FILIX LIGHTING USA INC

TECHNOLOGY

Data Pulse

Advanced control and power for precise dimming and efficient signal handling.

Data Whisper

Automates address assignment for DMX lighting in the Data Pulse network, ensuring easy setup and system reliability.

Color Shout

Enhances LED brightness and color saturation, efficiently managing power for fewer, high-quality luminaires.

X Line

Efficiently distributes power and data in lighting systems, simplifying installation and enhancing energy efficiency.

Split & Seal

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

Heat Sense

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

Step Up Hecto



ASHRAE/IEC 90.1 Compliant

Defines energy efficiency standards for building design, focusing on insulation, HVAC, and sustainable energy use.

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
IP67

LUMINAIRE FEATURES

Design and Application

- Infinity line recessed linear light
- Facade lighting
- Architectural lighting
- Landscpe applications

Mechanical details

- IK10 crystal-clear tempered glass, 10mm (0.39") thick
- IP67, rated for temporary submersion (30min) in water up to 1m
- Extruded aluminum body
- Drive-over rated for 1500 kg (3300 lbs)
- Double surface protected body with anodised base layer and powder coat top layer in Qualicoat Seaside standard
- Supplied with oil and water resistant cable and IP68 connector as a standard
- Recessed installation secured by A2 grade screws

Electrical details

- LED Lifetime TM-21 @ 105° CL80(24K)=145,000 hours
- Operating temperature -20°C (-28°F) to +50°C (122°F)
- LED CRI: >85
- 3 step MacAdam
- Safety Class II
- Integrated power supply modul

Sustainability

- Recayclable
- Repairable

Controls

- DMX (Data Pulse)
- DALI
- 0-10V

Integrated Systems:

- Data Whisper
- Colour Shout
- X Line
- Split & Seal
- Heat Sense
- Flow Sense

Links and Downloads

- Fixture installation manual
- Housing installation manual
- CAD files
- IES-LTD data

www.filixlighting-usa.com
info@filixlighting.com
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ORDERING INFORMATION

	MODEL	
●	FSC	
	LENGTH	
○	03	• 03 - 03m, (12,59")
○	06	• 06 - 06m (24,4")
○	06	• 09 - 09m (36,2")
○	12	• 12 - 12m (48")
	POWER	
○	L	• L - 16W/m - 1750lm/m - ASHRAE compliant
		• L - 16W/m - RGBW (W 3000K)
		• L - 16W/m - RGBA (A Amber)
		• L - 16W/m - TW (2200K-4000K)
○	H	• H - 39W/m - 4100lm/m
		• H - 39W/m - RGBW (W 3000K)
		• H - 39W/m - RGBA (A Amber)
		• H - 39W/m - TW (2200K-4000K)
	COLOR TEMP.	
○	AM	• AM - Amber
○	27	• 27 - 2700K
○	30	• 30 - 3000K
○	40	• 40 - 4000K
○	T6	• T6 - Tuneable white 2200K-4000K
○	M1	• M1 - RGBA (A Amber)
○	M4	• M4 - RGBW (W 3000K)
	OPTICS	
○	SP	• SP - Narrow Spot 8°x8°
○	MS	• MS - Medium Spot 15°x15°
○	NF	• NF - Narrow Flood 30°x30°
○	MF	• MF - Medium Flood 40°x40°
○	WD	• WD - Wide 60°x60°
○	SY	• SY - Spot Elliptical 10°x20°
○	NY	• NY - Narrow Elliptical 10°x40°
○	MY	• MY - Medium Elliptical 10°x60°

