

OPTIO MICRO

Designed specifically for the residential street lighting market



www.trtlighting.co.uk/products/optio-micro





ORDERING FEATURES BECIFICATIONS

Designed with the real world in mind, the new Optio Micro lantern offers workable on-site solutions.

Our designers were led by how this lantern and its features could be used in situ and what benefits it could bring.

Optio Micro has been created to provide for multiple stakeholders with easy fit shields to address light spill, and multiple CCTs to suit the requirements of ecologists and ecologically sensitive areas.

Discover more in each of our sections

DISCOVER MORE.



08^{110 MICAO}

FEATURES

This range of residential street lighting LED lanterns provides a long-term installation with **tool free access** and **easy gear and light engine replacement** combined with **ultimate upgradability.**

RECIFICATION

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Designed specifically for residential street lighting applications, the Optio Micro LED lantern has been developed by TRT to not only embrace the latest technologies available but to also take into consideration the feedback and input from our valued and knowledgeable customers.

With unrivalled levels of flexibility, adaptability and choice, the Optio Micro provides effective and efficient solutions for installation today, whilst also considering the circular economy of the future.

WHAT IS OPTIO MICRO?





CMS ready simply connect with a 7 pin NEMA socket

SPECIFICATION

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Staying Connected

FEATURES

OPTIO MICAO

Easily replaceable LED module and control gear along with the capability for on-site power output adjustment (see PowerSet feature).



OPTIO MICAO

PowerSet

An innovative power selection module that provides the end user with the flexibility to easily adjust power and lumen output whilst the luminaire is installed or in the depot. The PowerSet feature allows for reduced stock holding and each module is specifically designed for all luminaires provided by TRT Lighting.

RECIFICATION.

ORDERING

Optio Micro PowerSet Settings

FEATURES

Standard	CLO			
10W	10W			
14W	14W			
19W	19W			
23W	22W			
27W	26W			
35W	34W			
42W	41W			

OPTIO MICAO



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RECIFICATION

Upgradeable Light Engine

FEATURES

With minimal future costs, the lantern is designed so that upgrades can be achieved quickly and cost effectively.

> 1. Release concealed latch with a flat bladed screwdriver

PRODUCT FEATURES

2. Lever open with finger

PTIO MICR

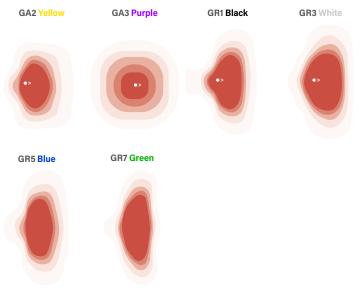


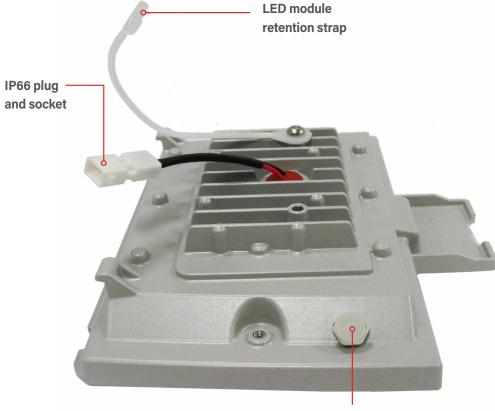
Interchangeable LED Modules

The Optio Micro LED module is available with flat glass or exposed lenses, up to 6 different optical distributions and a choice of PC-Amber, 2200K, 2700K, 3000K or 4000K colour temperatures. Easily identifiable using coloured identifiers.

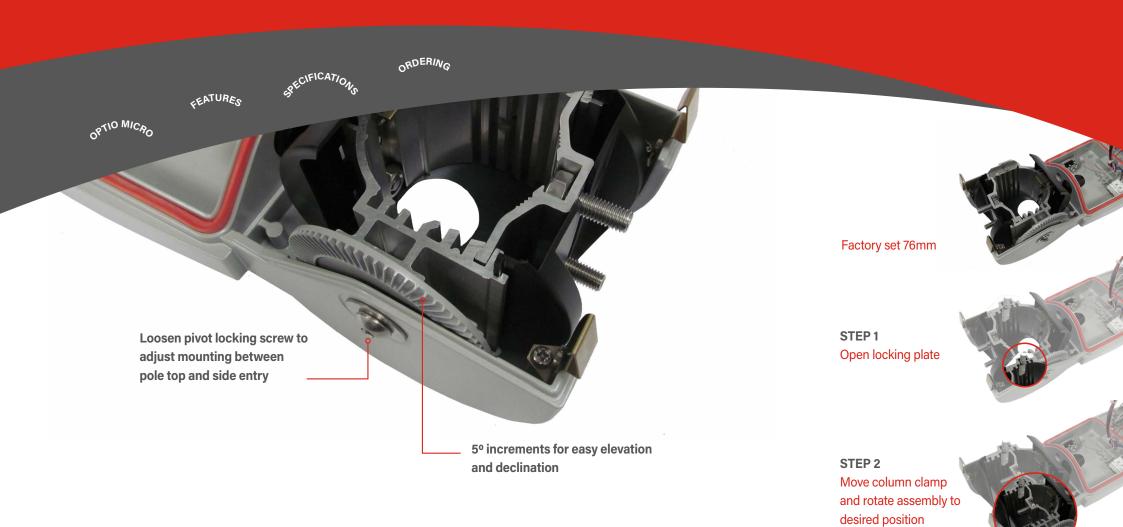
ORDERING

Optio Micro 16 Photometry Footprints





Built-in pressure equalisation (glass only)



