

THORN
LIGHTING



OXANE

Modern technology meets classic style



**WE
MAKE
LIGHT
WORK**

THE CLASSIC AESTHETIC UPDATED FOR THE NEEDS OF TODAY

OXANE HAS LONG BEEN A POPULAR CHOICE FOR ILLUMINATING ROADS AND STREETS.

With its sleek, elliptical styling, it fits seamlessly into modern cities, major highways, and more traditional towns and villages alike. The new generation retains the classic aesthetic while incorporating the benefits of upgraded LED technology.

A wide range of optics and connectivity options are available, along with a high-quality driver, all housed in 100 % recycled, corrosion-resistant die-cast aluminium. Designed for the circular economy, Oxane is built to last. The luminaire is designed for simple, straightforward maintenance, and all components can be replaced or upgraded with ease.



Motorways
and major
roads



Minor and
urban roads



Residential
streets



Parking



Pedestrian
areas



Intersections

//

Identity, functionality, and vitality were the guiding principles in creating this luminaire. The first generation of Oxane made a statement with its originality and distinctiveness. The new generation will honour these values, not only by reflecting on its origins, but also by looking into the future. The new design is even more dynamic and slim, with crisp feature lines that accentuate the oval theme.

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Hans Philip Zachau, M.Sc.
Zachau Design AB



Designed by

zachau&isap

MAINTENANCE AND UPGRADE

Oxane's tool-less opening and convenient safety stay gives easy access for maintenance and upgrades. Large internal spacing means components can be added, upgraded and replaced with ease.



SPIGOT END CAP ACCESSORY

Flexible top and lateral standard spigot with large tilting capabilities. The optional spigot cap accessory ensures a clean, sleek finish for both post-top and lateral mounting.

CONNECTIVITY

Smart City ready: Oxane comes future-proofed thanks to two optional Zhaga interfaces for state-of-the-art light control, wireless networking and diverse range of sensors.

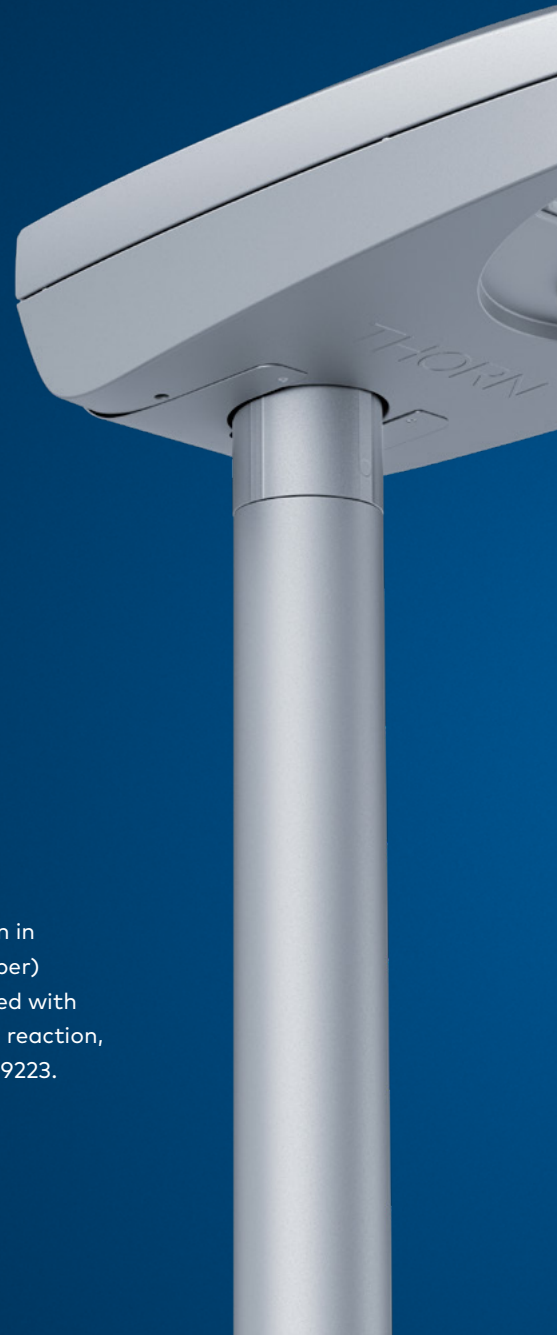


UrbaSens ready



ROBUSTNESS AND PERFORMANCE

Oxane is designed as standard for long-lasting performance, even in coastal or subtropical applications, with high quality (< 0,1% copper) EN AC 44300 die-cast aluminum and stainless steel screws treated with zinc flake Geomet® coating to avoid any galvanic electrochemical reaction, the most critical type of corrosion. C5 corrosion protection – ISO 9223.





