

THORN
LIGHTING



CONTUS
FOR RETAIL

Linear lines of light installed in market-leading time

EFFICIENT, FLEXIBLE TRUNKING SYSTEM

WITH BEST IN CLASS INSTALLATION TIME
AND EASY MAINTENANCE

Contus is Thorn's primary ambient lighting solution for retail environments. It can optimally support different areas from the sales floor such as shelving, merchandise, aisleways and general circulation routes, as well as stock rooms and warehouses back-of-house.

Contus provides uniformity of light, through its precision lens optics with a variety of beams including shelf beam and wide beam, appropriate for different areas within the retail space.

Contus trunking is highly flexible; easy to suspend or mount from the ceiling. The patented tool-free electro-mechanical twist and lock mechanism allows Contus batten luminaires to be rapidly installed, saving time and cost. Contus is fully adjustable to cater for the constantly changing needs of a retail sales environment.

Contus is ideal for both store refurbishment as well as new-build projects, both with their own complexities with regard to energy efficiency, cost reduction and installation time constraints.

The battens are rated to IP50 to ensure they are protected from dust and dirt ingress, preserving the light efficiency through the precision optics. With up to 163 lm/W efficacy, up to 10,000 lumens and 50,000 hours lifetime (L80) Contus can be trusted to perform.



