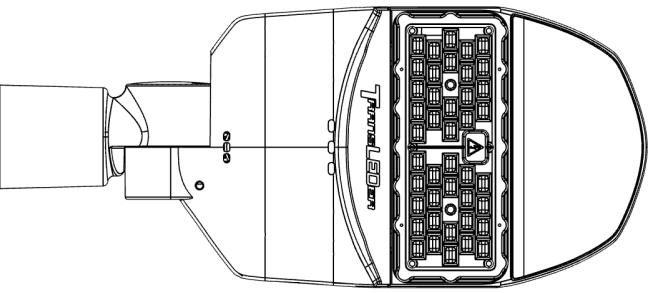
TL-A-B-V-DDD-EE-NW-D-SC-FM-GY

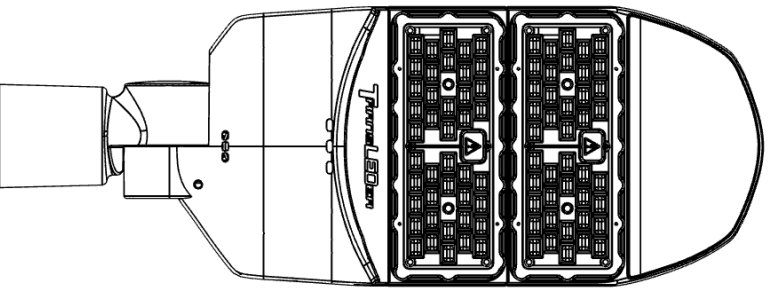
TL-B-B-V-DDD-EE-NW-D-SC-FM-GY

LED Roadway Lighting Luminaire

INSTALLATION GUIDE

Version 4





IK 10 | IP 66 | EN 62471 EXEMPT GROUP | RoHS Compliant | Di4™ | DALI 2® | DARKSKY APPROVED

IMPORTANT NOTICE

1. Safety Precautions
   - Always disconnect the power source before installation or maintenance to reduce the risk of electrical shock.
   - This luminaire should be installed according to local electrical regulations. If unsure, consult a professional electrician.

2. Installation and Mounting
   - This luminaire is specifically designed for outdoor applications.
   - The recommended mounting height is between 5 and 15 meters for optimal light distribution and coverage.
   - If removing the mounting bolts during servicing, thread them by hand before using power tools to prevent cross-threading or stripping.

3. Impact Protection (IK) and Ingress Protection (IP)
   - The luminaire is rated IK10 for impact protection against mechanical impacts. However, this rating does not extend to third-party components attached via the NEMA socket, such as Photocells, Shorting Caps, or Wireless Smart Controllers. Ensure proper mechanical impact protection by using a suitable device if necessary.
   - The luminaire is rated IP66 for ingress protection. This rating is valid only with an IP66-rated component attached via the NEMA socket, such as a Photocell, Shorting Cap, or Wireless Smart Controller. To maintain IP66 protection, ensure that any device connected is also IP66-rated; otherwise, ingress protection will be compromised.

4. Electrical Connections
   - The fixture does not include an integrated power cord for the primary power source connection. However, a 3-core rubber flex cable with a minimum gauge of 1.0 mm^2 is required to meet the power cord pull test requirements.
   - If a NEMA photo control is part of the installation, refer to the "NEMA Receptacles" section for guidance.

5. Component Replacement
   - Only the manufacturer, a service agent, or an authorised individual should replace electrical components, including the light source, driver, SPD, and other related parts.

PREPARE FOR INSTALLATION

The spigot, constructed from cast aluminium, is designed to securely attach to a pipe tenon or rigid conduit with an outer diameter between 30 mm and 62 mm.

The luminaire's tilt is secured by tightening two hex socket head bolts. For precise adjustment, incremental marks of 30° (-15° to +15°) are provided, allowing tilting in 5° increments.

ADJUST THE SPIGOT TILTING ANGLE.

The initial tilting angle is set at zero degrees. To adjust this, loosen the hex socket head bolt on the tilting panel and move the spigot along the tilt track to your desired position. Once adjusted, secure the position by tightening the bolt with a maximum torque of 12.0 Nm.