DESIGN AESTHETIC

Inspired by the enduring popularity of the Oxane family, the new generation of the Oxane lantern stays true to its classic aesthetic. Accent creases enhance the lantern's oval theme and streamlined elliptical shape. The opening and locking system of the Oxane lantern is positioned on the top, maintaining its slim, modern appearance as viewed from the ground.

AESTHETIC BRACKETS

Explore our selection of columns and brackets and create a unique style for your Oxane lighting scheme.



OPTICAL PERFORMANCE AND DIVERSITY

Oxane has it all: 0 % ULOR, high performing optics from Thorn's renowned R-PEC light engine, optional Zhaga standard compliant LED modules and NightTune capabilities with optimised 2-channel driver.



CIRCULARITY BY DESIGN

Oxane has been designed with circularity at its core. The 100 % recycled aluminium body uses an alloy grade chosen specifically for its ability to withstand harsh conditions for premium corrosion resistance. All components can be replaced and upgraded, future-proofing Oxane for years to come. Even better, with no glue used in the manufacturing process, it's easy to manage end of life.

CONNECTIVITY

With its Zhaga D4i (ZD4i) certification, Oxane is ready for the digitalised future, right out of the factory.

URBASENS READY



URBASENS DETECT

APPLICATION: Urban communities, pedestrianised zones, schools, city landmarks, bus and tram stations, small parking lots

SCALE: Single lighting point (standalone)

TECHNOLOGY: PIR, radar, Zhaga interface

UrbaSens DETECT is a standalone (i. e. point-to-point level) outdoor lighting control system that utilises dedicated MovU components such as PIR detectors, vehicle radar or a separate Zhaga interface. Designed for targeted lighting control applications, UrbaSens Detect is ideal for urban communities and high pedestrian traffic areas. It is also suitable for areas that require monitoring, such as hazardous intersections or speed regulation zones, and areas where nocturnal wildlife or energy saving are key priorities. UrbaSens Detect is easy to implement and manage, making it an ideal first step in your smart city journey.



URBASENS CIVIC CONNECT

APPLICATION: Towns, suburban areas, car parks and transportation hubs

SCALE: Small to medium size lighting networks

TECHNOLOGY: M2M (Machine to Machine) network. Communication without direct human intervention.

UrbaSens CIVIC CONNECT is the cutting-edge outdoor lighting control system that utilises state-of-the art M2M (machine-to-machine) network technology such as NB-IoT (narrowband internet of things) or Cat-M1 (low power wide area network). Specifically designed for towns and suburban areas, our system seamlessly integrates with these networks to deliver unparalleled connectivity, allowing you to effortlessly manage and optimise your lighting infrastructure. Experience the power of easy deployment of UrbaSens CIVIC CONNECT and unlock a new era of smart and efficient outdoor lighting, powered by the latest M2M innovations.



URBASENS CITY CONNECT

APPLICATION: Cities and city centres, large car parks, major transportation hubs

SCALE: Medium to large size lighting networks

TECHNOLOGY: Mobile network, internet, ethernet, mesh network

UrbaSens CITY CONNECT is the ultimate outdoor lighting control system, tailored for cities and areas with high pedestrian or vehicle traffic. With a single point of internet connection and advanced 2.4 GHz mesh technology, our system effortlessly connects up to 200 devices to a gateway, ensuring seamless control and unmatched efficiency. Experience the future of urban lighting with UrbaSens CITY CONNECT, where advanced motion sensor scenarios like the captivating 'Train of Light' add a touch of magic to your cityscape, creating an enchanting ambiance that captivates both residents and visitors alike.



URBASENS CIVIC CONNECT

LIGHTING CONTROL FOR TOWNS



FEATURES CIVIC CONNECT



NIGHTTUNE

Advanced technologies are now further optimised through DALI Addressing.



AUTOMATIC LOCALISATION

Integrated GPS for easier commissioning and precise management.



INTEGRATED CONNECTIVITY

10 years of network connectivity included with IoT network (NB-IOT, CAT-M1).



INTEGRATED SIM

Sim is preloaded in the node ready for commissioning.

SHARED FEATURES



WEEKLY CALENDAR

7 day week calendar to best reflect site specific behaviours.



