



## **LED Linear Lighting System**



35W / 40W / 45W / 50W / 55W / 60W / 65W / 70W optional

DALI / DIM switch/ 1-10V dimmable optional

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

5/8/12 wires trunking rail

Daylight sensor, motion sensor

 $\mathsf{L}$  ,  $\mathsf{T}$  ,  $\mathsf{X}$  node connector

160LM / 180LM 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
- $\cdot$  Trunking rail as standard with 5, 8 or 12-core through-wiring with 2.5mm<sup>2</sup> cable for power supply and 1.5mm<sup>2</sup> cable for dimming control.
- $\cdot$  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
- $\cdot$  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
- $\cdot$  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	e 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 tr	unking	rail :															
1	V							L1		Ν		L2		PE		L3		
	8-core tr	unking	rail :															
2	$\sqrt{}$		$\sqrt{}$	$\sqrt{}$			CHR	L1		Ν		L2		PE		L3	DIM+	DIM-
3	V	$\sqrt{}$		$\sqrt{}$			CHR	L1		Ν		L2		PE		L3	DA/L	DA/N
4	V			V	V		CHR	L1		Ν		L2		PE		L3	EL1	EN1
	12-core t	trunkin	g rail :															
5	$\sqrt{}$		$\sqrt{}$	V	V	V	CHR	L1	EL1	Ν	EN1	L2	EN2	PE	EL2	L3	DIM+	DIM-
6	$\sqrt{}$	$\sqrt{}$		V	V	V	CHR	L1	EL1	Ν	EN1	L2	EN2	PE	EL2	L3	DA/L	DA/N
7	x2		$\sqrt{}$	V			CHR	L1	L4	N1	N2	L2	L5	PE	L6	L3	DIM+	DIM-
8	x2	V		V			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.



#### **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.

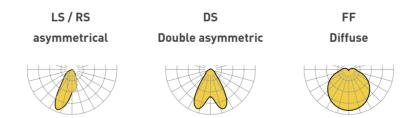




## **OPTICS**



FD-120° WD-90° NR-60° SP-30° Extremely wide wide narrow extremely narrow



#### Lenses Module





### **EMERGENCY LIGHTING**



#### External emergency with Constant current(On/off) LED driver

Luminaires with Constant current(on/off) led driver connect to the central backup battery or UPS through EL, EN. When no power is detected, the luminaires are off; when power is detected, the luminaires are 100% brightness.

EL/EN	Lamp Brightness
OFF	0%
ON	100%

L/N or EL/EN	Lamp Brightness
OFF	0%
AC 220V 0N	100%
DC 220V ON	15%

#### External emergency with DALI driver

Luminaires with DALI driver connect to the mains electricity, central backup battery or UPS. When no power is detected, the luminaires are off; when AC power is detected, the luminaires are on 100%; when DC power is detected, the luminaires are on 15%.

### Internal emergency with built-in battery pack

Different combination of emergency driver and battery pack are available. When CHR detects that there is power, luminaires are on 100%; when no power detected, luminaires will work according to the selected emergency driver. Different emergency drivers and battery packs can be freely combined as below.

			Emergency	Power when in	
L/N	L-CHR/N-CHR	Battery	driver power	emergency	Duration time
OFF	ON	/	/	/	0%
OFF	OFF	1800mAh	6W	6W	3 hours
OFF	OFF	3600mAh	12W	12W	3 hours
OFF	OFF	3600mAh	6W	6W	6 hours



### **FUNCTION MODULES**









Spotlight Module

Sensor Module

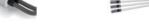
Exit Sign Module

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
KFT	06	Ν	05	WH
	09	F	08	BK
	12	Ţ	12	SV
	15			
	24			
	30			
	36			
	45			



### Length:

06 = 600mm

09 = 900 mm

12= 1200mm

15 = 1500mm

24 = 2400mm 30 = 3000mm

36= 3600mm

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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

SV = silver

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

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



### **Order Number List - Luminaire**

				Beam					
Category	Length	Power	CCT	Angle	Wire	Color	F	unctio	on
KFL-	15 24 30	30 40 60 35 50 70	27 30 35 40 50 57 65	SP- NR WD FD DS RS LS FF	05 08 12	WH- BK SV	E1 E2	1.5r	DA 10  : KFL-1550-40NR-08WH-DA m linear luminaire, 50W, 4000K, narrow angle,
								8 W	ires, white color, DALI dimming.

