



Designed specifically for the residential street lighting market





INNOVATE | INTEGRATE | ILLUMINATE

Discover more

What is Optio Micro

TRT are proud to introduce the latest innovation in our product range.

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



Product Feat Technical Specif MADE IN BRITAIN

What is Optio Micro?

The latest in our range of Residential Street Lighting LED lanterns; providing a long-term installation with **tool free access** and **easy gear and light engine replacement** combined with **ultimate upgradability.**

What is Opt

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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.

Product features >



Staying Connected

CMS Ready

simply connect with a

7 pin NEMA socket

Upgradeable Light Engine > Interchangeable LED Modules > MountSet > PowerSet > Summary & Benefits >

Easy upgrading of both gear & LEDs and options for the onsite power adjustment of gear and LED output.

Future Proof with the latest Zhaga Book 18 4 pin socket (top and bottom)



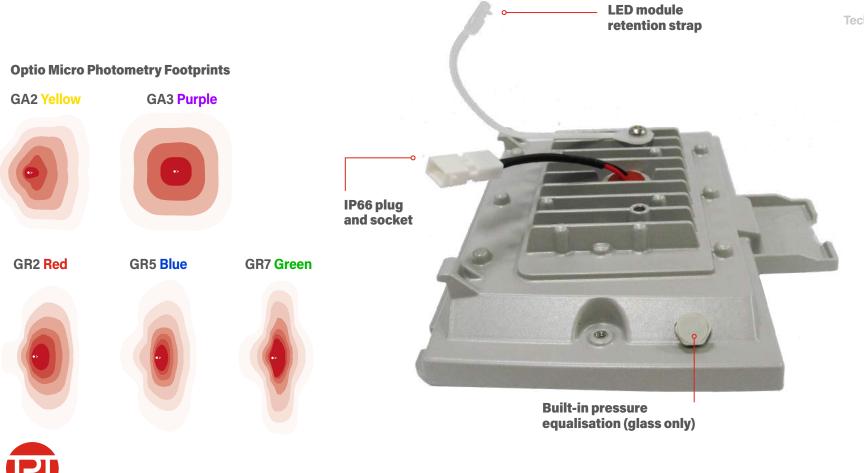


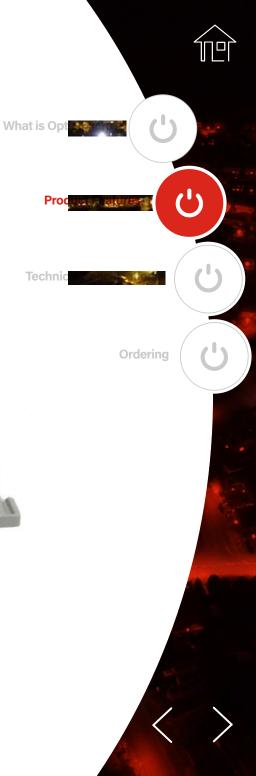


Interchangeable LED Modules

Staying Connected > Upgradeable Light Engine > MountSet > PowerSet > Summary & Benefits >

The Optio Micro LED module is available with flat glass or exposed lenses, each with 5 different optical distributions and a choice of 70CRI 3000K or 4000K. Easily identifiable using coloured identifiers





MountSet (Patent Pending)

Staying Connected > Upgradeable Light Engine > Interchangeable LED Modules > PowerSet > Summary & Benefits >

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.

Factory Set 76mm

STEP1 Open locking plate

STEP 2 Move column clamp and rotate assembly to desired position

STEP 3

Close locking plate

Loosen pivot locking screw to adjust mounting between pole top and side entry



5° increments for easy elevation and declination

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What is Opt

PowerSet

Staying Connected > Upgradeable Light Engine > MountSet > Interchangeable LED Modules > Summary & Benefits >

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.



Optio Micro PowerSet Settings

Standard	CLO		
10W	10W		
14W	13W		
19W	18W		
23W	22W		
27W	26W		
35W	33W		
42W	40W		

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Summary & Benefits

Staying Connected > Upgradeable Light Engine > MountSet > Interchangeable LED Modules >

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.

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.



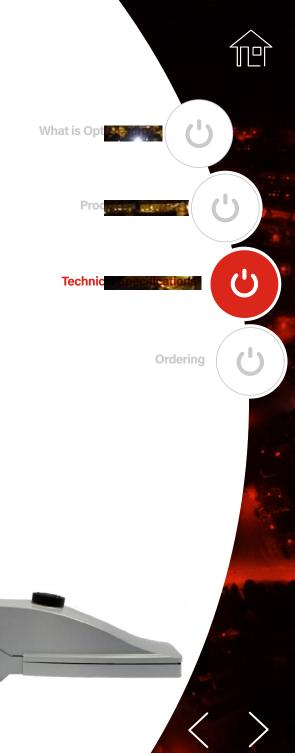


Technical Specifications

Mechanical Characteristics > Shields options> Dimensions >

Electrical Characteristics

System Power	10 - 42W				
LED CCT	3000K or 4000K				
LED CRI	>70				
Lumen Output	Up to 5553lm				
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	220-240VACrms				
Operating Frequency	50/60Hz				
Inrush Current (Apk/50%-µS)	53A/200 µS				
Running Current	0.208A max				
Surge Protection (COM/DIF)	8kV/6kV				
Additional Surge Protection (on request)	10kV/10kA				
Lighting Controls Options	NEMA 3 or 7 PIN NEMA Socket, Miniature Photocell and Zhaga Book 18 (SR) Socket (Top and Bottom)				
Dimming Protocols	DALI				





Technical Specifications.