	VOLTAGE	
○	110	• 110 - 110-277VAC, 60Hz
○	230	• 230 - 220-240VAC, 50Hz
	CONTROL	
○	0	• 0 - ON-OFF operation
○	X	• X - DMX operation
○	D	• D - DALI operation
○	V	• V - 0-10V operation
	FINISH	
○	W	• W - RAL9003 Structure (Signal White)
○	S	• S - RAL7044 Structure (Silky Grey)
○	A	• A - RAL7016 Structure (Antracite Grey)
○	B	• B - RAL9005 Structure (Jet Black)
	INTERNAL LIGHT CONTROL	
○	0	• 0 - No internal light control
○	1	• 1 - Microlouvre
○	2	• 2 - Hex louvre
○	3	• 3 - Half Moon
○	4	• 4 - Honeymoon
	INSTALLATION TYPE	
○	E	• E - End to end installation
	CABLE LENGTH OPTIONS	
○	C	• C - luminaire length + 0.1m (0,32")
○	3	• 3 - with 3m (10') feed cable
○	6	• 6 - with 6m (20') feed cable
○	9	• 9 - with 9m (30') feed cable
○	20	• 20 - with 20m (65') feed cable

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MANDATORY ACCESSORIES

Feed Cables - art. FCUTL4P

LENGTHS	
1	• 1 - 1m feed cable
3	• 3 - 3m feed cable
6	• 6 - 6m feed cable
9	• 9 - 9m feed cable
15	• 15 - 15m feed cable
20	• 20 - 20m feed cable

End caps

END CAPS	
104964	• 104964 - End cap

Housing

HOUSING	
FCLIN324	• FCLIN324 - Linear installation housing 324mm (12.7”)
FCLIN624	• FCLIN624 - Linear installation housing 624mm (24.6”)
FCLIN924	• FCLIN924 - Linear Installation housing 924mm (36.4”)
FCLIN1224	• FCLIN1224 - Linear installation housing 1224mm (48.2)

Trim kit - art. SUCKT

FINISH	
W	• W - RAL9003 Structure (Signal White)
S	• S - RAL7044 Structure (Silky Grey)
A	• A - RAL7016 Structure (Antracite Grey)
B	• B - RAL9005 Structure (Jet Black)

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OPTIONAL ACCESSORIES

Jumper Cables - art. JCUTL4PC

LENGTHS	
1	• 1 - 1m jumper cable
3	• 3 - 3m jumper cable
6	• 6 - 6m jumper cable
9	• 9 - 9m jumper cable
15	• 15 - 15m jumper cable
20	• 20 - 20m jumper cable

Splitters - art. SUTL4P2W

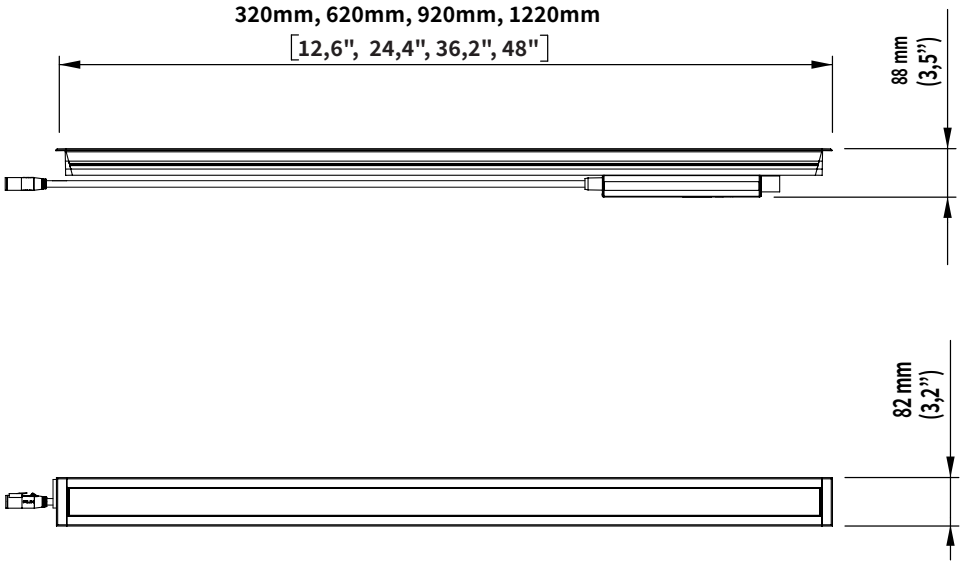
SPLITTERS	
P	• P - Power splitter
D	• D - Data splitter
PD	• PD - Power & Data splitter