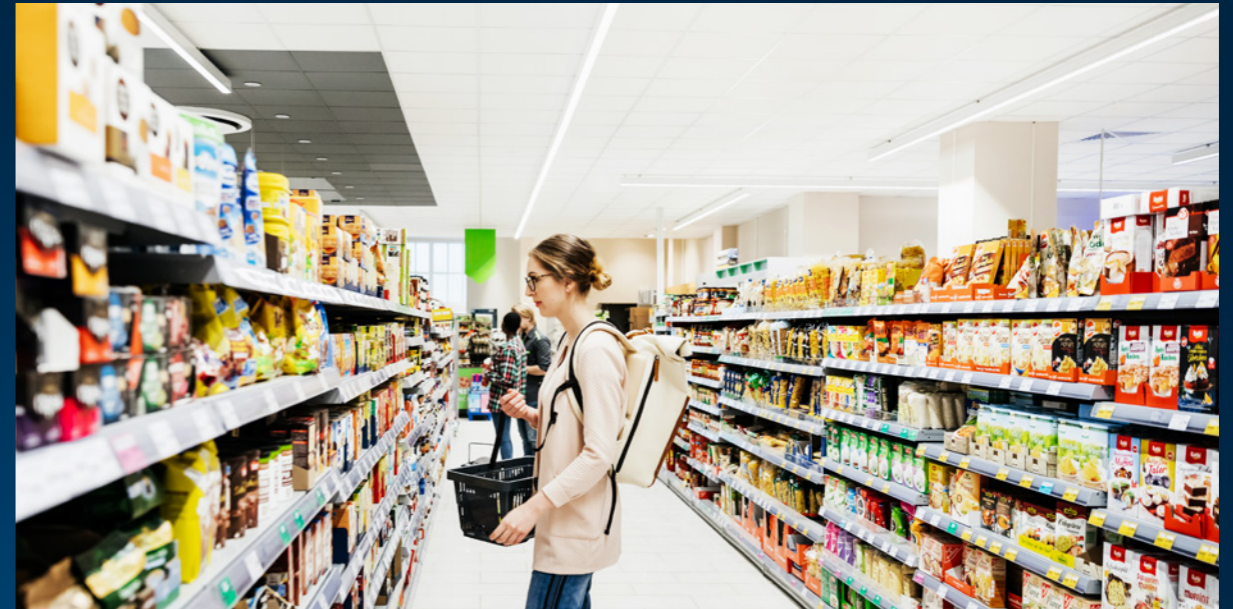
Retail



Industry



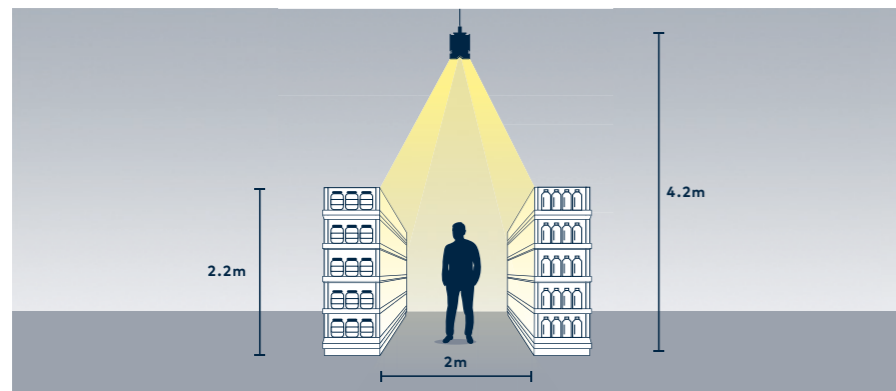
Logistics



ON THE RIGHT TRACK FOR RETAIL

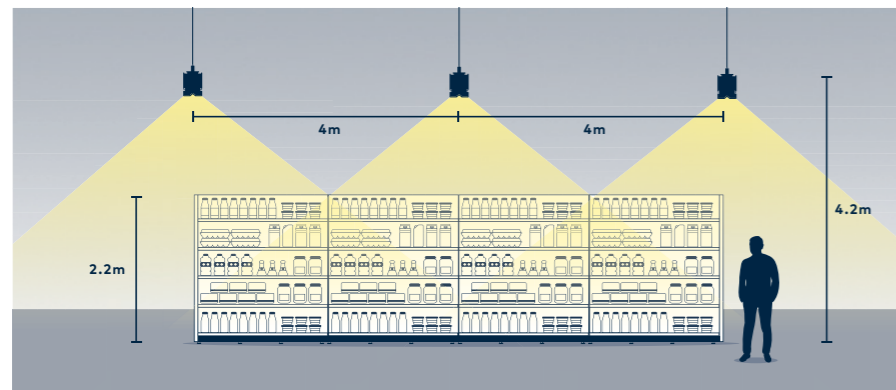
Retail applications such as supermarkets and big box retail like DIY or out of town stores are large spaces, requiring high levels of illumination, with the additional requirement to reduce cost of installation and maintenance.

Trunking allows for a cost-effective infrastructure and flexibility in the lighting design. Contus can be configured with a choice of four batten optics - shelf, wide, very wide and narrow beam, depending on the task.



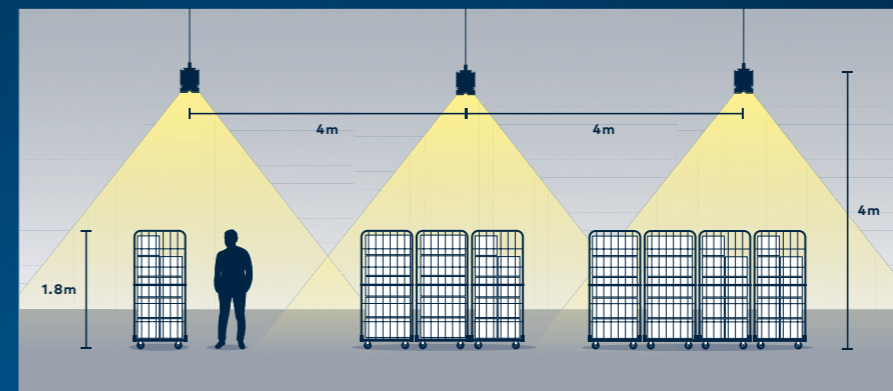
MERCHANDISE SHELVING & AISLEWAYS

The **shelf beam** optic of Contus is used to deliver high vertical illuminance and uniformity to the products within the aisles, focusing consumer attention to the product, whilst not over-lighting the aisleway. This results in more efficient use of light, driving additional cost efficiency.



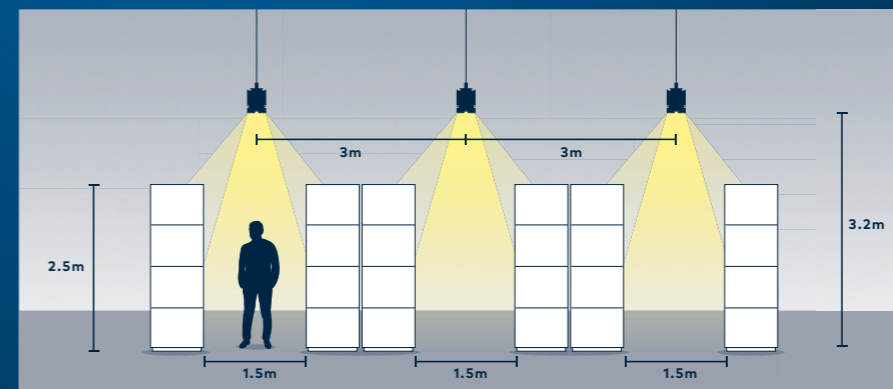
CROSS-AISLE LIGHTING

Cross-aisle is a cost-effective way of illuminating a retail space from an installation standpoint. Utilising the **very wide beam** optic of Contus to increase spacing of rows between luminaires, we can reduce the number of fittings and also maintain good illumination to the vertical planes within the aisles as well as general circulation and other open areas, saving both energy and installation time and cost.