See Figure 1.

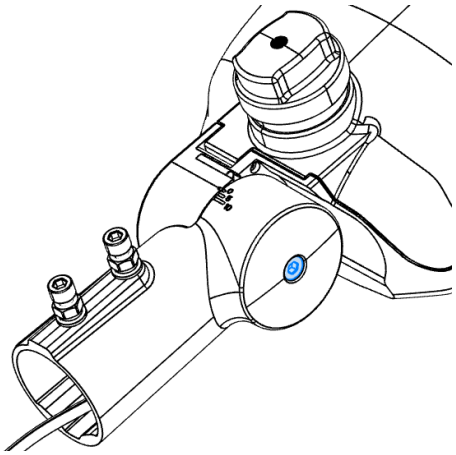


Figure 1

PREPARE THE SPIGOT

Unfasten the two hex socket head bolts and nuts connected to the spigot. Move the spigot to the desired position. Adjust the luminaire's position to facilitate the power connection.

See Figure 2.

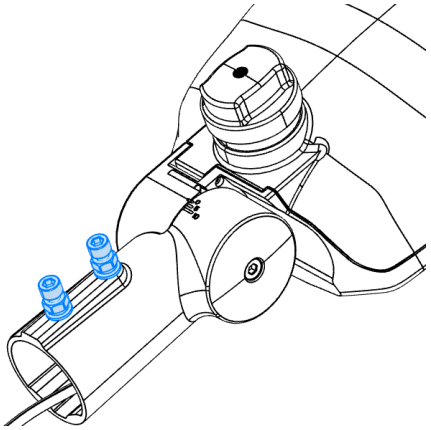


Figure 2

CONNECT THE LUMINAIRE

STEP 1:
Locate the locking screw on the lid at the back of the luminaire. Turn the screw anti-clockwise to unlock the lid.

Once the screw is entirely loosened, carefully lift the lid to access the Electronic Control Gear Chamber inside the luminaire.

See Figure 3.

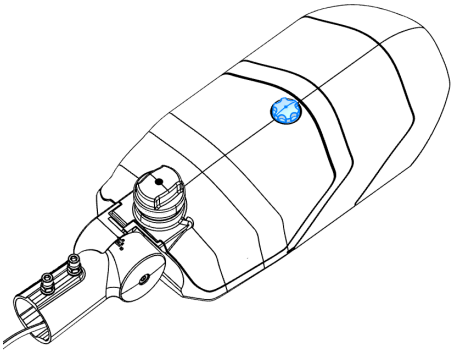


Figure 3

STEP 2:
Open the lid.

Inside the Electronic Control Gear Chamber, locate the terminal block (interconnected Female and Male Connector).

See Figure 4.

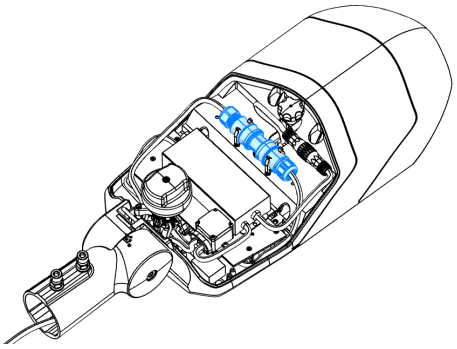


Figure 4

STEP 3:
Use an appropriate tool like a screwdriver to unlock and separate the Female and Male Connectors.

See Figure 5.

