

LUXTENSION

TELESCOPIC LIGHTMAST

Installation Guide

LXT450 – Telescopic Light Tower



Installation Manual

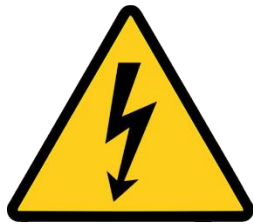
LXT450 – Telescopic Light Tower

Product: LXT450 - Telescopic Light Tower
Manufacturer: Luxtension B.V.
Address: Albert Plesmanweg 122
4462 GC Goes, The Netherlands
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1. Safety Instructions



Possible voltage hazard



Do not use under a high-voltage pylon



Do not use high-pressure cleaning

- Please read this manual completely before installation or use.
- Only qualified personnel are allowed to carry out installation, maintenance and service.
- Always turn off the power before working on the system.
- Do not operate the system under power lines.
- Do not use pressure washers on or near the mast.
- Work safely with air pressure: wear suitable PPE (Personal Protective Equipment).
- Use the product only within the specified operating conditions:
 - Temperature range: -20°C to +50°C
 - Air inlet pressure: maximum 10 bar

2. Tools Needed

You need 2 people to install the LXT450.

Before you start the installation, you will need the following:



Allen key 4 mm



Allen key 6 mm



Spanner 13



Spanner 17



Screwdriver Flat small



Phillips Screwdriver
small



Phillips Screwdriver

Supplies (Not included)

The following supplies are not included and you must take care of them yourself.



Air pressure hose Ø8mm



Power cable: 2x 2.5 mm² (Red/Black)

NOTE: Air compressor with dry air supply is not included.

3. Package contents

The package contains:

Component	Packaging	Weight
1x Telescopic mast	Box: 168 × 54 × 26 cm	15.2 kg
1x Lighting unit with 2x LXT-HL10 LED	Box: 66 × 54 × 26 cm	15.1 kg
1x Junction box + Wireless remote control	Box: 660 × 37 × 28 cm	7.5 kg



1x Power connector



1x Connection box key



2x Mounting brackets
Connection box



1 x Plate Gasket



1x Bolt set for Mounting brackets



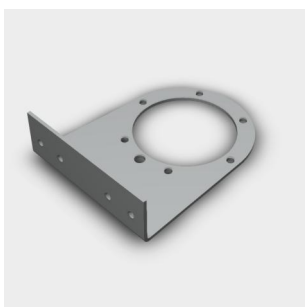
2 x Mounting plates for
Connection box



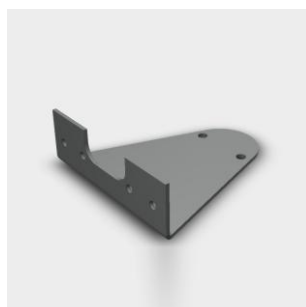
1x Sensor and mounting
nut



1x Bolt set mast



1 x Mast Mounting Brackets



1x Mounting brackets mast
bottom

Note: Mounting material such as power cables and air hose are not included.

4. Technical specifications

Mast

- ✓ Height: 1.6 m (retracted)
- ✓ Height: 4.5 m (extended)
- ✓ Material: Anodized aluminum
- ✓ IP Rating: IP67
- ✓ Air inlet pressure: < 2 bar
- ✓ Lifespan: >10 years

Lighting

- ✓ Type: 2x LXT-HL10 LED
- ✓ Light color: White (3000K)
- ✓ Light intensity: 64,883 lumens per lamp
- ✓ Wattage: 2x 216W
- ✓ Pan/Tilt: 358° horizontal, 180° vertical
- ✓ Housing: Anodized aluminum (black)

Remote control

- ✓ Communication: Wireless mesh
- ✓ IP65, ABS housing
- ✓ 3x AA batteries (included)

5. Installation Procedure

Mounting the mast

1. Remove the top ring from the mast.
2. Attach the mounting plate on top of the mast, replace the washer.



Mounting plate



Correct mounting plate attachment

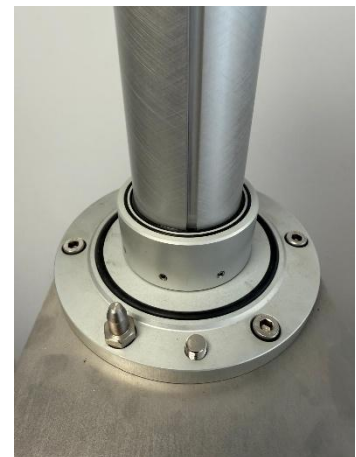
3. Attach the sensor cable with the included nut
4. Adjust the sensor to the same height as the adjacent centering pin.
5. Assemble the mounting plate with the bolts provided.