FAST MOVING STOCK AREAS

Contus with the **wide beam** optic is an ideal choice for busy, fast moving stock areas with its wide distribution at lower mounting heights, providing uniform lighting that helps to minimise hazards in these areas. Warehouses and stock rooms have continuous goods-in / goods-out to constantly replenish the sales floor. It is important that these areas are well lit and have good uniformity increasing safety of occupants when moving stock cages within the space.



HIGH VALUE ITEM STORAGE

Utilising the **narrow beam** optic, Contus provides uniform illumination to the shelf surfaces, aiding employees within these typically narrow spaces, minimising picking errors and encouraging faster workflow. Additional benefits include minimising waste light to the tops of the shelves, increasing efficiency and reducing energy costs.

RISING TO THE CHALLENGE

Efficiently lighting large stores such as supermarkets with long opening and operating hours poses a significant challenge to retail companies.

Items like food, clothing and electronics all must be lit to a high level of illumination, assisting the consumer purchasing process. The stores will likely contain thousands of items that require regular restocking such as fresh produce and other fast-moving goods, therefore retail employees will also rely on high quality light to carry out their duties front and back of house. Dimming the light during store closure hours to save energy, while still providing adequate light for late-night restocking is made easy with Contus' DALI compatibility.

Thorn's trunking and batten system is the ideal partner for retailers with the product providing benefits including ease of installation, high lumen output, choice of retailer-friendly optics, durable build quality and long lifetime.

LONG LIFE AND FEWER LUMINAIRES

Contus combines excellent luminous efficacy (up to 163 lm/W) with a long lifetime (50,000 hours at L80). Thanks to innovative optics and high lumen packages, even the distance between the continuous rows can be significantly increased. In summary, fewer luminaires may be required thanks to the wide beam and very wide beam optics, resulting in a faster return on investment.

The combination of benefits allow retail customers to budget for fewer luminaires, saving investment costs and energy. Good for your budget and good for the environment.

LOW MAINTENANCE

IP50 resistance to dust and dirt minimises cleaning and provides an extended maintenance cycle - very convenient in busy retail stores, with high footfall and very limited access to the luminaires.

PRECISION OPTICS

The twin-lens optic design of Contus battens distributes the light precisely from the centre to the lateral edges, providing controlled vertical lighting to the products on the shelves below.

TWIST & LOCK MECHANISM

The tool-free electro-mechanical twist and lock mechanism allows Contus batten luminaires to be rapidly installed and maintained throughout their life, saving time and cost.

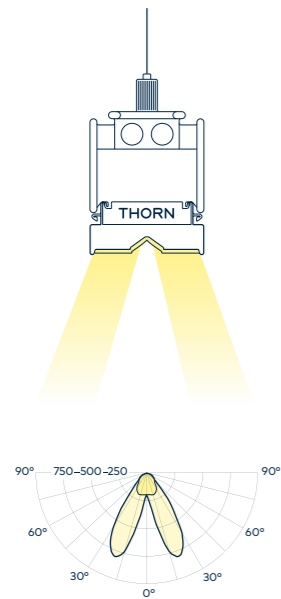
EXTRA LENGTH

Contus battens are available in 1, 1.5 and 2 m lengths. The 2 metre batten offers more benefits than the shorter variants, as around 25 % fewer luminaires will be required to light the space, resulting in an installation time reduced by up to 40 %, compared with shorter continuous row luminaires.

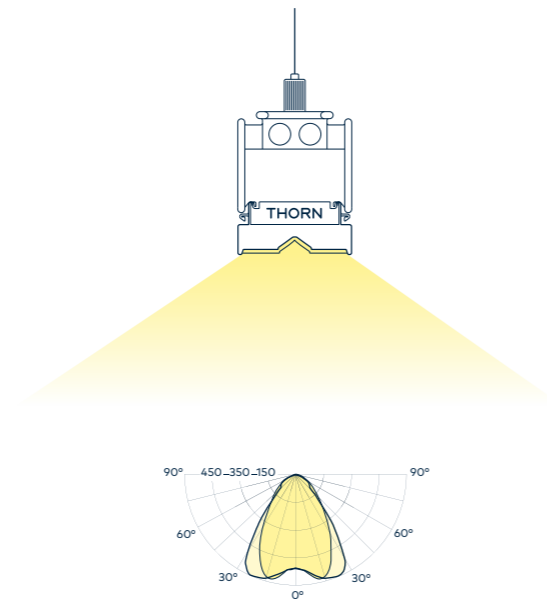
TASK OPTIMISED OPTICS

A choice of four specially designed Contus batten luminaires, each with unique optical characteristics, can be installed on the Contus trunking system. Thorn Contus battens will ensure that different areas of a retail store will be lit in the most optimal way.