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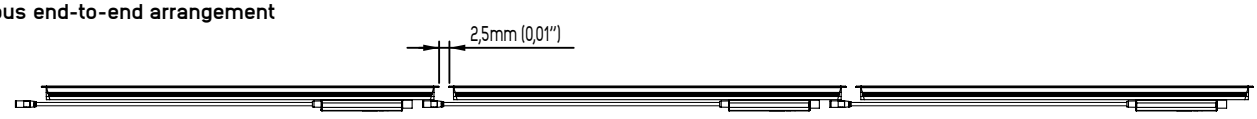
INSTALLATION DETAILS

Fixture



The standard luminaires are equipped with cables, facilitating seamless line connections with a 5mm [0.2"] gap to account for material expansion. In cases where the luminaires are not installed end-to-end for electrical connection, specialized jumpers are employed. More detailed information about these jumpers can be found in the cable accessories section.

Continuous end-to-end arrangement

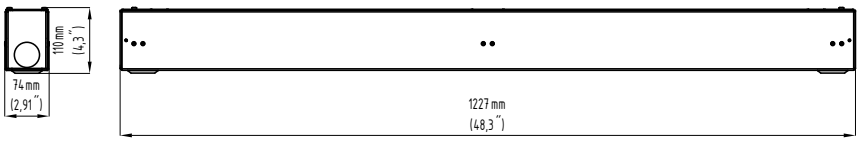


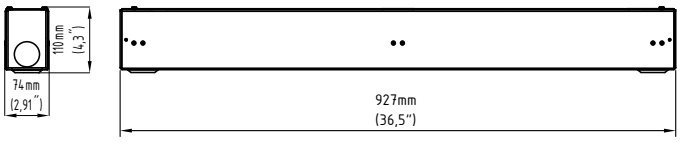
The length of the continuous end-to-end arrangement typically varies depending on the type of product in use and is generally influenced by the product's power requirements. You can find the specific maximum number of products that can be installed on a single fuse in the table located in the network topology section.

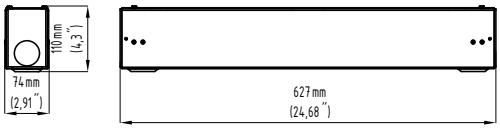
Step Up Hecto

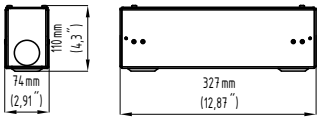
INSTALLATION DETAILS

Housing









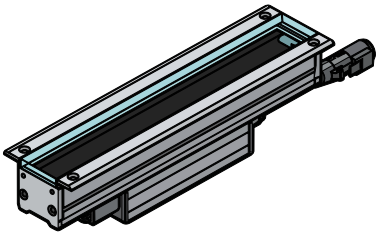
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LIGHT CONTROL

Internal light control accesories:

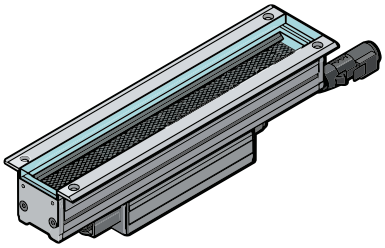
Microlouvre

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



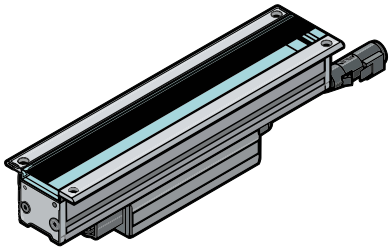
Hex louvre

Provides low glare control with 45% less lumen output than product without louvres. best for use in moderate traffic where pedestrians are at least 3m (10ft) from the light source



Half Moon

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

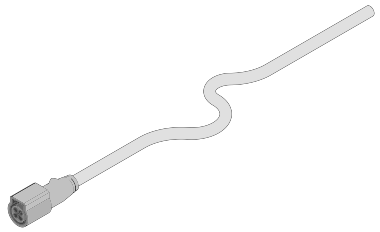


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MANDATORY ACCESSORIES

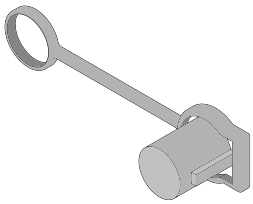
Feed cable

Length options 1m (3ft), 3m (10ft), 6m (20ft), 9m (30ft), 15m (50ft), 20m (65ft). The rugged rubber cables are versatile, with open wires for mains connection and a snap-in connector for fixture connection. They're rated IP68/IP69K and resistant to UV exposure, ideal for marine use. Note that feed cables are mandatory to order.



