

Trion 100

TECHNOLOGY



Split & Seal

Uses protective polymers to shield Filix products from water and moisture, boosting durability and resilience.



Flow Sense

A built-in protector against power-related issues, ensuring lasting performance and safety



Heat Sense

Automatically reduces LED power at high temperatures, ensuring longevity and safety in Filix products.



Quick fit

Provides instant and secure wiring and connections housed in an IP66-rated enclosure for robust protection against dust and water.



Qualicoat Seaside Class Powder

Coat

Enhanced powder coating for aluminum, specifically formulated for superior durability and optimal performance in marine environments, lasting for over 10 years.



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Specification Sheet



UL STD 1598 (Pending)
IP66

LUMINAIRE FEATURES

Design and Application

- Pole-mounted projector
- For medium to large-scale facades and public spaces

Mechanical details

- IK08 crystal-clear tempered glass, 4 mm (0.15") thick
- IP66 protected against powerful water jets
- 3G vibration rating resistance (ANSI C136.32)
- Die-Cast aluminium body
- Double surface protected with anodised base layer and powder coat top layer in Qualicoat Seaside standard
- EPA (Effective Projected Area) 0.044
- Surface Installation

Electrical details

- LED Lifetime TM-21 @ 105°C
L80(24K) = 145,000 hours
- Operating temperature -20°C (-4°F) to +50°C (122°F)
- CRI >85
- 3 step MacAdam
- Remote power supply
- Low voltage operation
- Class III product

Controls

- DALI

Sustainability

- Recyclable material
- Repairable
- Dark Sky compliant

Integrated Systems

- Split & Seal
- Heat Sense
- Flow Sense
- Quick fit

Links & Downloads

- [Fixture installation manual](#)
- [CAD files](#)
- [IES-LTD data](#)



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ORDERING INFORMATION

☒	MODEL		☐	FINISH	
☒	TR10		☐	W	• W - RAL9003 Structure (Signal White)
☐	POWER		☐	S	• S - RAL7044 Structure (Silky Grey)
☐	L	• L - 20W, Amber/2700/3000, 2000 lm • L - 20W, TW (2200-4000K)	☐	A	• A - RAL7016 Structure (Antracite Grey)
☐	H	• H - 30W, Amber/2700/3000, 3000lm • H - 30W, TW (2200-4000K)	☐	B	• B - RAL9005 Structure (Jet Black)
☐	COLOR TEMP.		☐	D	• D - RAL 1015 Structure (Desert Sand)
☐	AM	• AM - Amber	☐	G	• G - RAL 6002 Structure (Leaf Green)
☐	27	• 27 - 2700K		INTERNAL LIGHT CONTROL	
☐	30	• 30 - 3000K	☐	0	• 0 - No internal light control
☐	T6	• T6 - Tunable white 2200K-4000K	☐	1	• 1 - Microlouvre
☐	OPTICS		☐	2	• 2 - Hex louvre
☐	SP	• SP - Narrow Spot (8°X8°)	☐	3	• 3 - Discrete sight
☐	MS	• MS - Medium Spot (15°X15°)	☐	4	• 4 - Half moon
☐	NF	• NF - Narrow Flood (30°x30°)	☐	5	• 5 - Honeymoon
☐	MF	• MF - Medium Flood (40°x40°)		EXTERNAL LIGHT CONTROL	
☐	WD	• WD - Wide (60°x60°)	☐	0	• 0 - No external light control
☐	SY	• SY - Spot Elliptical (10°x20°)	☐	1	• 1 - Snoot
☐	NY	• NY - Narrow Elliptical (10°x40°)		INSTALLATION TYPE	
☐	MY	• MY - Medium Elliptical (10°x60°).	☐	I	• I - Tria M Pole
☐	INPUT OPTIONS			CABLE LENGTH OPTION	
☐	24	• 24 - 24VDC	☐	QC	• QC - Standard Quick Connect Option
☐	CONTROL				
☐	D	• D - DALI Operation			