OVER THE AIR UPDATE

The system can be updated wirelessly once installed.



REALTIME CONNECTIVITY

With UrbaSens CIVIC CONNECT and CITY CONNECT you can send commands and retrieve information almost instantly.



LIGHT SENSOR

Advanced lux level based switching.

URBASENS CITY CONNECT

LIGHTING CONTROL FOR CITIES



FEATURES CITY CONNECT



MOTION SENSING

Precision based presence detection via a D4i motion sensor.



ASTRO CLOCK

Switching local sunset and sunrise.



ENERGY REPORTING

Get exact energy saving reports.



FAULT NOTIFICATION

Alerts are available on the UrbaSens platform and a daily notification email can be configured.



MESH AND GROUPING

The system uses 2.4 GHz mesh and manages the network. Up to 200 nodes per gateway.



ADVANCED MOTION SCENARIOS

Acting as a group sensor, UrbaSens CITY CONNECT can deliver a train of light, ensuring that neighbouring luminaires are gradually triggered.

THE URBASENS ECOSYSTEM FOR OXANE

URBASENS DETECT HARDWARE



MOVU PIR MOTION
SENSOR

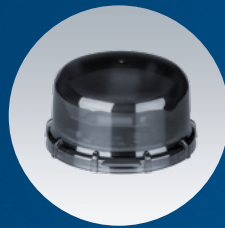
CIVIC CONNECT HARDWARE



ZHAGA DOWN
MOTION SENSOR



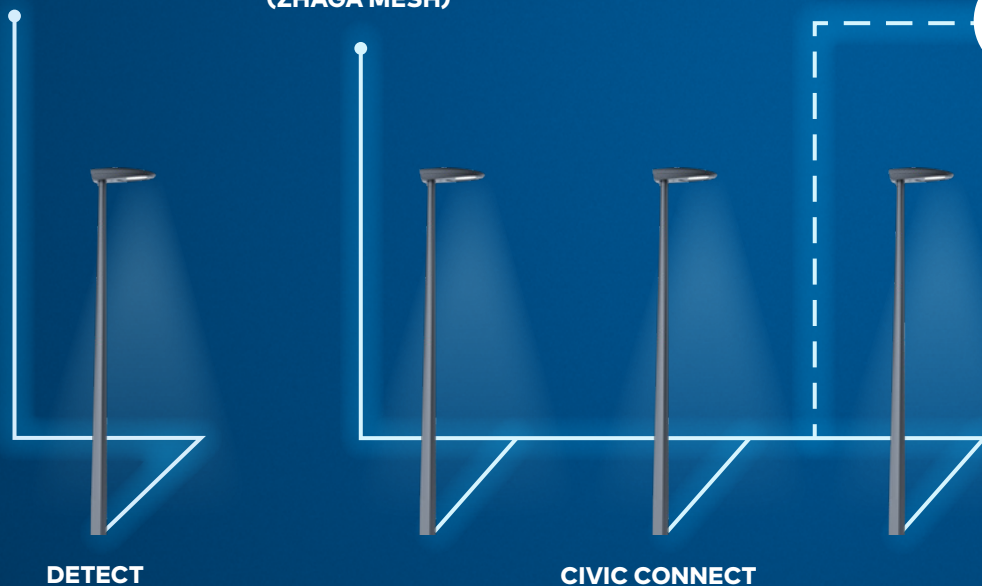
MOVU VEHICLE
RADAR



RF CONTROLLER
ZG SIM AND ZHAGA
(ZHAGA MESH)

URBASENS PLATFORM

CENTRAL
MANAGEMENT
SYSTEM (CMS)



CITY CONNECT HARDWARE

RF GATEWAY



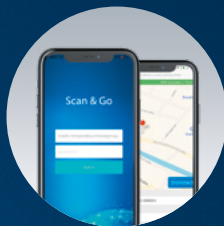
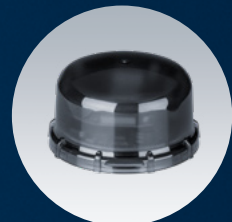
RF CONTROLLER
E (EXTERNAL)



RF CONTROLLER
PIR E (PRESENCE
INFRARED
EXTERNAL)



RF CONTROLLER
AND ZHAGA
(ZHAGA MESH)