MountSet (Patent Granted)

Enables the Optio Micro to be mounted onto a wide array of column and bracket sizes without the need for additional reducers or inserts. The dual combination of a stainless steel grub screw and nut means that the lantern will be easily removable from the installation at the end of its useful life.

STEP 3 Close locking plate

ORTIO MICRO

Summary & Benefits

FEATURES

Circular economy design – designed to be maintained - all key components can be easily replaced with maximum component re-use - the "most circular economy ready" lantern we are aware of.

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Future 'ready' – with the option of Zhaga Book 18 (SR) sockets, top and bottom. Simple upgrade options with minimal future costs - the lantern is designed so that upgrades can be achieved quickly and cost effectively (gear and LEDs) – with the addition of options for onsite power adjustment of gear and LED output.

Adjustability – allowing installations to be optimised and operatives to carry out varied lantern replacements if needed with lanterns they carry – especially with the variety of mounting options available.

Compact & lightweight – discrete and unobtrusive to the 'street-scape' - smaller in size to suit existing column and bracket infrastructure.

Clarity of communication – which lenses are in use can easily be checked by colour coding; this relates to the names of photometric files for ease of relating designs to installations.

Recyclable – the luminaires castings are manufactured from LM6 aluminium and 1000 hours salt spray compliant. The Optio Micro has also been extensively mechanically and electrically tested to ensure that it is built to last.

Minimised stock holding – due to the lantern's flexibility stock holding becomes more agile and practical which reduces the administration and deliveries required by ordering in per design.



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SPECIFICATION

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Suppliers of the 1st Dark Sky Community (Wales & Mainland England).

FEATURES

TRT are proud to have supplied thousands of Optio Micro street lighting products for the first Dark Sky Community in Wales & Mainland England.

The historic Radnorshire towns of Presteigne and Norton are now officially certified by DarkSky as the newest Dark Sky Community in the UK.

PRODUCT FEATURES



Certified by DarkSky.org

TRT is committed to reducing obtrusive light and light trespass in order to protect the night sky from light pollution.

The preservation of the dark sky is critical not only for the well-being of people and wildlife, but also for scientific and astronomical purposes.

The Optio Micro is compliant when using a colour temperature of 3000K or below at 0° tilt as this results in zero upward light.



OPTIO MICRO

ELECTRICAL CHARACTERISTICS	
System Power	

System Power	10-42W
LED CCT	PC-Amber*, 2200K, 2700K, 3000K & 4000K
LED CRI	>70 (*>55)
Lumen Output	Up to 6,290Im
Lumen Maintenance	Projected L90 after 100,000 hours
Drive Current	150-835mA
Driver Output	Constant current output with AM dimming
Power Factor (Full Load/Half Load)	0.95/0.90
Operational Voltage	220-240VAC rms
Operating Frequency	50/60Hz
Inrush Current (Apk/50%-µS)	53A/200µS
Running Current	208mA
Surge Protection (COM/DIF)	8kV/6kV
Additional Surge Protection (on request)	10kV/10kA
Lighting Controls Options	NEMA 3, 7, Miniature Photocell, Zhaga Book 18 (SR) Socket (top & bottom), PND and CMS compatible
Dimming Protocols	DALI



TECHNICAL SPECIFICATIONS

GRTIO MICAO

OPTIO MICRO

MECHANICAL CHARACTERISTICS				
Housing Material	High quality high pressure die cast LM6 aluminium			
Housing Finish	Chromate free pre-treatment, polyester powder coat, light grey (RAL9006), dark grey (RAL7022) black (RAL9005) or bespoke colours on request			
Cover Material	Toughened flat safety glass			
Lens Material	РММА			
Ingress Protection Rating	IP66			
Weight	5.5kg			
Wind Area	0.05m ²			
Impact Resistance Rating	IK08			
Mounting Methods	Post top 60mm or 76mm Side entry 34mm, 42mm, 60mm or 76mm			
Mounting Inclination	-10°, -5°, 0°, 5°, 10°			
Photometric Centre	312mm (to centre of PCB)			

