

OPTIO NANO

Designed specifically for the residential street lighting market and suitable for Dark Sky applications





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

Designed with the real world in mind, the new Optio Nano 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 Nano 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.

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

Adding further choice into our Optio family of streetlights, the new Optio Nano, with a **replaceable light engine**, is **easily serviceable** and provides a **long term installation**.

This LED lantern has been developed to embrace technology and deliver maximum performance to P Class roads. Special consideration has been given to both capital cost and energy efficiency, the combination of this focus has resulted in the **most cost effective streetlight** from TRT to date.

Using the 'patent granted' MountSet mounting mechanism provides installers with the most universal mounting system available, catering for all types of new and existing column and bracket types. The highly successful PowerSet feature, available across all TRT products, also provides the Optio Nano with unrivalled flexibility in terms of onsite adjustability and adaption.

With a vast LED colour temperature range, a choice of optics and the ability to incorporate any method of control, the new Optio Nano caters for every residential road lighting scenario – a true one stop solution.

WHAT IS OPTIO NANO?





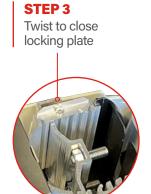
MountSet (patent granted)

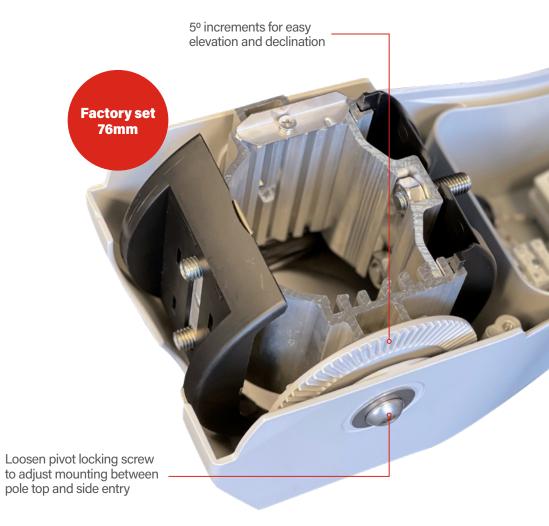
Enables the Optio Nano to be mounted onto a wide array of column and bracket sizes without the need for additional reducers or inserts. The dual combination of a stainless steel grub screw and nut means that the lantern will be easily removable from the installation at the end of its useful life.

STEP 2

STEP 1 Twist open the locking plate







PRODUCT FEATURES



Adjustment of column clamp being set to pole top position

View our video demonstration on mounting the lantern in post top position and side entry position.





PRODUCT FEATURES

ORDERING

FEATURES

OPTIO NANO



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 Nano **PowerSet** Settings

Standard	CLO
10W	10W
14W	14W
19W	19W
23W	22W
27W	26W
35W	34W
40W	39W

PRODUCT FEATURES





Summary & Benefits

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 - 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.

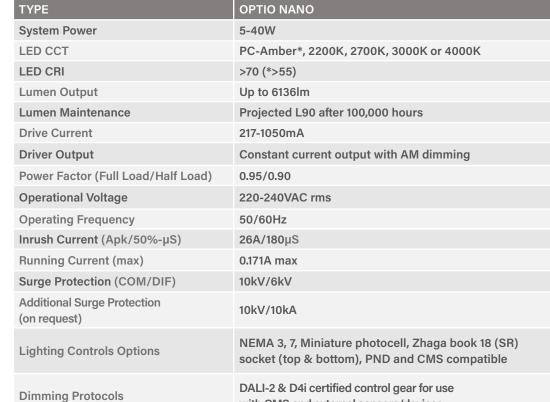
Clarity of communication – which lenses are in use can easily be checked by colour coding; this relates to the names of photometric files for ease of relating designs to installations.