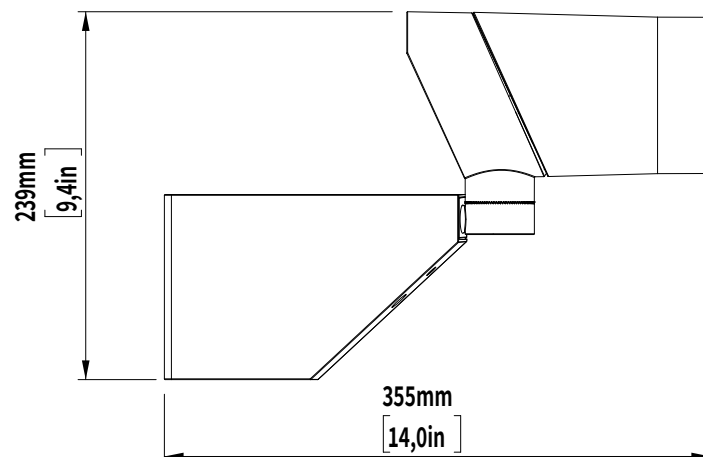
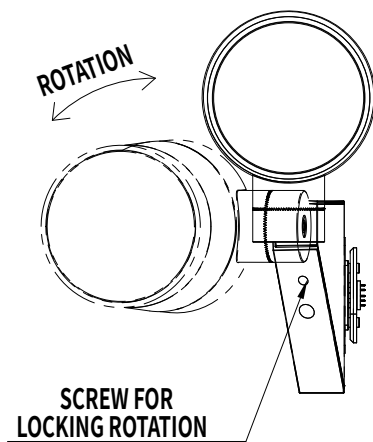
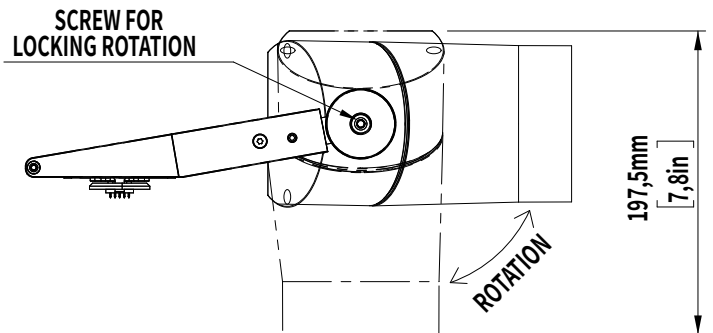


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INSTALLATION DETAILS

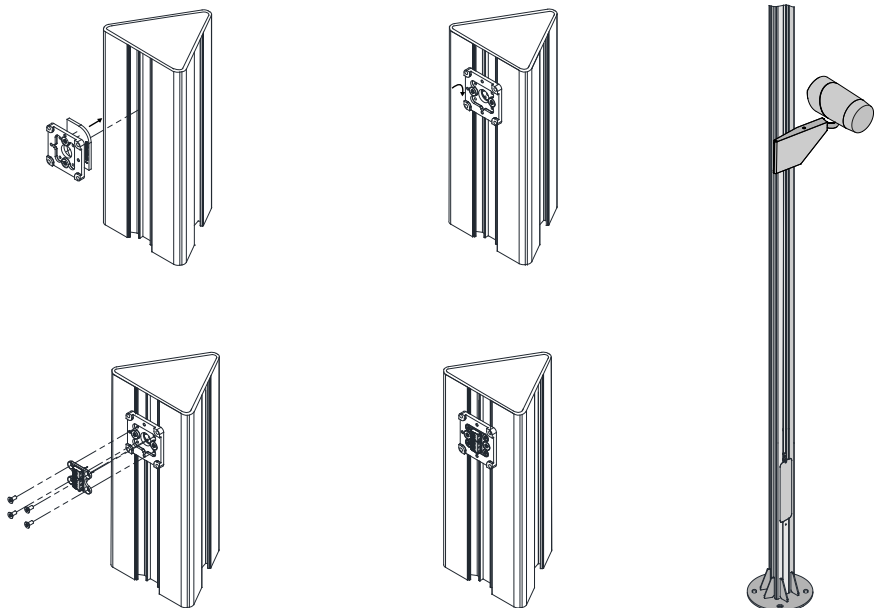
Fixture

Die-cast aluminium projector for façade, architectural, and landscape lighting, designed for harsh outdoor use with IK08 tempered glass, IP66 protection, and 3G vibration resistance. Double surface protection (anodised + Qualicoat Seaside) is combined with integrated Split & Seal, Heat Sense, Flow Sense, Quick Fit, and power protection to keep performance consistent over time. Remote power supply (Class III) with DALI control.



Quick Fit Installation

Designed for efficiency and flexibility, the system includes an IP66-rated instant wiring and connection method and is compatible with control protocols. Its streamlined installation process ensures quick deployment, while secure connections enhance reliability. The modular design makes it easy to expand with additional fixtures or adjust fixture positions as needed.



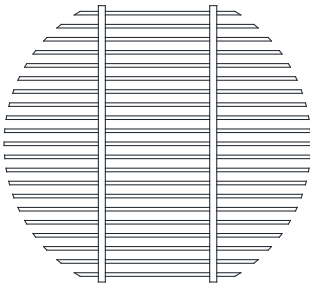


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INTERNAL LIGHT CONTROL

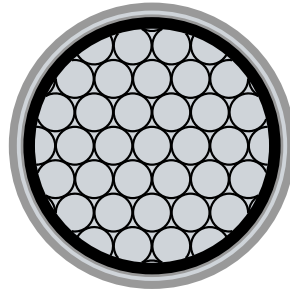
Microlouvre

Provides low glare control with 30% less lumen output than product without louvres. Best for use where pedestrians are at least 6m (20ft) from the light source.