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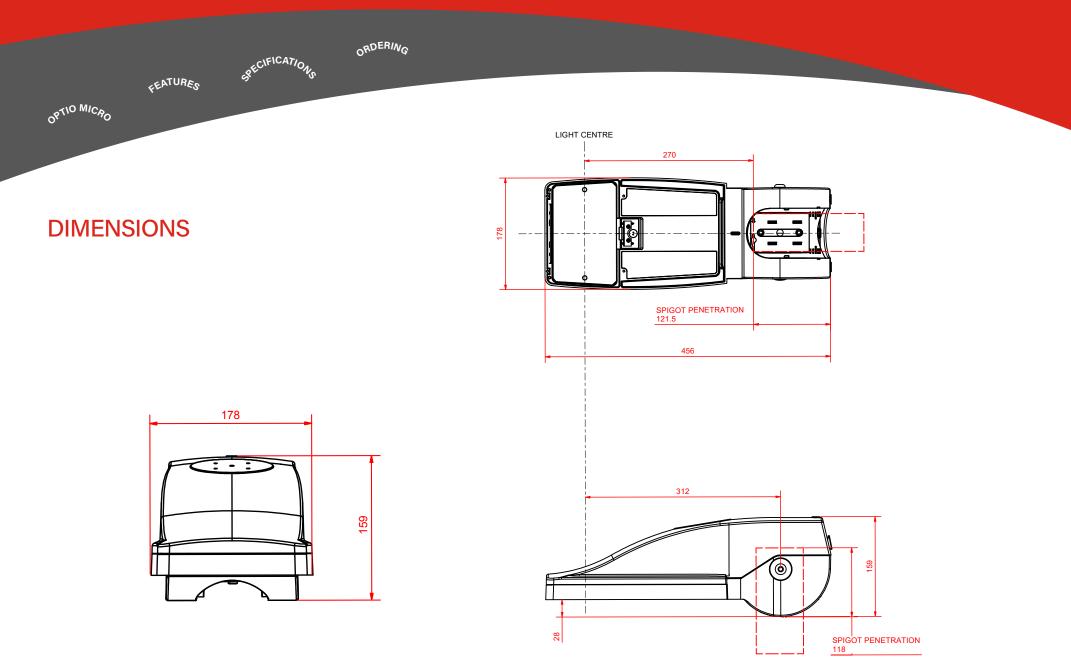
SHIELD OPTIONS

Universal Front/Rear	83BAF72019
Universal Side	83BAF72020

TECHNICAL SPECIFICATIONS



TECHNICAL SPECIFICATION



ORDERING CODES FOR OPTIO MICRO

Paint Colour

в

LED Temp

4K

OPM16 Standard Optio Micro 16 LED	10 up to 42 (in 1w steps)						MC10 35/18 Minicell
OPM16P Optio Micro 16 LED with PowerSet	10 14 19 23 27 35 42	GA2 General Area 2 GA3 General Area 3	4К 4000К			PT60 Post Top 60mm PT76	NEM3 3 Pin NEMA Socket NEM7 7 Pin NEMA Socket XMARC1.5 Xm of Artic 1.5mm ² Cable XMARC2.5 Xm of Artic 2.5mm ² Cable
OPM16C Optio Micro 16 LED Constant Light Output (CLO)	10 up to 41 (in 1w steps)	GR1 General Road 1 GR3 General Road 3	3К 3000К 27К 2700К	LG Light Grey DG Dark Grey	G Glass	Post Top 76mm SE34 Side Entry 34mm SE42	NEM3/PC 3 Pin NEMA Socket with 35/18 NEMA Photocell NEM7/PC 7 Pin NEMA Socket with 35/18 NEMA Photocell
OPM16CP Optio Micro 16 LED Constant Light Output (CLO) & PowerSet	10 14 19 22 26 34 41	GR5 General Road 5 GR7 General Road 7 General Road 11	22K 2200K PCA PC-Amber	B Black		SE42 Side Entry 42mm SE60 Side Entry 60mm SE76 Side Entry 76mm	ZB18T SR Socket on Top with Sealing Cap ZB18B SR Socket on Bottom with Sealing Cap LS Left Shield RS Right Shield

Cover Type

G

Mounting

PT76

Step 4: Select CCT Step 5:

Select

Paint Colour

Step 6:

Select Cover Type

Step 7: Select

Mounting

Accessories

LS

Step 8:

Select Accessories

BS Black Shield

ORDERING FEATURES SPECIFICATIONS

Step 2:

Select Power

Level

Step 1: Select Product Variant

Example

Product

OPM16P

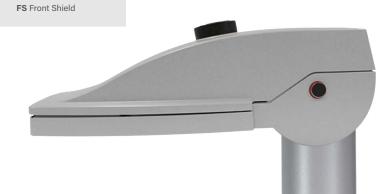
Power (W)

10

Distribution

GA2

Step 3: Select Distribution



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TRTLIGHTING

FEATURES

For more information

+44 (0) 1527 521 162 www.trtlighting.co.uk TRT Lighting evolved from Thorlux Lighting in 2012 as a specialist division of the FW Thorpe Group with a core focus on developing innovative lighting products for streets, roads and tunnels using only LED technology.

Culture of transparency – we provide clear, honest information designed to be useful so clients have a clear understanding of what can be expected from the product and the company.

Sustainability – we are a CO₂ neutral supplier with strong roots in British manufacturing dating back to 1936.

Locally supported – we manufacture our luminaires in Redditch, Worcestershire and are proud members of the official Made in Britain campaign and their Green Growth programme.

WORKING WITH TRT

INNOVATE INTEGRATE ILLUMINATE