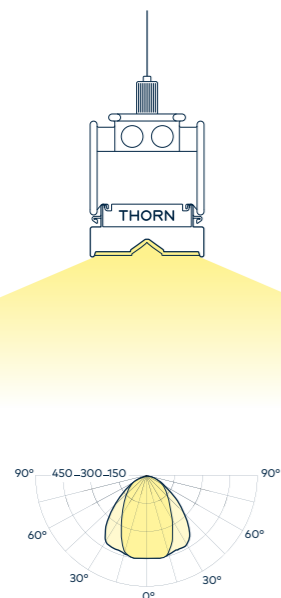
SHELF BEAM DOUBLE ASYMMETRIC



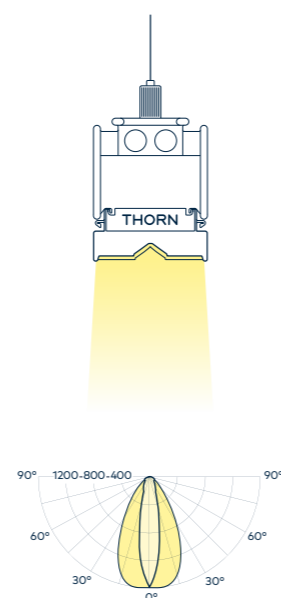
WIDE BEAM



VERY WIDE BEAM



NARROW BEAM

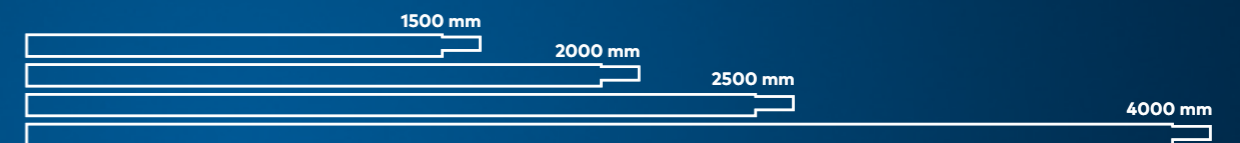


MODULAR INFRASTRUCTURE



THE CONTUS TRUNKING SYSTEM

Comprising of standard modular components in lengths of 1.5, 2, 2.5 and 4 metres. This makes lighting design and implementation easy thanks to gradation in 0.5 m increments. Customers will save time with planning and installation.



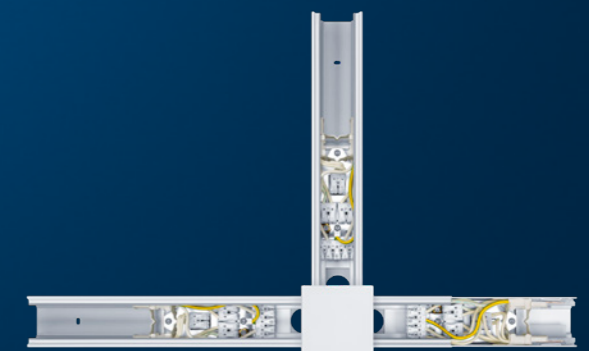
BLANK END TRUNKING

Supplied as a 1 metre channel, this can be cut to length by the customer. This ensures a seamless finish and allows for electrical feed-out, so you can join multiple Contus lines together.



NODE CONNECTORS

Using various node connectors, Thorn's Contus continuous-row lighting system can be assembled and combined in a myriad of variants. Contus L and T nodes open up many different options for creative design using linear light. The structures themselves can therefore become a fundamental part of the interior design.



SUSTAINABLE, ECONOMIC LIGHTING



5 connections for power supply (5 x 2.5 mm²)
Separately switchable 3-phase circuits for simple light control.



4 poles for two independent emergency lighting circuits (4 x 1.5 mm²)
Two independent emergency lighting circuits allow optimal integration of emergency lighting with the general lighting.



2 control lines with DALI protocol for brightness control (2 x 1.5 mm²)
Efficient, flexible, customised lighting control.

