



'MT' Series

LED Linear Lighting System



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Stylish, modular, easy to upgrade

Integrated Power's MT Series LED Linear Lighting System is an energy-efficient, low maintenance alternative to traditional linear fluorescent in a variety of industrial, commercial and light assembly applications. It is a stylish yet functional solution for both retrofit and new installations.

This highly modular system allows easy maintenance and the flexibility to upgrade or change lighting options with ease.



Benefits

- Cost-effective light-line solution for industrial, commercial
- Excellent light quality with high lumen output to meet different requirements
- Easy to install, reducing time, labor, packaging waste and complexity
- Modular solution – once the racking 'backbone' is installed, different lighting options or accessories can just be clicked into place without rewiring.

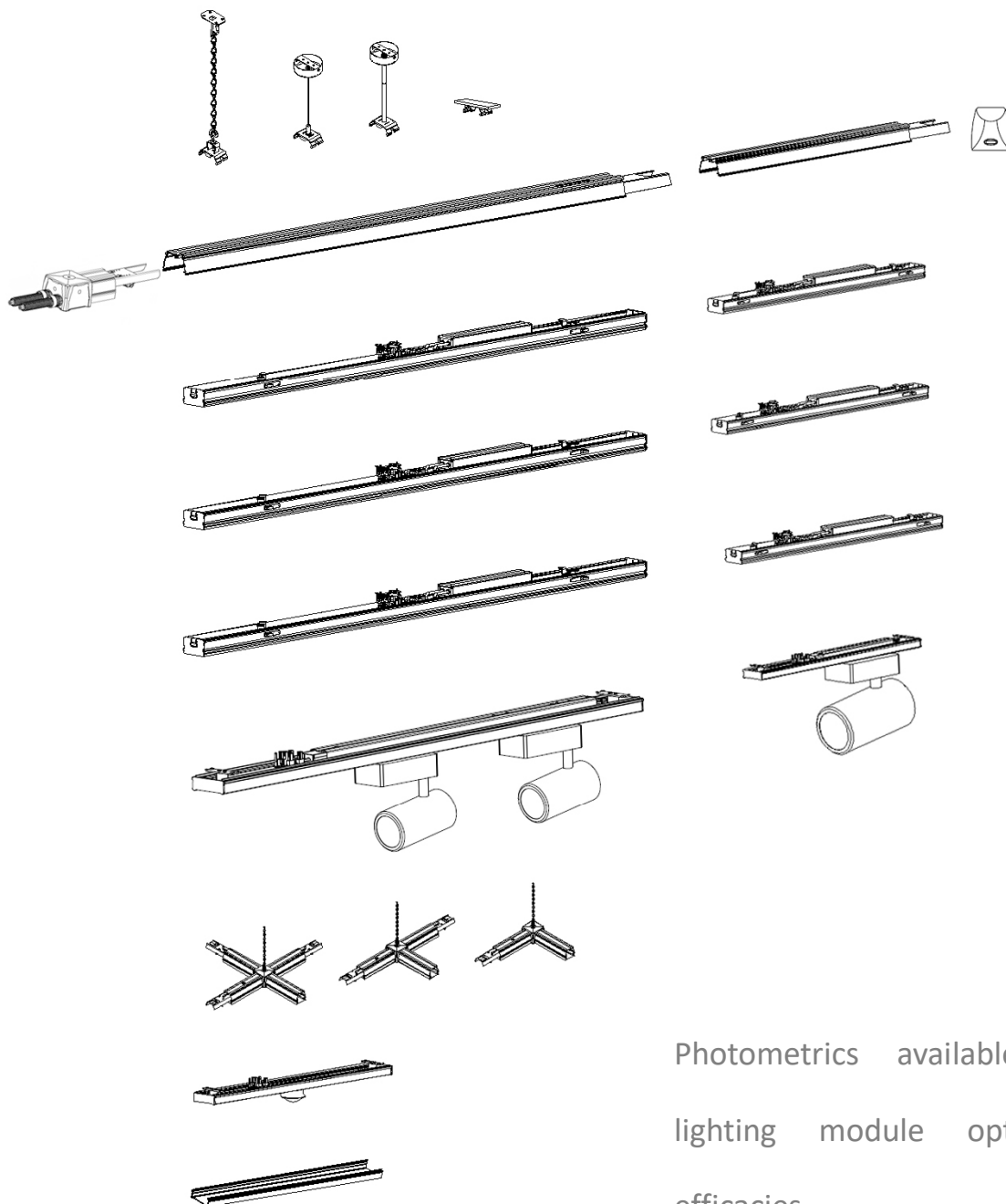
Lighting that can change with your needs



System Overview

The MT Series lighting system is highly modular and offers an extensive range of both installation options as well as multiple luminaire modules and adapters.