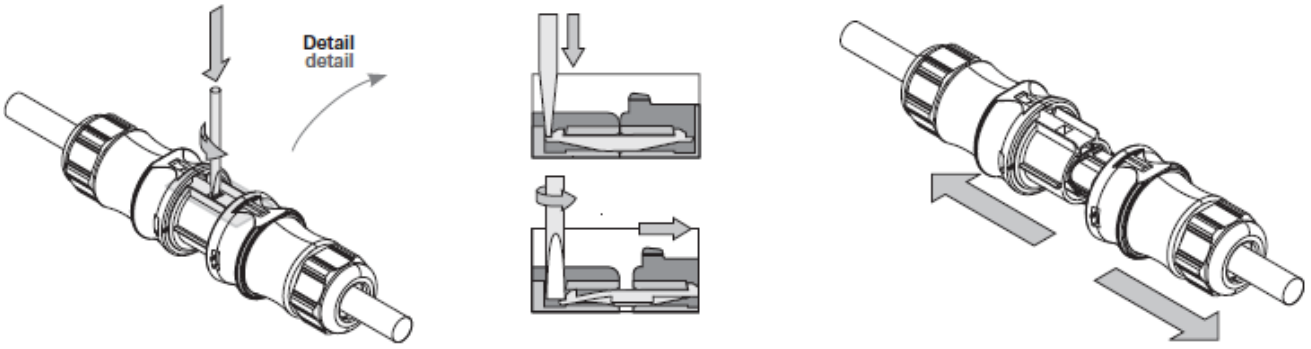


Figure 5

STEP 4:

Use an appropriate tool, such as a screwdriver, to detach the Female Connector Head from the main body and loosen the cord grip at the end of the main body.

See Figure 6.

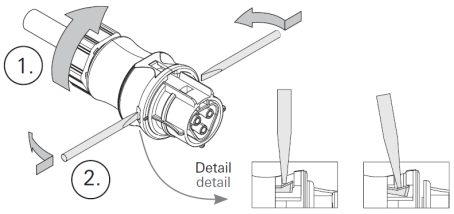


Figure 6

STEP 5:

Pull the Main Power Cord:

- Carefully pull the main power cord through the spigot entry, ensuring it is not pinched or damaged.

Guide Through the Strain Relief Device:

- Route the main power cord through the strain relief device, ensuring it is secure and provides adequate protection against strain or movement.

See Figure 7.

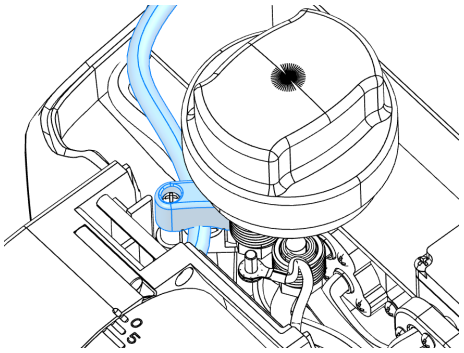


Figure 7

STEP 6:

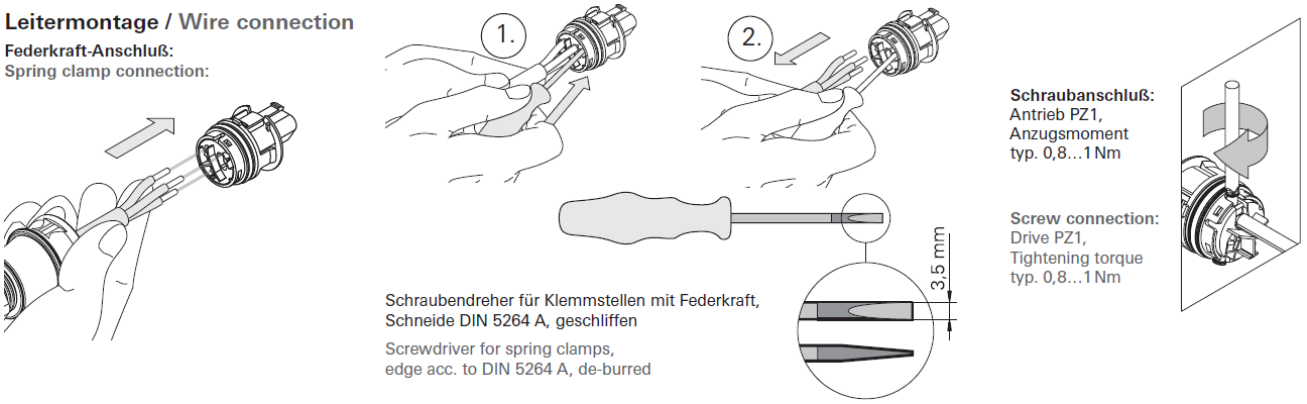
Connect to the Female Connector:

- Connect the live wire (brown) to the terminal block position marked with "L" (line supply).
- Connect the neutral wire (blue) to the terminal block position marked with "N" (neutral supply).
- Connect the earth wire (green/yellow) to the terminal block position marked with the earth symbol.
- Secure the connection by tightening the screws on the connector with a torque of 0.8-1 Nm.