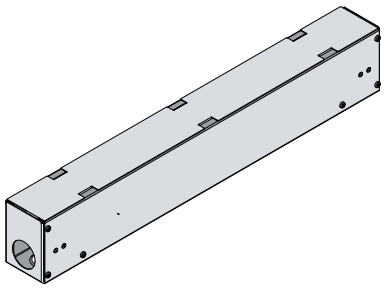
End cap

Endcap for receptacle, providing IP67 protection when securely locked. Required for all runs' terminations, excluding those under DMX (Data Pulse) control.



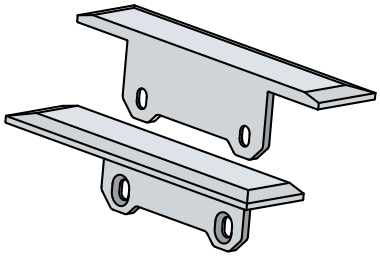
Metal Installation Housing

Used for installation of single luminaire. Manufactured from formed metal sheet, the housing provides high mechanical strength and structural rigidity. It is designed to support both single-unit installation and end-to-end configuration, allowing multiple housings to be connected in sequence. The housing includes multiple cable entry points and closed end sections to prevent concrete ingress during installation. Its internal space enables organized cable routing and management. A drainage knockout hole is provided to allow controlled water drainage when required.



Trim Kit

Aluminum trims with a powder-coated finish is employed to create a visually seamless product run from the start to the end of the line of light. The kit is ordered separately and mounted on the light fixture with stainless steel screws.

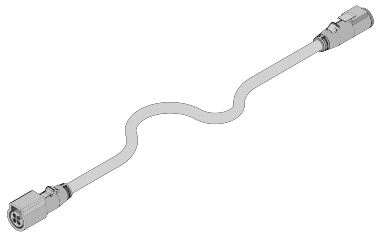


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OPTIONAL ACCESSORIES

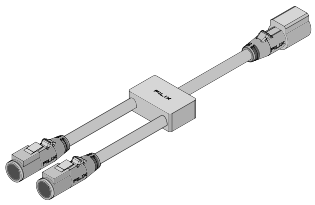
Jumper cable

Length options 1m (3ft), 3m (10ft), 6m (20ft), 9m (30ft), 15m (50ft), 20m (65ft.) Jumper cables, a necessity for non-end-to-end configurations, feature connectors on both ends for easy connection. Constructed with robust rubber material, they endure mechanical stress and harsh environments. Rated IP68/IP69K and resistant to UV exposure, they are ideal for marine applications.



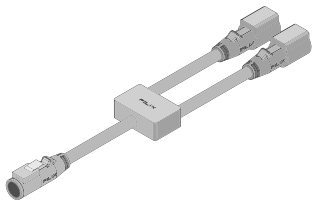
Data Splitter

A Data Splitter serves in DMX (Data Pulse) applications when there's untapped capacity on the fuse for additional fixtures. This device efficiently utilizes available resources by allowing one fuse to serve two separate DMX universes. By simplifying cabling and streamlining data flow, it optimizes lighting setup, making it more efficient and cost-effective.



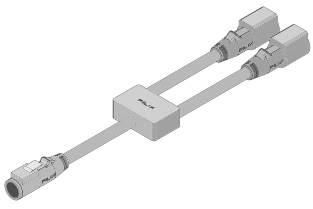
Power & Data Splitter

A Power & Data Splitter plays a crucial role in DALI, and 1-10V applications, especially when there's a requirement to establish "tree" or "star" connection topologies. This versatile splitter excels at efficiently distributing both power and data, enabling seamless branching out of your lighting system.