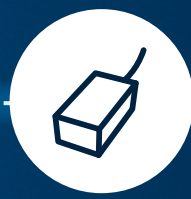
SCAN AND GO
COMMISSIONING
APP



Cloud



Mobile network,
WiFi and Ethernet



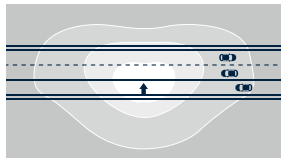
Gateway



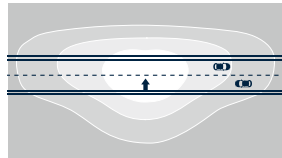
CITY CONNECT

OPTICAL PLATFORM

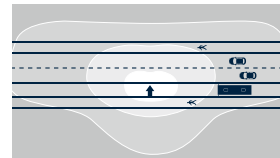
Because every application is different, Oxane uses Thorn's unique R-PEC® optic to offer unprecedented optical flexibility. A choice of several precise light distributions is available for highly efficient and comfortable light, exactly where it is needed, whether lighting a residential street, a busy road, a cycle path, or a pedestrian crossing.



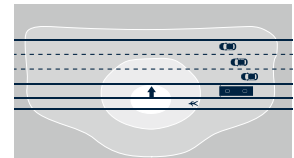
NARROW ROAD (NR)



WIDE ROAD (WR)



**WIDE STREET
COMFORT (WSC)**



**EXTRA WIDE STREET
(EWS)**

BACKLIGHT CONTROL

Where obtrusive light spill is a concern, internal louvres are available for reduced backlight.



ROBUSTNESS AND PERFORMANCE

Oxane's LEDs offer an extremely low depreciation rate (up to L98 – 100,000 hours) meaning Oxane will still provide 98 % of its initial flux more than 20 years after its installation.

NIGHTTUNE TECHNOLOGY



NightTune creates the perfect balance in lighting at night. It gives a sense of security and wellbeing for people whilst conserving energy and protecting ecosystems. NightTune automatically adjusts the level of light emitted from a light fitting, mixing dimmable light from warm and cool LEDs. Cooler LEDs dim when night falls and increase when traffic levels rise in the morning, leaving warmer LEDs on throughout the night.

The result is a lighting scheme that meets the demands of a range of project stakeholders and shows consideration towards all living beings: human activity and safety during peak use times and, as human activity reduces during night hours, nocturnal wildlife.

Equipped with the latest two channel driver technology, Oxane proudly offers NightTune technology to decision makers in search of the ideal balance for more responsible lighting replacement schemes.



Compatible with
UrbaSens Civic Connect

CORROSION: A SERIOUS MATTER



Over the years, outdoor lighting fixtures are subject to severe atmospheric constraints. ISO 9223:2012 established a classification system (C1 to C5) for the corrosivity of various environments by specifying the key factors of atmospheric corrosion of metals and alloys: temperature-humidity relationship, pollution by sulfur dioxide and salts in the air.

Oxane, like the majority of the Thorn outdoor portfolio, is rated at Category 5 (C5 – very high corrosion resistance) and can therefore be installed on coastal and tropical applications.

Its die-cast body and cover are manufactured using an alloy specifically chosen for its low amount of embedded copper (< 0.1%), the main element responsible of the harshest type of corrosion. Oxane's fixing system is carefully treated to avoid direct metal to alloy contact and further reduce risk of corrosion.

Once corrosion begins there is little that can be done to stop it: it will only worsen until the product begins to leak and, ultimately, fails. When selecting a replacement, ensuring sufficient corrosion protection is a decision that will protect the luminaire for decades to come.



BRACKETS

Continue the theme of Oxane's stylish looks and select from a range of brackets to complement Oxane's aesthetic and add create a sense of identity in any area. Welded mechanical assembly in galvanized steel (according to NF EN ISO 1461), composed of a tubular extension with dedicated arms (60 mm end fitting).