Sensor



Correct mounting plate attachment



Correct attachment of sensor

6. Attach the "mounting bracket 2" to the bottom of the mast, including the included gasket and the 2 mounting bolts.



Insert the plate gasket



Correct attachment of "mounting bracket 2"

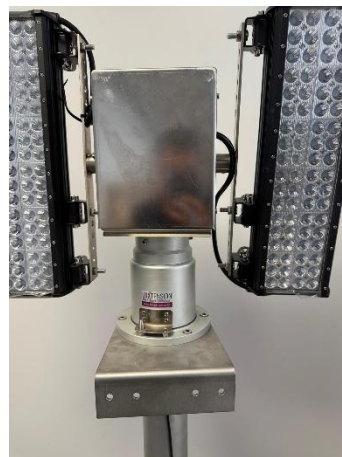
7. The mast can now be attached using the 8x M8 bolts supplied

Connecting lighting unit

1. Place the lighting unit on top of the pole.
2. Connect the wiring of the mast and the lamp COLOR ON COLOR.
3. Leave the lamp in the mast and tighten the 3 set screws properly.



Connect the wiring



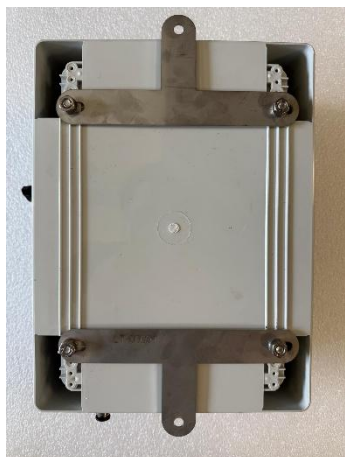
Lower the lighting unit and tighten the 3 set screws



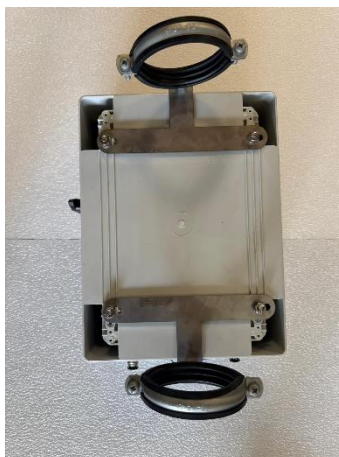
Correct assembly of the lighting unit.

Mounting the Junction Box

1. Install the 2 mounting plates to the Junction Box with the 4 bolts, spring washers, and nuts provided.
2. Install the 2 included pipe washers to both mounting plates with the 2 bolts provided.



Correct attachment of the brackets



Correct attachment of the tube rings

3. Mount the entire junction box to the mast at the desired height.



Correct attachment of the junction box



Correct attachment of the junction box

Note: If desired, you can place the Junction Box wherever you wish, you must then ensure that the cables are extended to a maximum of 10 meters.

Connecting the Junction Box

1. Connect the cable from the mast to the junction box.
2. Connect the sensor cable from the mast to the junction box.
3. Connect a power source (24vdc) to the junction box via the supplied connector.



Connection to the mast



Connection to the sensor



Connection with the
nourishing

Note:

Pin 1 = 24VDC

Pin 2 = Ground

4. Connect the air hose from the compressor to the junction box (not included)
 - a. Make sure the air source is stable and dry.
 - b. Cable diameter: 8mm
5. Connect an air hose to the mast. (not included)



Connection to the compressor



Connection to the air intake for mast

The mast is now ready for use.

6. Commissioning and operation

- Use the remote control to extend the mast and set the lighting.
- When using the ON/OFF button:
 - Lights switch off
 - Mast automatically lowers to sensor level
 - Without sensor: mast lowers for 1 minute



6. Care instructions

Frequency	Activity
Monthly	Check for wear/corrosion, air pressure regulator for moisture
Yearly	Inspect Air Hoses and Connections
Periodical	Clean LED units with dry cloth

8. Storage and transport

- Extend the mast completely.
- Disconnect power source and air pressure.
- Store in dry room between -10°C and +40°C.