Designers have the flexibility incorporate a myriad of both practical and aesthetically pleasing lighting options throughout an installation.



Photometrics available for all lighting module options and efficacies

Major Product Advantages

Extensive range of trunking, light engines and installation options

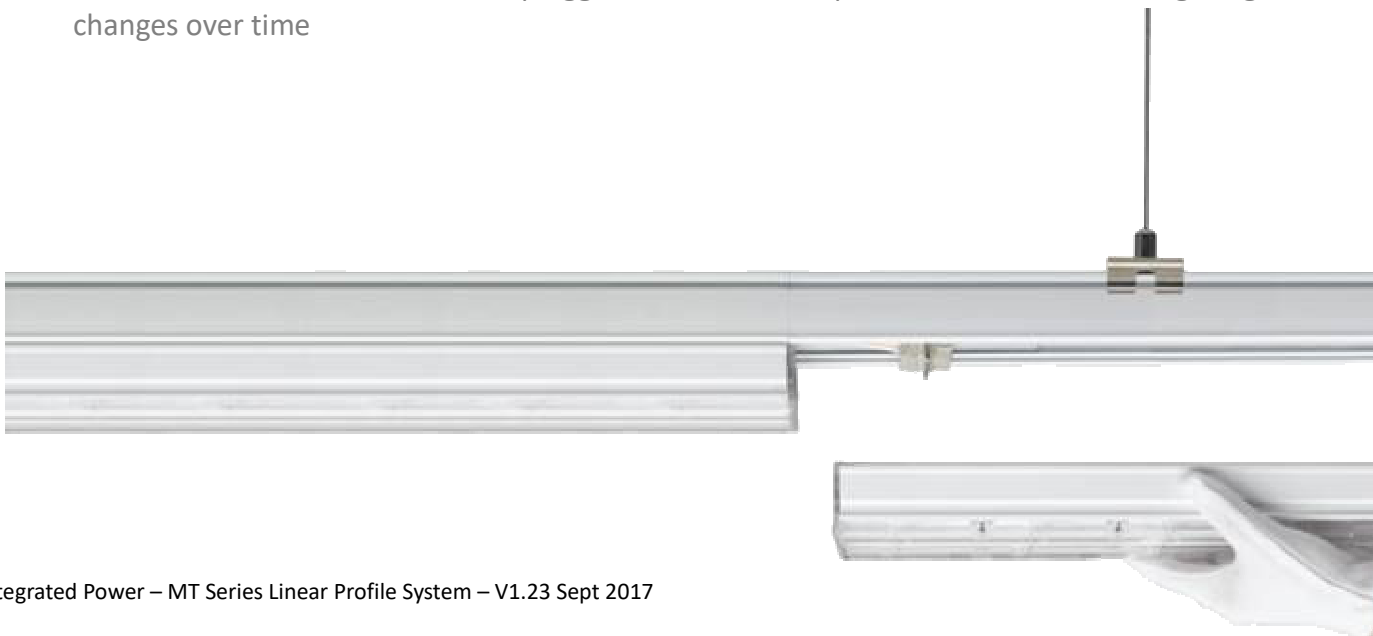
- Significant design flexibility with over 150 products and accessories in the series
- Complete linear solution, with the ability to change lighting options over time
- DALI, motion control, daylight harvesting and emergency lighting capability

Modular and highly flexible

- All racking components are 240V mains 'plug and play', so installation is fast and does not require regular mains connections along the racking runs.
- Racks come pre-wired with up to 11 wire systems making installation fast and reliable. Installers can just click together the racking system and all internal electrical work is completed.
- Once racking is installed, there are almost infinite lighting combinations possible, all of which can be interchanged through a module based plug and play connection system. No rewiring, plug and play.