Electrical Characteristics > Dimensions >

Mechanical Characteristics

Housing Material	High pressure die cast LM6 aluminium			
Housing Finish	Chromate free pre-treatment, Polyester powder coat, Light Grey (RAL9006), Black (RAL9005), Dark Grey (RAL7022)			
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 center of PCB)			

What is Opt

Shields Options

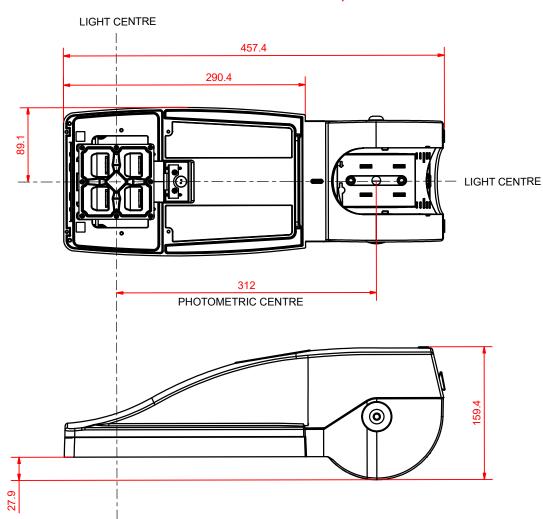
Universal Front/Rear	83BAF72019
Universal Side	83BAF72020

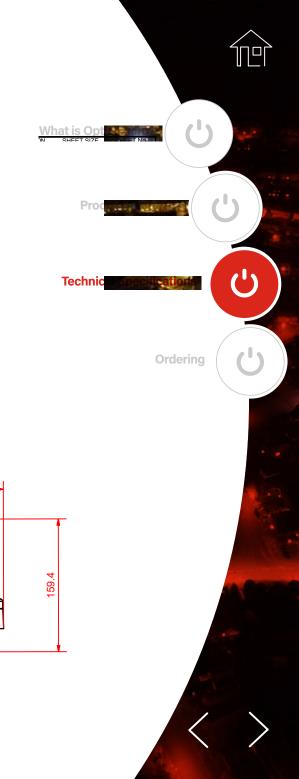


Technical Specifications.

Dimensions

Electrical Characteristics > Mechanical Characteristics > Shields options>





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Ordering.

Step 3: Step 1: Step2: Step 4: Step 5: Step6: Step 7: Step 8: Select Product Select Select Distribution Select Select Select Cover Select Pivot Select Accessories CCT Paint Colour Variant Power Type Prod CLASS CLASS Level **MC10** OPM4 (35/18 Minicell) (Standard Optio NEM3 Micro 4 LED) **Technic** 1000 (3 Pin NEMA Socket) 10 NEM7 14 (7 Pin NEMA Socket) OPM4P 19 XMARC1.5 (Optio Micro 4 LED GR2 23 (Xm of Arctic 1.5mm² Cable) Ordering with PowerSet) General Road 2 (Red) 27 XMARC2.5 (Xm of Arctic 2.5mm² Cable) 35 LG GR5 **NEM3C** 42 (Light Grey) **3K** G General Road 5 (Blue) (3 Pin NEMA Socket with (Flat Glass) (3000K) 35/18 NEMA Photocell) UNI DG OPM4C GR7 NEM7C (Universal) (Dark Grey) E General Road 7 (Green) **4K** (Optio Micro 4 LED (7 Pin NEMA Socket with (Exposed (4000K) with Constant Light 35/18 NEMA Photocell) Lens) В Output (CLO)) GA2 **ZB18T** (Black) General Area 2 (Yellow) (SR Socket on top with 10 sealing cap) 13 GA3 **ZB18B** General Area 3 (Purple) 18 OPM4PC (SR Socket on bottom 22 (Optio Micro 4 LED with sealing cap) with PowerSet & 26 LS (Left Shield) Constant Light **RS** (Right Shield) 33 Output (CLO)) FS (Front Shield) 40 **BS** (Back Shield)

Example

Product	Power (W)	Distribution	LED Temp	Paint Colour	Cover Type	Pivot	Accessories
OPM4	10	GR2	4K	LG	G	UNI	MC10, 7MARC1.5

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What is Opt



Working with TRT

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 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 CO_2 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.

For more information

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