



Including luminaires and black cover

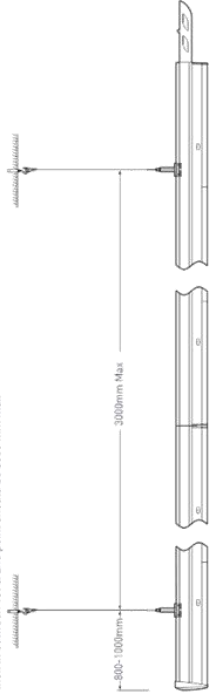
Wire diagram of triple circuits function



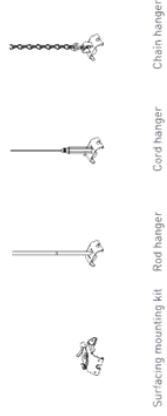
This Triple Circuits function offers to control lighting ON/OFF by three switches SW1, SW2, SW3 which are connected by five lines L1, L2, L3

Pendant and mounting installation

Starting installation distances point should be 800 mm to 1000 mm, then in between 1st & 2nd point should be 3000 mm max




Four options for installation



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