Check Connections:

- Double-check that all wires are correctly connected and the terminals are secure.
- Make sure the strain relief device is correctly positioned and fastened to prevent any stress on the wires.

Follow Electrical Safety Protocols: Adhere to proper electrical safety protocols throughout the process, including ensuring the power is off during connection and verifying that the connections are safe before restoring power.



See Figure 8.

Figure 8

STEP 7:

Insert the Female Connector Head:

- Carefully insert the Female Connector Head back into the main body of the Female Connector.
- Push it in until it securely clicks into place with the spring clamp, ensuring the connector is firmly held.

Fasten the Cord Grip:

- At the end of the Female Connector, locate the cord grip.
- Tighten the cord grip securely to hold the main power cord in place, ensuring no strain on the wires.

Connect the Female and Male Connectors:

- Align the Female Connector with the corresponding Male Connector.
- Push them together until you hear or feel a click, indicating they are securely connected.

See Figure 9.

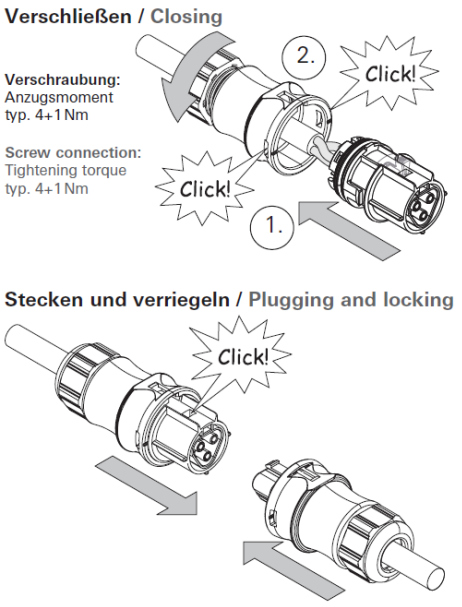


Figure 9

STEP 8:

Reinsert the Terminal Block:

- Carefully place the terminal block back into its holder, ensuring it is properly seated and aligned.

Guide the Main Power Cord:

- Thread the main power cord through the strain relief device and the spigot.
- Make sure the cord is routed securely and correctly to avoid stress or damage.

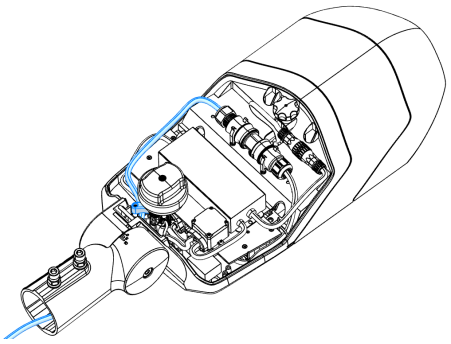


Figure 10

Secure the Main Power Cord:

- Use an appropriate tool, such as a screwdriver, to tighten the screws on the strain relief device.
- Ensure that the screw is securely fastened to hold the main power cord in place, preventing it from moving or pulling out of the device.

See Figure 10.

STEP 9:

Close the Lid:

- Carefully lower the lid into place, making sure it aligns properly with the base.

Check for Wires:

- Before securing the lid, ensure no wires or other components are pinched or trapped between it and the base.

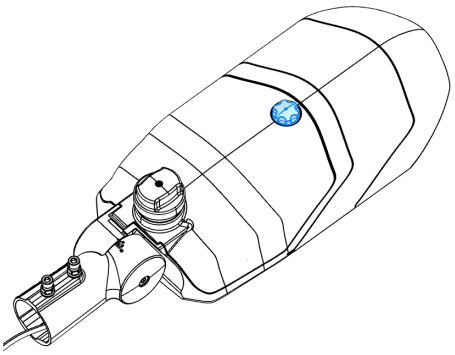


Figure 11

Tighten the Screw:

- Once the lid is aligned correctly, turn the locking screw clockwise to lock the lid securely.
- Make sure the screw is snug, but avoid overtightening to prevent damage.