Lighting and energy management are extremely important in retail applications.
Typically there are three illumination settings:

- 01** General store opening hours (Full Output)
- 02** Stock replenishment before and after store opening hours (50% dimming or switching)
- 03** Cleaning hours (75% dimming or switching)

QUICK AND EASY INSTALLATION



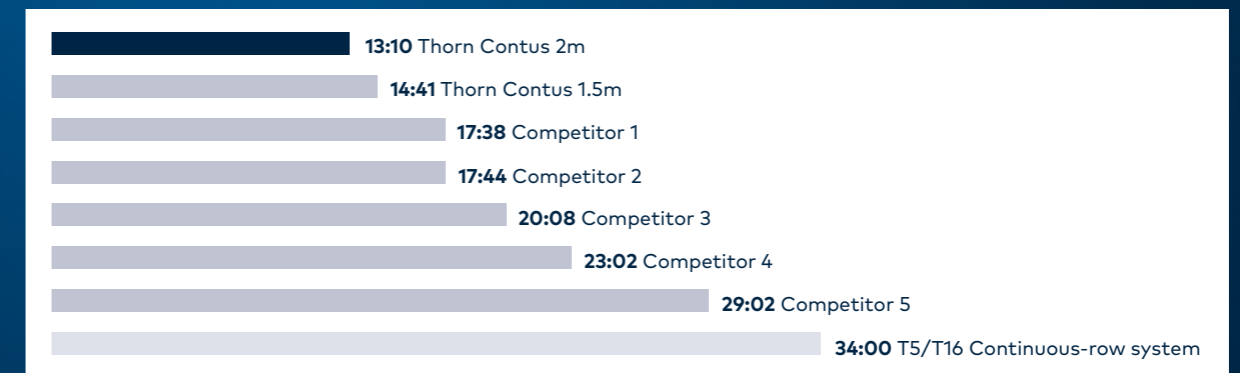
Consultants, contractors, wholesalers and electricians will all be impressed with the simplicity of configuration and installation of Contus. It provides a streamlined infrastructure with high flexibility and fast, tool-free installation.

A comparison was made of eight different continuous-row LED trunking systems, with regard to the installation time required for a 15 metre long arrangement.

Conducted by an independent external consultant, the results illustrate that Contus can be installed considerably faster than comparable products.

Up to 55 % of time is saved in comparison to continuous-row LED systems of lighting competitors. Installation time saved equals money saved, and this can be a significant factor in any new-build or refurbishment scheme, where linear lighting is required in multiple locations.

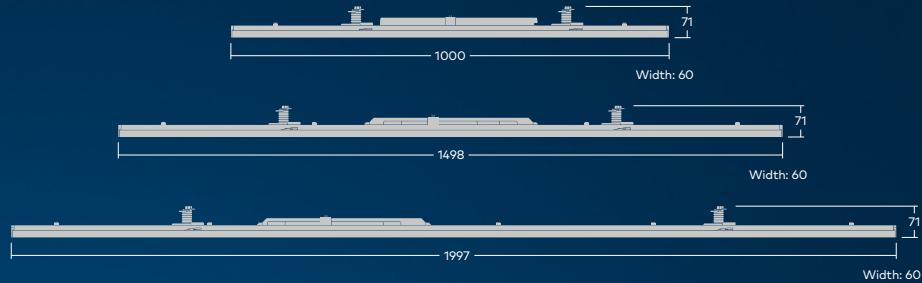
Thorn's Contus solution can also save more than 61 % of time on average, compared to conventional T5/T16 solutions.



TEST CONDITIONS SETUP:

Length of continuous-row 15 m, ceiling height 3.7 m, height of continuous-row 3.2 m, 2 installers with ladders.
The time indicated is for mounting, excluding unpacking and assembly of suspension systems (approximately 30 min).

CONTUS



	1000 mm	1500 mm	2000 mm
	128 LEDs	192 LEDs	256 LEDs
	3000 K / 4000 K		
	HE: 3700 lm (1000 mm), 5500 lm (1500 mm), 7400 lm (2000 mm) HO: 5200 lm (1000 mm), 8000 lm (1500 mm), 10 000 lm (2000 mm)		
	Up to 163 lm/W		
CRI	80		
UGR	< 22		
	IP50		
	HE: -10 °C to 35 °C, HO: -10 °C to 30 °C		
	IK07		
	L80 @ 50 000 h		
	WB (Wide Beam), VWB (Very Wide Beam), NB (Narrow Beam), SB (Shelf Beam)		
	(WH) White		
	Switchable / DALI		
	ECD		
	MacAdam 3		



As a globally leading luminaire manufacturer, Thorn Lighting provides a five-year warranty for its complete product range within all European Countries.
thornlighting.com/guarantee

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**WE
MAKE
LIGHT
WORK**