Easy to maintain and change

- Given each module is individually fed from the mains racking, any failure effects only that module and does not take out a full string. Modules can be easily swapped out and simply plugged into place
- Different luminaire modules can be plugged in and out for special events or as building usage changes over time



Section 1 – Trunking System

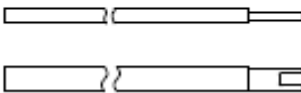
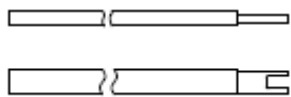
Physical Specifications



Wiring - 5/7/11 wire options @ 2.5mm² / cable

- Surface or suspension mounted |
- Pre-assembled rail connector, wire connector and terminal block
- 5/7/11 pre-wired
- Black, white or silver finish color options.

Rail sizes



Trunking Rail

- 3-phase pre-selection via moving of contact pin prior to installation in rail
- Trunking rail as standard with 5, 7 or 11-core through-wiring with 2.5mm² cable cross-section
- The maximum current is 16A, allowing 44 tubes of 150cm 80W in one run
- Separate power supplies, dimming or emergency supply can be integrated
- Electrical feed possible in central or end area of a trunking rail arrangement via special trunking rail elements
- Trunking rail modules come with pre-assembled connectors – plug and play
- Wide distances between suspension points to a max of 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

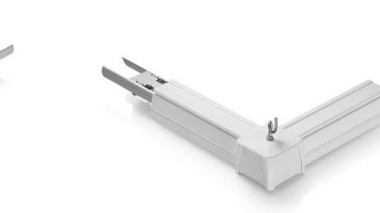
Rail Connection Options



X Node Connector



T Node Connector



L Node Connector

Rail Wiring Options – 5 core / 7 core / 11 core

5-Core trunking rail :

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

7-Core trunking rail :

	Wire Qty	Function Description	Wiring						
			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

11-Core trunking rail:

	Wire Qty	Function Description	Wiring										
			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	EN	EL1	DA/N	DA/L	L3	L2	L1	FG	N	---	CHR
Mode 10	11-Core	Standard function, 1-10V, Battery and EMG1	EN	EL1	DIM-	DIM+	L3	L2	L1	FG	N	---	CHR
Mode 11	11-Core	Standard function, Battery, EMG1 and EMG2	EN	EL1	EN2	EL2	L3	L2	L1	FG	N	---	CHR
Mode 12	11-Core	Standard function, DALI and EMG1	EN	EL1	DA/N	DA/L	L3	L2	L1	FG	N	---	CHR
Mode 13	11-Core	Standard function, 1-10V and EMG1	EN	EL1	DIM-	DIM+	L3	L2	L1	FG	N	---	CHR
Mode 14	11-Core	Standard function, EMG1 and EMG2	EN	EL1	EN2	EL2	L3	L2	L1	FG	N	---	CHR

FG: Ground

EL1: Emergency 1 supply Live

EN1: Emergency 1 supply Neutral

EL2: Emergency2 supply Live

EN2: Emergency2 supply Neutral

DIM+: Positive of 1-10V input

DIM-: Negative of 1-10V input

DA/L: Positive of DALI input, or Live when work as DIM switch

DA/N: Negative of DALI input, or Neutral when work as DIM switch

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

Wiring Layout – 11 core system

2 control lines with DALI control
signal for brightness control
(2 x 2.5 mm²)

4 poles for two independent emergency
lighting circuits
(4 x 2.5 mm²)



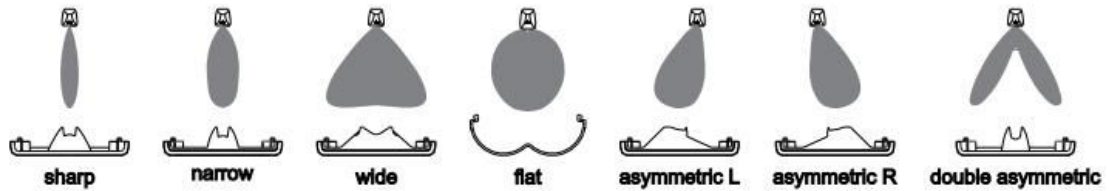
5 connections for power supply (5 x 2.5 mm²)

- Load sharing allows triple continuous- row length
- Separately switchable circuits for extremely easy light control in triple circuit