See Figure 11.

STEP 10:

Slide the Luminaire onto the Pole:

- Carefully slide the luminaire onto the pole by inserting the pole into the spigot of the luminaire.
- Ensure the luminaire is fully seated on the pole.

Guide the Main Power Cord:

- Feed the main power cord back into the pole through the spigot.
- Ensure the main power cord is not pinched or twisted as you retract it towards the pole.

Rotate the Luminaire:

- Adjust the luminaire by rotating it to your desired position, ensuring it is correctly oriented for optimal lighting.

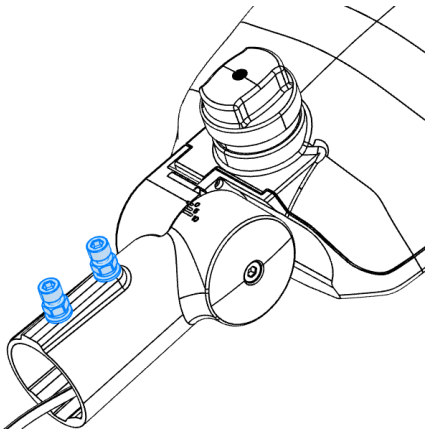


Figure 12

Inspect Levels:

- Check the vertical and horizontal alignment of the luminaire to ensure it is level and properly positioned.

Tighten the Locking Bolts:

- Secure the luminaire using a hex key to tighten the two hex socket head locking bolts attached to the spigot.
- Ensure the bolts are tightened evenly to maintain the alignment.

Secure with Nuts:

- Use a wrench to tighten the nuts on the spigot.
- Apply a torque of 8 Nm to 12 Nm to ensure the luminaire is firmly secured to the tenon without over-tightening, which could damage the spigot.

See Figure 12.

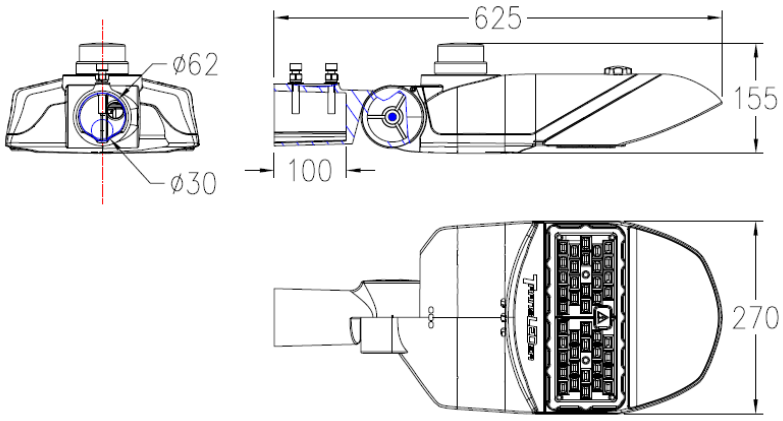
INSTALL PHOTOCELL/SHORTING CAP

Ensure the photocell or shorting cap blades are correctly aligned with the power contact circuits in the receptacle. Note that the neutral blade on the photocell/shorting cap is larger than the line and load blades for correct polarisation during mating.

Once the blades are aligned with the receptacle's power contact circuits, press down firmly until the photocell/shorting cap rests on the receptacle's mating surface, causing the gasket to compress slightly. Complete the process by rotating the photocell/shorting cap clockwise to lock it into position securely.