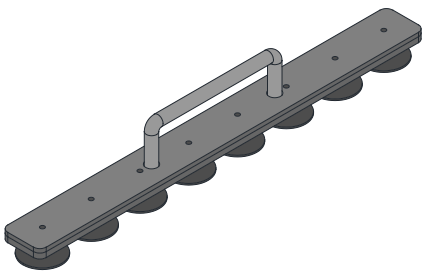
Power Splitter

A Power Splitteris crucial for handling ON/OFF applications, particularly when there's a requirement for branching connections in "tree" or "star" topologies. This splitter facilitates the effective distribution of power, guaranteeing a smooth expansion of your lighting network.



Removal tool

Equipped with a specialized suction mechanism, it securely adheres to glass surfaces, ensuring safe and precise lifting and handling operations. This tool is essential for various applications where a reliable and controlled grip is paramount, promoting efficiency and workplace safety.

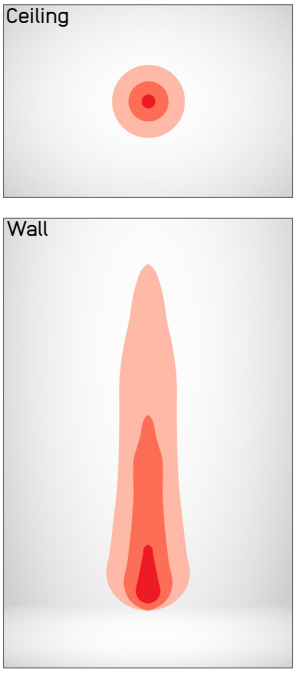


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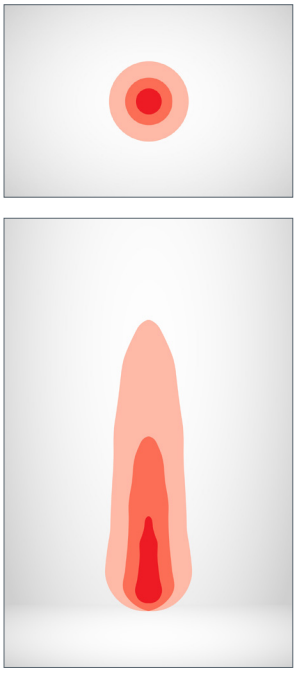
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OPTICS

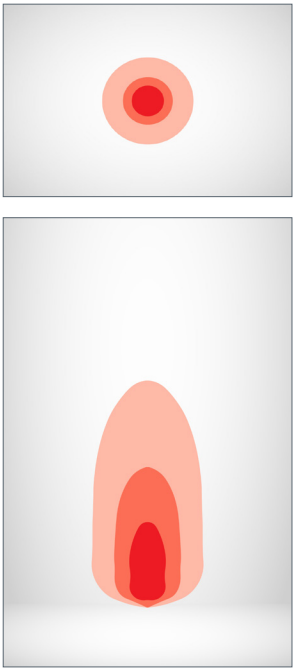
Narrow Spot
Angle: 8°x8°
Delivered lumen: 3700lm/m



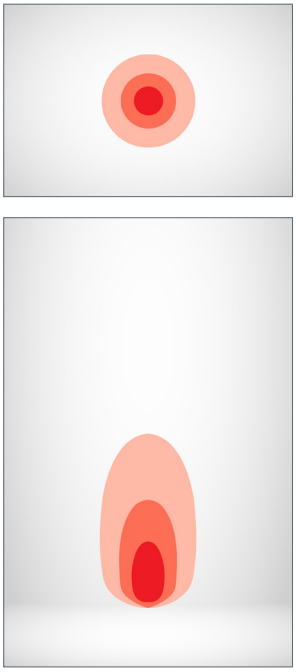
Medium Spot
Angle: 15°x15°
Delivered lumen: 3600lm/m