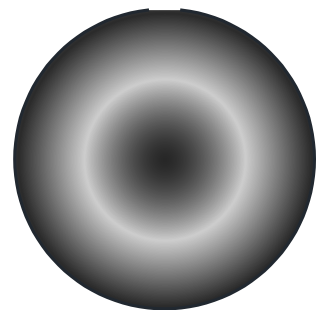
Hex louvre

Provides low glare control with 45% less lumen output than product without louvres. Best for use when there is no need for segment beam cut off such as in half moon.



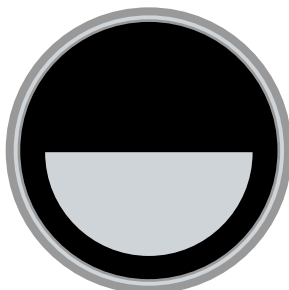
Discrete sight

Provides low glare control with 60% less lumen output than product without louvres. Best for use in high traffic areas where pedestrians are at least 0,5m (1,64ft) away from the source.



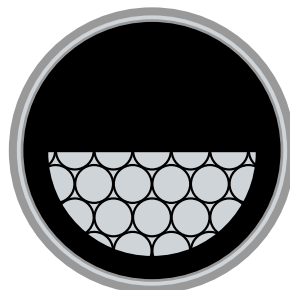
Halfmoon

Provides glare control by reducing lumen output and implementing a light beam cut-off, resulting in a 50% reduction in stray light and minimized light dispersion in undesirable directions.



Honeymoon

Combines the benefits of Hex Louvre and Halfmoon, offering both reduced glare and controlled light dispersion for comprehensive glare management.



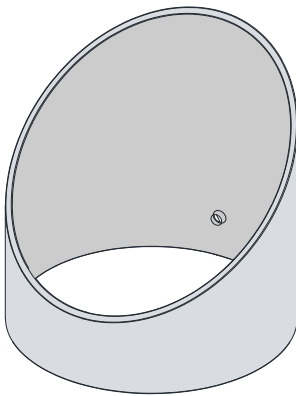


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EXTERNAL LIGHT CONTROL

Snoot

External attachment providing enhanced glare control, effectively shielding the light source to reduce direct glare and prevent light spill in unwanted directions.





Control

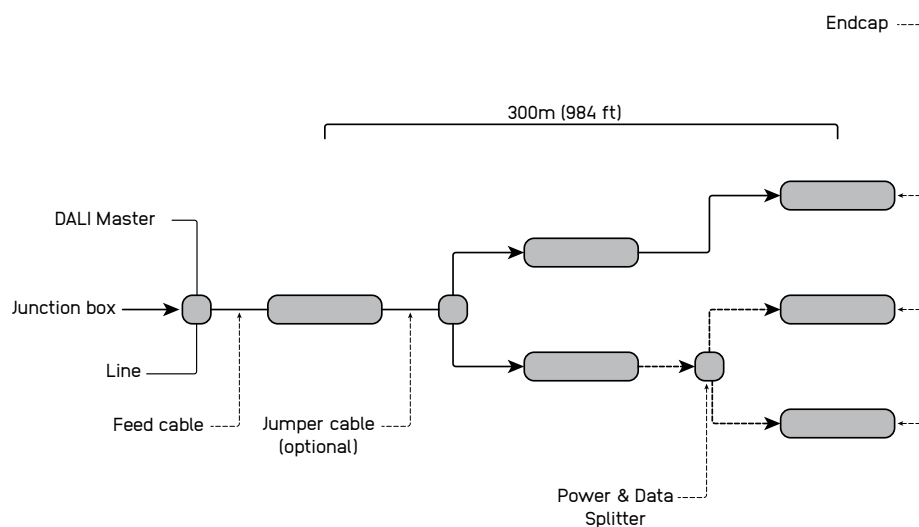
DALI SYSTEM TOPOLOGY

System components

- The DALI system, wiring, protective devices and junction boxes leading up to feed cable at the start of the line are the responsibility of others
- Feed cables and necessary accessories that are marked as mandatory must be ordered separately
- For optional branching of the system Power & Data Splitter must be used
- Advised protective components:
 - Surge protector device
 - Inrush current limiter

System topology

- In the system design, any of the following system topologies can be utilized: line wiring, star wiring, or tree wiring.



Addressing & dimming notes

- DALI protocol allows addressing devices individually
- Addressing methods include a short address for individual devices, group addresses for up to 16 groups, and a broadcast address that targets everything on the line.
- Logarithmic and linear dimming options available. the product is initially equipped with logarithmic dimming settings, while you can easily switch to logarithmic dimming using a configuration device.
- 0%-100% dimming range

Segment length and limitations

- The minimum segment length is equal to one product
- A DALI master has the capacity to manage a line containing a maximum of 64 devices. Each device can be allocated to 16 unique groups and 16 individual scenes.
- The maximum distance between two fittings is 30 meters [98ft] , and the maximum distance between the first and last fitting is 300m [984ft].
- Used in single colour and tunable white applications

Fault tolerance

- Due to its relatively slow operating speed and high bus voltage, the DALI system exhibits significant reliability in the presence of electrical interference, making shielding unnecessary
- If one product fails the rest of the system continues to work