9. Malfunctions and solutions

Problem	Solution
Mast does not extend	Check air pressure and hose
No light	Check power supply and lamp status
Remote control does not work	Replace batteries, check range

10. Warranty

The total system has a 1 year manufacturer's warranty from the moment of delivery.

D

C

B

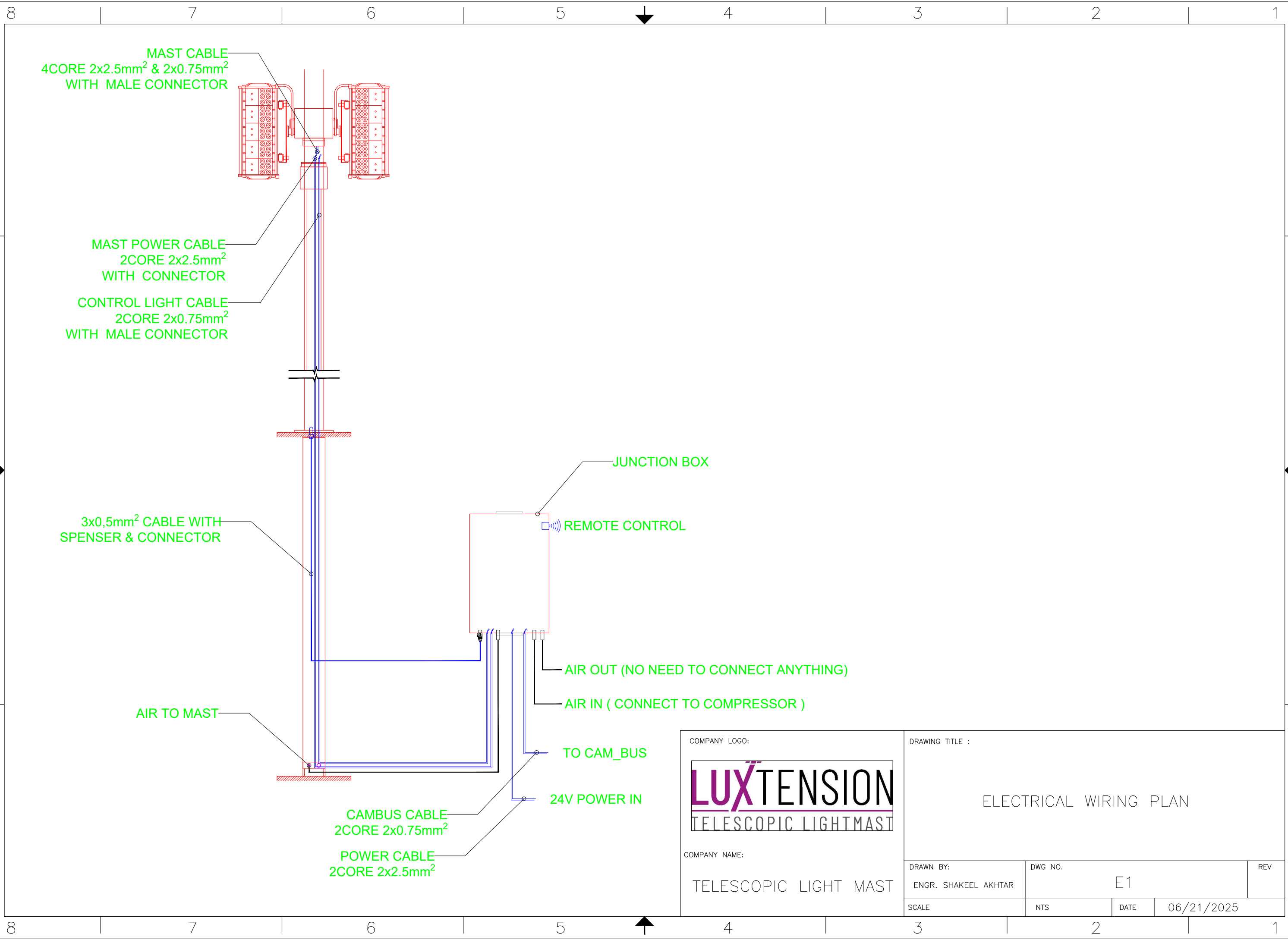
A

D

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A



COMPANY LOGO:		DRAWING TITLE :			
		ELECTRICAL WIRING PLAN			
COMPANY NAME:		DRAWN BY:		DWG NO.	REV
TELESCOPIC LIGHT MAST		ENGR. SHAKEEL AKHTAR		E1	
SCALE		NTS	DATE	06/21/2025	