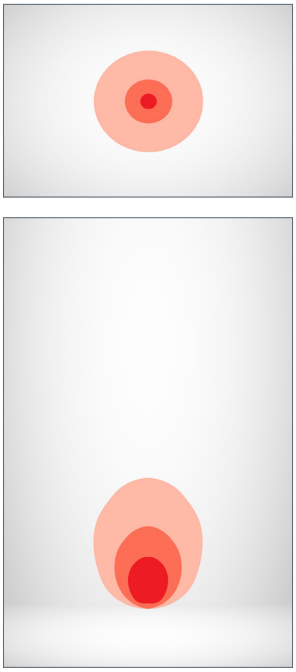
Narrow Flood
Angle: 30°x30°
Delivered lumen: 3370lm/m



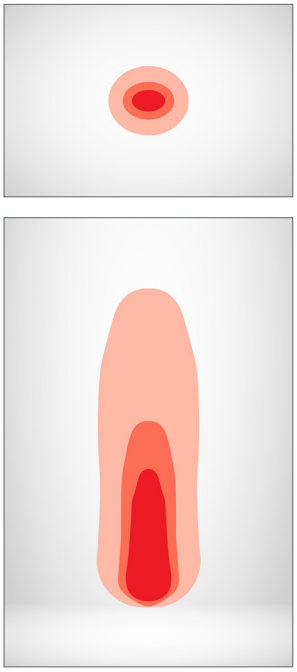
Medium Flood
Angle: 40°x40°
Delivered lumen: 3280lm/m



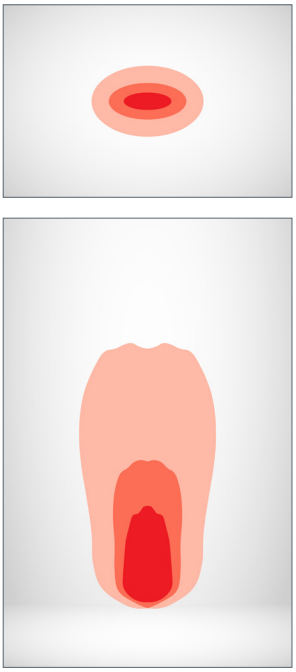
Wide
Angle: 60°x60°
Delivered lumen: 3050lm/m



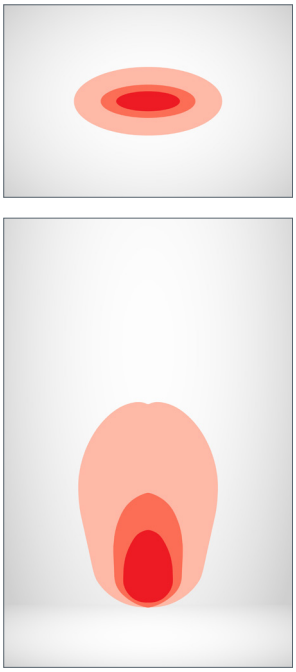
Spot Asymmetric
Angle: 10°x20°
Delivered lumen: 3550lm/m



Narrow Asymmetric
Angle: 10°x40°
Delivered lumen: 3450lm/m



Medium Asymmetric
Angle: 10°x60°
Delivered lumen: 3370lm/m



Notes

- Depending on the beam angle and power of the fixture, it has the capability to project light up to 100m (330ft)
- Light output values based on 39W/m and 3000K product

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Control

ON/OFF SYSTEM TOPOLOGY

Integrated systems:

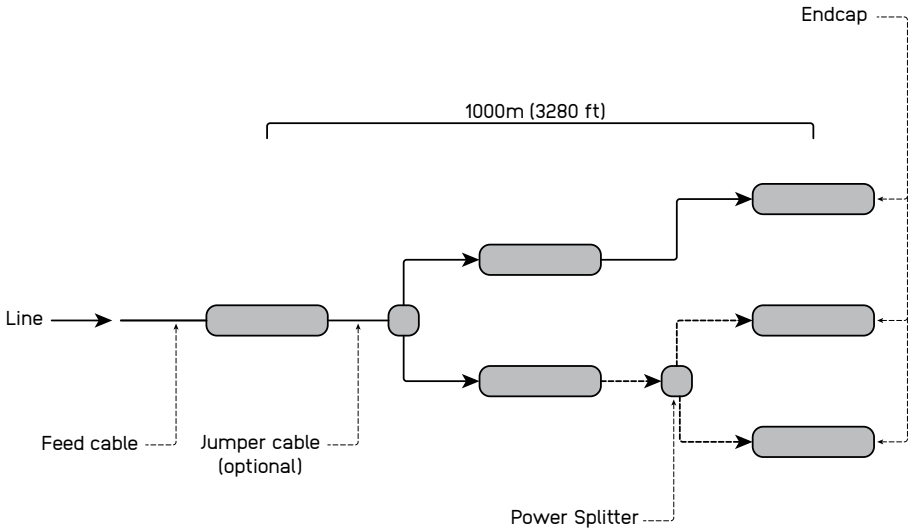
- X Line
- Heat Sense
- Split & Seal

System components

- 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 neccessarry accessories that are marked as mandatory must to be ordered separately
- For optional branching of the system Power 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

- ON/OFF system does not allow device addressing
- Dimming of the product not avaliable in this system

Segment length and limitations

- The minimum segment length is equal to one product
- The maximum distance between the first and last fitting is limited to maximum voltage drop and fuse rating.
- Used only in single colour applications

Fault tolerance

- If one product fails the rest of the system continues to work
- Class I wiring implemented in the fixture and voltage fluctuation filter implemented

Control

0-10V SYSTEM TOPOLOGY

Integrated systems:

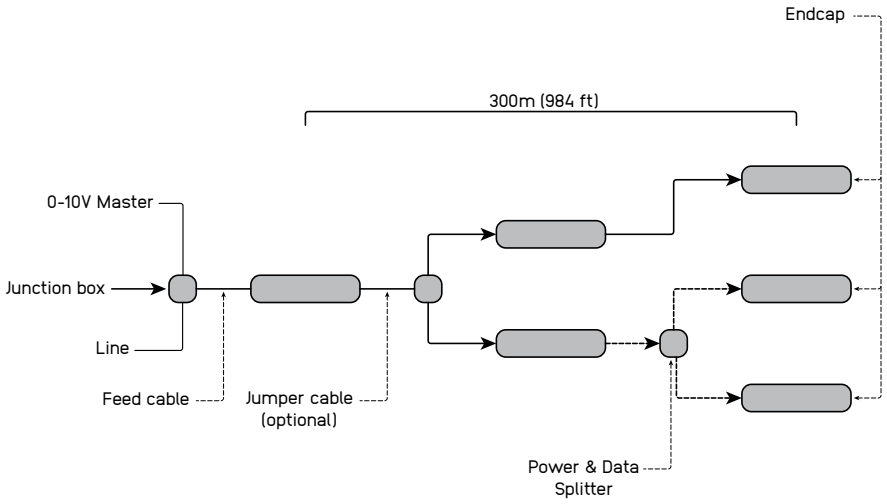
- X Line
- Heat Sense
- Split & Seal

System components

- The 0-10V 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 neccessarry accessories that are marked as mandatory must to 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

- 0-10V protocol does not allow addressing devices individually
- The product is initially equipped with linear dimming settings and it is suggested for the controlers to be logarithmic in order to get the dimming that is most preferred in most cases due to the dimming curve perceived by human eye
- 0%-100% dimming range
- The product is initally set up as a source instead of as a sink type
- The product could also be set up as a sink type but this should be noted to sales represenative

Segment length and limitations

- The minimum segment length is equal to one product
- 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 applications

Fault tolerance

- If the product is source type and in the case the control line doesn't have power the light fitting will turn at 100%. in the opposite case where the light is sink type, light will not work.
- If one product fails the rest of the system continues to work
- Class I wiring implemented in the fixture and voltage flxtuation filter implemented

Control

DALI SYSTEM TOPOLOGY

Integrated systems:

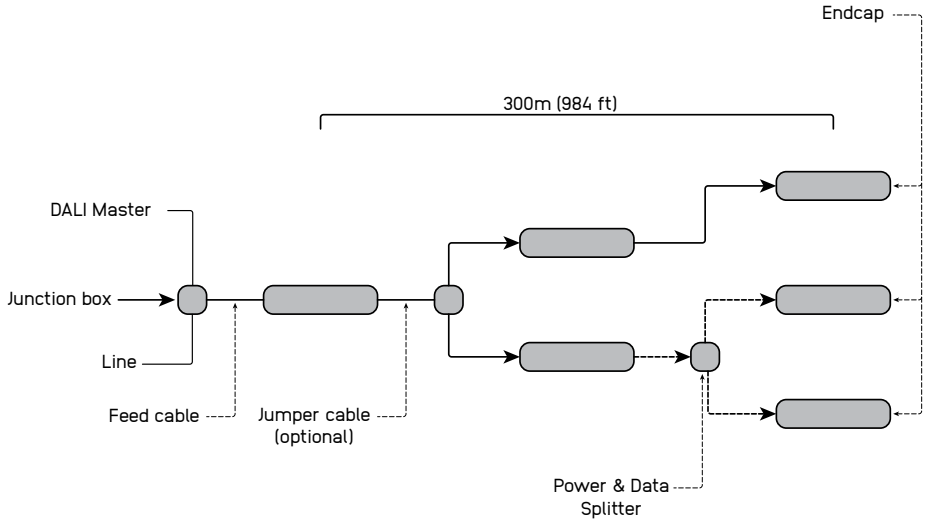
- X Line
- Heat Sense
- Split & Seal

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 neccessarry accessories that are marked as mandatory must to 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.
- Logharitmic and linear dimming options avaliable. the product is initially equipped with logarithmic dimming settings, while you can easily switch to logarithmic dimming using a configuration device.
- 0,4%-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

Control

DMX SYSTEM TOPOLOGY

Integrated systems:

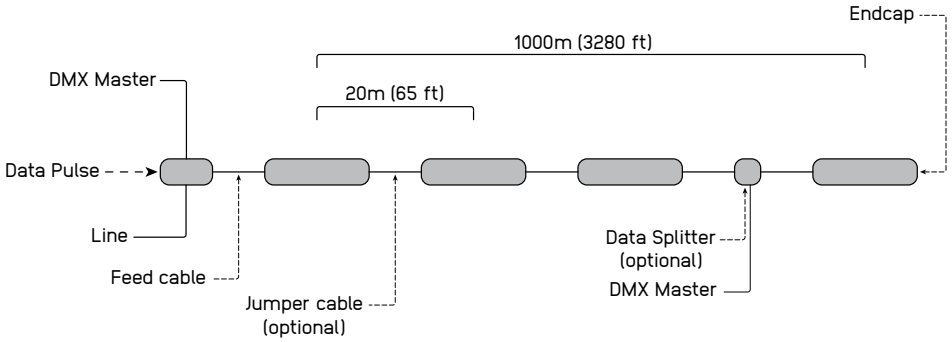
- Data Pulse: One unit for both power management and data control when utilizing the DMX protocol.
- Data Whisper
- X Line
- Colour Shout
- Heat Sense
- Split & Seal

System components

- The DMX system, wiring, protective devices and junction boxes leading up to Data Pulse at the start of the line are the responsibility of others
- Feed cables and neccessarry accessories are mandatory and must to be ordered separately
- For optional DMX address addition in the line, a data splitter must be used.
- Advised protective components:
  - Surge protector device
  - Inrush current limiter

System topology

- In the system design, line wirinig can only be used



Addressing & dimming notes

- DMX protocol allows addressing devices individually
- Addressing methods allow short address for individual devices
- Logharitmic and linear dimming options avaliable. 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

- A DMX univerese has the capacity to manage a line containing a maximum of 512 addresses. each device can be allocated to maximum 4 unique addresses of 30cm [1ft] length
- The maximum distance between two fittings is 20m (65ft), and the maximum distance between the first and last fitting is 1000m [3280ft).
- Used in single colour, tunable white, and RGBW applications
- DMX addresses can be programmed in factory or on site. Consult your sales representative if addressing is to be done in factory

Fault tolerance

- Due to Data Pulse technology, the DMX 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