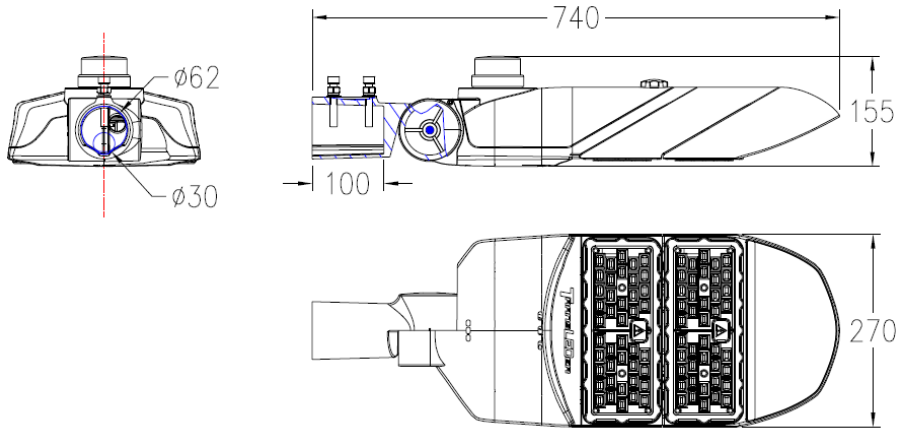
DIMENSIONS

1-Module Model



WEIGHT	**Max. luminaire weight** (kgs)	6.5
DIMENSION	L x W x H (m)	0.625 x 0.27 x 0.155
PROJECTED AREA	**Max. effective sail area** (m^2)	0.102

2-Module Model



WEIGHT	**Max. luminaire weight** (kgs)	8.0
DIMENSION	L x W x H (m)	0.74 x 0.27 x 0.155
PROJECTED AREA	**Max. effective sail area** (m^2)	0.115

CERTIFICATIONS

SAFETY	AS/NZS 60598-1:2017 + A1:2017 + A2:2020 used in conjunction with AS/NZS 60598-2-3:2015	Certified
EMC/EMI	EN 55015:2019 + A11:2020 EN 61547:2023, EN 61000-3-2:2019 + A1:2021 EN 61000-3-3:2013 + A1:2019 + A2:2021	Certified
IMPULSE TEST	AS 1931.1	Certified
PHOTOBIOLOGICAL SAFETY	IEC TR 62778:2014 (Second Edition)	Certified
THD	Max. Total Harmonic Distortion (%)	20
INGRESS PROTECTION	Min. Ingress protection	IP66
IMPACT TEST	IEC 62262:2002	IK10
LUMINAIRE VIBRATION	ANSI C136.31:2023	Level 2
WIND FORCE	AS 1798:2014	3G
SALINE MIST TEST	Salt spray test to ISO 9227 and ISO 10289	1,000 hours
RoHS COMPLIANCE	European Directive 2011/65/EC	Certified

ORDER GUIDE

Group	TL	A	B	C	DDD	EE	FF	G	HH	II	JJ
Example	TL	A	4	V	100	01	NW	D	SC	FM	GY

Group	Description
TL	It represents TransLEDer LED **Roadway Lighting.**
A	It represents the number of LED light module(s) which can be **A** **1 LED module** B 2 LED modules
B	It represents combinations of LED chips, optics, and visor options, distinguished by different models, such as 1, 2, 3, 4, 5, 6, and others.
C	It represents the luminaire Category, which can be P Category P **V** **Category V**
DDD	It represents input power, which can be a number, e.g., 100=**100 W.**
EE	It represents the optic model number.
FF	It represents the nominal Correlated Colour Temperature, which can be CW Cool White 5000 K (± 300 K) **NW** **Neutral White** **4000 K (± 300 K)** WW Warm White 3000 K (± 300 K)
G	It represents the Smart Lighting Interface, which can be **D** (DALI) or Z (Zhaga Book 18).
HH	It represents the NEMA receptacle controller, which can be **SC** **Shorting Cap** PE Photocell
II	It represents the Terminal Block Connection Type. FB Fused Terminal Block **FM** **Female and Male Connector**
JJ	It represents the luminaire body colour, which can be BK, BZ, GN, GY or WT. BK Black (RAL9017) BZ Bronze (RAL 8019) **GY** **Gray** **(RAL 7038) ***

‡ Warm-toned LED light sources (3000K or lower) must be selected to meet the International Dark-Sky Association dark sky requirements.