Surface in white , black
or silver finish

Section 2 – Luminaire Modules

7 Beam distribution options



4 module lengths and multiple wattage options per length

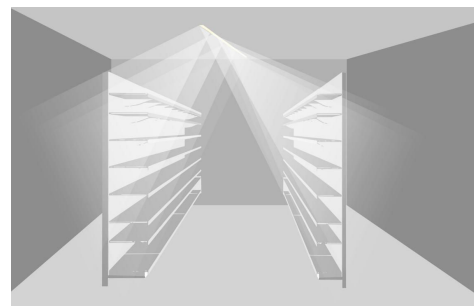
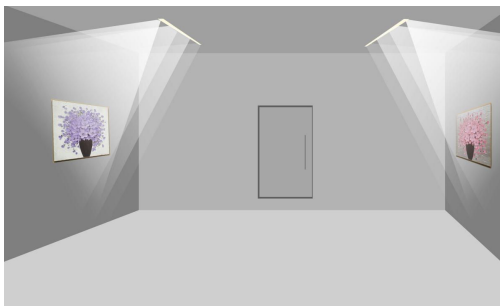
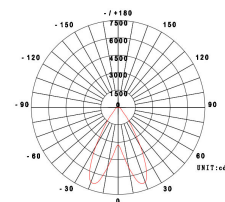
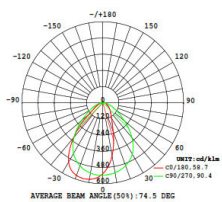
- 570mm 16W/ 26W/ 32W
- 1416mm 32W/40W/ 65W/ 80W
- 2832mm 65W/80W/120W
- 4248mm 96W/120W



Other Options

- 3000K, 4000K, 5000K, 6000K
- CRI>80+, CRI>95+
- Low UGR
- 130lm/W and 160lm/W

(Photometry available for all distribution and efficacy options)



Section 3 – Accessory Modules

Track module

Track modules can be incorporated into any part of the racking system to highlight pictures, paintings or displays. Due to the functional nature of the racking system there is the option to switch these modules in and out of the racking arrangement for special events or as usage of the building changes over time.

The 'switchable' option in the modules mean they can be set with any of the switched cables in the racking for greater control.



E14/E27 lamp Base Module

This module allows regular E14/E27 GLS lamps to be used along the racking.



Blank cover plates

Blanks can be used to cover sections of trunking that do not require luminaires



Section 4 – Dimming, motion control and daylight harvesting

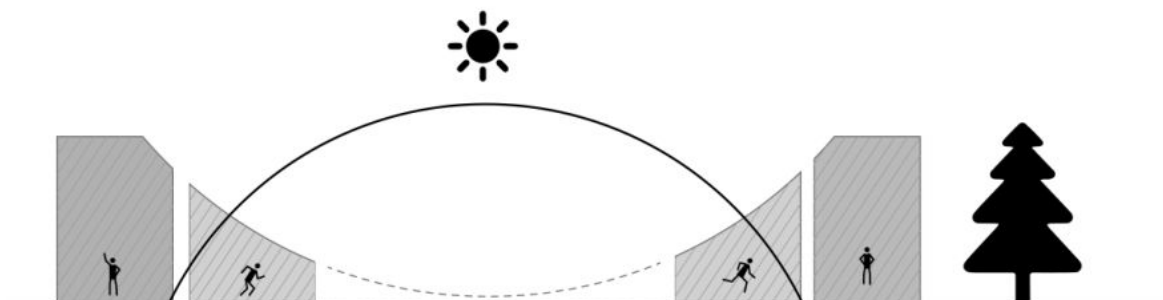
Dimming

- Dimming options include 1-10V and DALI
- All luminaire modules can be manufactured to dim under either protocol as required



Motion control and daylight harvesting

- Motion control and daylight harvesting can be achieved through DALI control and sensor modules
- These sensors can be configured to control any part of the luminaire system



Section 5 – Emergency lighting options

Flexible emergency options

- The trunking system can integrate self-contained emergency (internal battery) or external power (external battery systems or back up generators) systems
- In the 11 wire trunking system, 2 separate emergency circuits can be used
- There are two internal battery options: 1800mAh (CSB1) and 3600mAh (CSB2), which deliver different illumination and duration time under 6W (CSD-E1) or 12W (CSD-E2) emergency power
- Test buttons and indicator lights can be installed in the system



Section 6 – Installation options

Surface and suspension options

- Chain, steel wire, rod and surface options
- The high strength connection system means mounting connections can be spaced up to 3m apart



Chain



Cord



Rod



Surface Mounted





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