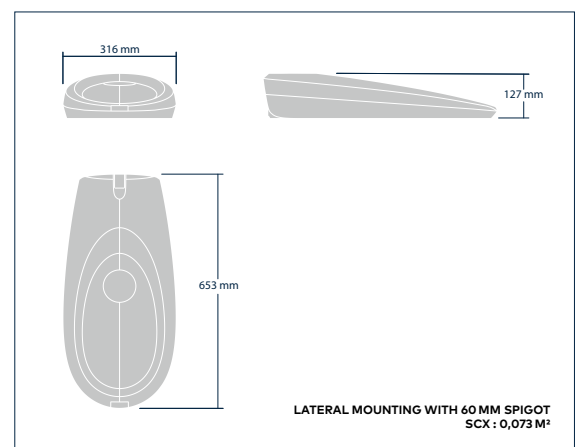
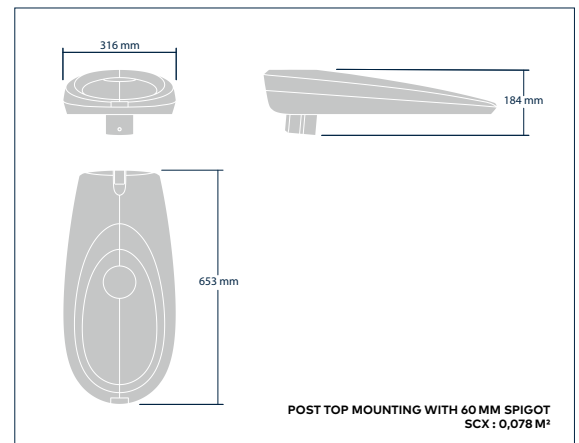




CONFIGURATION GUIDE

thornlighting.com/OXA2

Range	LED	Driving current	CCT CRI	Optic	Louvre	Dimming	DALI	Surge protection	Electrical class	Control	Wiring	Mounting	Color
OX2	OXANE 2nd Generation												light grey sanded with raw spigot
													GY-S light grey sanded
													ANT anthracite sanded
													BK black sanded
													WH white sanded
													RAL... 47 RAL smooth color possibility
													L42E L42E Pre-fitted 42 mm spigot lateral 0°
													L60E L60E Pre-fitted 60 mm spigot lateral 0°
													T60F T60F Pre-fitted 60 mm spigot post top +5°
													optional
													Wxx Prewired xx meter from 3 to 12 m (1.5 mm² HO7RN-F type)
													optional
													ZU Zhaga Up socket
													ZD Zhaga Down socket
													ZUD Zhaga Up and Zhaga Down sockets
													CL2 Electrical Class 2 (double insulated)
													optional
													SP 10 kV multipulse surge protection
													optional
													HFX DALI Dimmable and DALI wiring
													optional
													BPxyz Bi-Power with selectable dimming profiles
													optional
													LV Louvre – internal backlight reducer
													NR Road Narrow
													ENR Extra Narrow Road
													WR Wide Road
													WS Residential Wide Street
													WSC Residential Wide Confort
													EWS Residential Extra Wide Street
													EWC Residential Extra Wide Confort
													IVS Pedestrian crossing - Right
													ZC Pedestrian crossing - Left
													EWR Extra Wide Road
													722 CRI 70 @ 2200 K
													727 CRI 70 @ 2700 K
													730 CRI 70 @ 3000 K
													740 CRI 70 @ 4000 K
													722-40 CRI 70 @ 2200 K + CRI 70 @ 4000 K (Night Tune)
													350 Driving current 350 mA
													500 Driving current 500 mA
													700 Driving current 700 mA
													850 Driving current 850 mA
													12L 12 LEDs
													24L 24 LEDs
													36L 36 LEDs



Configure the ideal product solution with myProduct. The myProduct configurator allows you to easily configure a luminaire according to your needs.
Try it now at www.thornlighting.com/myproduct



DISCOVER

OXANE

	12 LEDs / 24 LEDs / 36 LEDs
	2200 K / 2700 K / 3000 K / 4000 K / NightTune
	Up to 10,500 lm (2200 K) / Up to 11,250 lm (2700 K) / Up to 13,000 lm (3000 K) / Up to 13,500 lm (4000 K)
	Up to 173 lm/W
	70
	< 1%
	IP66
	IK08
	Tool-less with holder for convenience
	C5 corrosion resistance ISO 9223 – suitable for coastal and tropical installation
	–35 °C to 50 °C*
	100,000 h B10L98 @ 25 °C (L95 if > 700 mA)
	R-PEC or Zhaga standard (book 15)
	L42 / L60 / T60 (T76 optional)
	Anthracite grey (ANT), light grey (GY) and 50 RAL options
	10 kV (3 pulses) as standard. Option for 10 kV (multi pulse) and 20 kV (single pulse)
	DALI-2, Bi-Power, Zhaga interface up & down – ZD4i compliant
	Lateral (–15°* / –10° / –5° / 0°), Post top (0° / 5° / 10°* / 15°* / 20°)**

*Not all variants can reach 50 °C. Please contact us for more information.

**Without spigot end cap accessory only

GET IN TOUCH

www.thornlighting.com/contact



**5 YEAR
GUARANTEE**

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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