#### **Code Definition**

### Length:

12 = 1200mm 15 = 1500mm 24 = 2400mm

30 = 3000mm

#### Power:

30, 40, 60 = 30W, 40W, 60W 35, 50, 70 = 35W, 50W, 70W

#### CCT:

27 = 2700K30 = 3000K35 = 3500K40 = 4000K50 = 5000K57 = 5700K 65 = 6500K

## Beam angle

SP = sharpNR = narrow WD = wide

FD = flood

DS = double asymmetric

RS / LS = right / left asymmetric FF / FT = flat frosted / transparent

#### Wire quantity:

Function: 05 = 5 wires. E1 = 6W emergency power supply 08 = 8 wiresE2 =12W emergency power supply 12 = 12 wiresB1 = 1800mAh emergency battery pack Color of the housing: B2 = 3600mAh emergency battery pack WH = white shell DA = DALI dimming BK = black shell 10 = 1-10V dimming SV = silver shell



### Order Number List - Node Connector - Feed-in Box

Category	Model	Wire Quantity	Color	Code Definition
KFN -	BF	05	WH	Model:
		08	BK	BF= Feed-in box
		12	SV	
				Wire quantity:
				05= 5 wires
B. A. S.				08= 8 wires
100	The state of			12= 12 wires
				Color:
		e	.g.: KFN-BF-05WH	WH= white
		F	eed-in box, 5 wires, white color	BK= black
				SV= silver

## Order Number List - L, T, X Node Connector

Category	Model	Option	Wire Quantity	Color	Option:
		Χ	Χ	Χ	OI=feed-in by the left side; feed-out by right side
KFN -	L	ol	None	WH	IO=feed-in by the right side; feed-out by left side
	Т	10	05	BK	010=one side for feed-in; two sides for feed-out
		100	08	SV	1000=one side for feed-in; three sides for feed-out
	Χ	010	12		to or other state for feed mi, three states for feed out
		001			
		1000			



L Node Connector



T Node Connector



X Node Connector

e.g.: KFN-LOI-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.	KFLS-1535	KFLS-1550	KFLS-1570
Outer dimensions	1500*76*70mm	1500*76*70mm	1500*76*70mm
Input power	35W	50W	70W
Dip switch to	35/40/45/50W	35/40/45/50W	55/60/65/70W
Input voltage	220 - 240VAC	220 - 240VAC	220 - 240VAC
Input current	0.2A max	0.3A max	0.4A max
Mains frequency	50/60HZ	50/60HZ	50/60HZ
PF (at 230 V, 50 Hz, full load)	0.9	0.9	0.9
Lumen	5600lm/6300lm	8000lm/9000lm	11200lm/12600lm
Efficiency	160lm/W / 180lm/W	160lm/W / 180lm/W	160lm/W / 180lm/W
CCT	2700-6500K	2700-6500K	2700-6500K
CRI	80Ra	80Ra	80Ra
R9	>0	>0	>0
SDCM	<3	<3	<3
Beam Angle	30°, 60°, 90°, 120°	30°, 60°, 90°, 120°	30°, 60°, 90°, 120°
Dealif Aligie	LS/RS, DS, FF	LS/RS, DS, FF	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% - 80%	10% - 80%	10% - 80%
Storage humidity	10% - 80%	10% - 80%	10% - 80%
Ambient temperature Ta	25 /000	25 /000	25 /000
(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 2.0 version / 35W/50W/70W

#### **Product Description**

Tool free installation Continuous line Plug and play

Model No.

#### **Application**

Commercial Industrial Warehouse





Model No.

Dimming

#### **Product description**

Constant current LED driver

Lifespan: 50.000h 5 years warranty

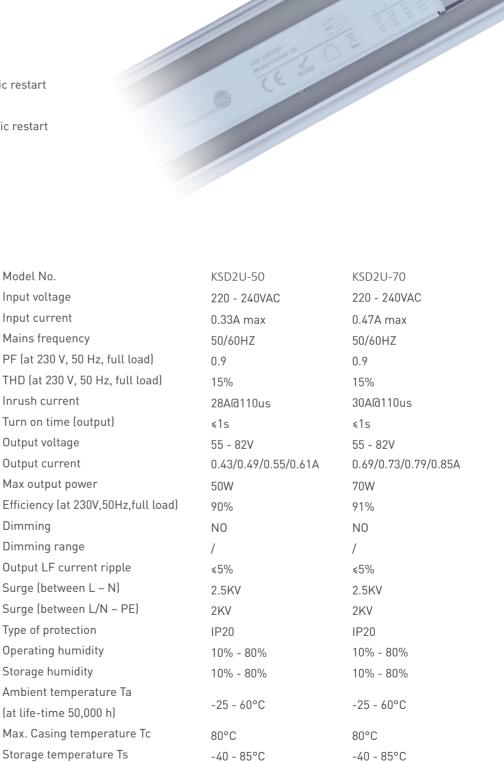
#### **Properties**

Over voltage protection with automatic restart

Overload protection

Short-circuit protection with automatic restart

Surge voltage: 2.5KV



280\*30\*22mm

280\*37\*31mm

www.nelux.com.hk

Outer dimensions



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

Model No.

Input voltage

Input current

Mains frequency

#### **Product description**

Constant current LED driver

Lifespan: 50.000h 5 years warranty

#### **Properties**

Over voltage protection with automatic restart

Overload protection

Short-circuit protection with automatic restart

Surge voltage: 2.5KV