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

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







with CMS and external sensors/devices

ELECTRICAL CHARACTERISTICS

TECHNICAL SPECIFICATIONS

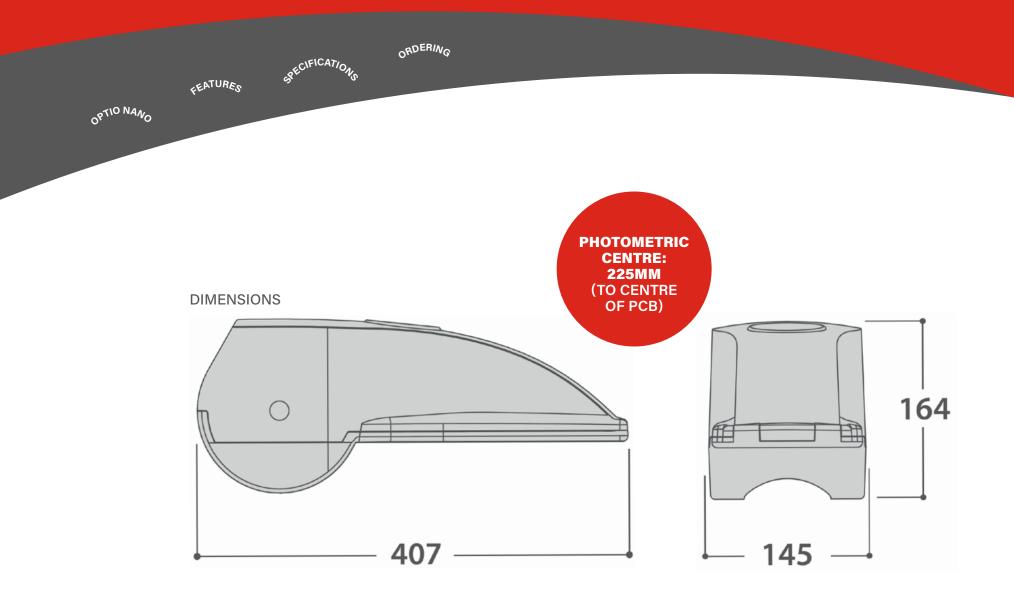




MECHANICAL CHARACTERISTICS							
ТҮРЕ	OPTIO NANO						
Housing Material	High quality high pressure die cast LM6 aluminium components						
Housing Finish	Chromate free pre-treatment, polyester powder coat, light grey (RAL9006), black (RAL9005), dark grey (RAL7022)						
Lens Material	PMMA						
Ingress Protection Rating	IP66						
Weight	4kg						
Wind Area	0.046m 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°						

SHIELD OPTIONS	
Universal Front/Rear	83SHD72365
Side	83SHD72366

TECHNICAL SPECIFICATIONS



TECHNICAL SPECIFICATIONS

FEATURES

OPTIO NANO

Step 1: Select Product Variant	Step 2: Generation	Step 3: Select Power Level	Step 4: Select Distribution	Step 5: Select CCT	Step 6: Select Paint Colour	Step 7: Communication Protocol ¹	Step 8: Controls ²	Step 9: Flying lead	Step 10: Breather Gland	Step 11: Part Night ³	Step 12: Part Night ⁴ step 2	Step 13: Part Night step 3	Step 14: Part Night step 4	Step 15: Override ⁵
OPN12 Standard Optio Nano 12 LED	1 = 1st	5 up to 40 (in 1 watt steps)	GA1 = General Area 1 GA2 =	General Area 1 GA2 = General Area 2 GA3 = General Area 3 GR1 = 4000K General AK = Lieneral AK = Lieneral AK = Lieneral AK = Lieneral	LG = Light Grey	D =	### Arctic 1.5mm² Cabl 5A1 = 5m of 3-Cor Arctic 1.5mm² Cable 35/18 Minicell 6A1 = 6m of 3-Cor Arctic 1.5mm² Cable Cable		9			5000 = eg: In	7506 = eg: ln	OV1 =
OPN12P Optio Nano 12 LED with PowerSet		10 14 19 23 27 35 40	General Area 2 GA3 = General Area 3 GR1 = General Road 1					6A1 = 6m of 3-Core Arctic 1.5mm² Cable 7A1 = 7m of 3-Core Arctic 1.5mm²						
OPN12C Optio Nano 12 LED with Constant Light Output (CLO)	Release		GR2 = 27K = 2700K Road 2	DG = Dark Grey K B = Black	DALI driver N = Non-DALI driver S = D4i driver	socket ZT = Zhaga book 18 socket, top with cap ZB = Zhaga book 18 socket, bottom with cap		breather part night valve dimming		from 20:00	sten 2. dim	addition to Part Night step 3, dim to 75% until 06:00	Dim On OV2 = Override	
OPN12PC Optio Nano 12 LED with PowerSet & Constant Light Output (CLO)	10 14 19 22 26 34 39	Road 4 GR5 = General Road 5 GR7 = General Road 7					Cable 10A1 = 10m of 3-Core Arctic 1.5mm² Cable 11A1 = 11m of 3-Core Arctic 1.5mm² Cable							

EXAMPLE OPN12

1. DALI driver can be combined with M10, N3, N7 | Non-DALI driver can be combined with M10, N3 | D4i driver must be combined with ZT or ZB

7A1

GD

- 2. N7 only available with DALI driver
- 3. Part Night available in up to 3 customisable settings, listed as Step 2 or Step 2+3 or Step 2+3+4 (Step 1 & 5 are fixed at 100% output)
- 4. Part Night is limited to Step 2 if selected with a non-DALI driver
- 5. Override available with M10, N3 or N7 only

GR1

















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