theben

307045 01

LUXOR 440 4400000

Weather sensors

1. Proper use

The weather sensors constitute a combi-device that records temperature, brightness and wind speed. A rain sensor is also installed on the top of the device. The device is designed for use on buildings.

These variables are sent to the LUXOR sensor module 411 via the COM interface and further processed there.

2. Safety information

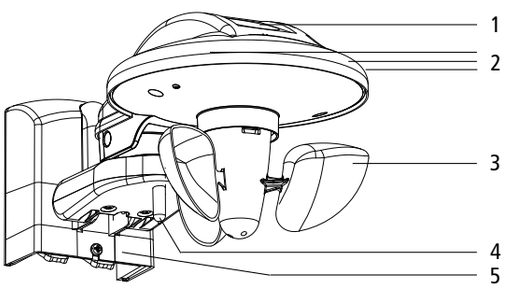
⚠

➢ Installation should be carried out only by a qualified electrician!

⚠ Rain sensor becomes hot during use!
➢ Do not touch the rain sensor.

- Rain is detected only when the rain sensor is sufficiently wet. There can be a delay between the first raindrops in a shower to the point where rain is detected.
- When the rain stops, and despite heating, it can take several minutes before the sensor is dry again and the device is able to detect that correctly.
- The wind sensor can freeze at temperatures below freezing and in wind.
- **Caution**: When it is windy, awnings/blinds take time to retract.
  ➢ Enter the wind thresholds according to the value specified by the awning/blind manufacturer.

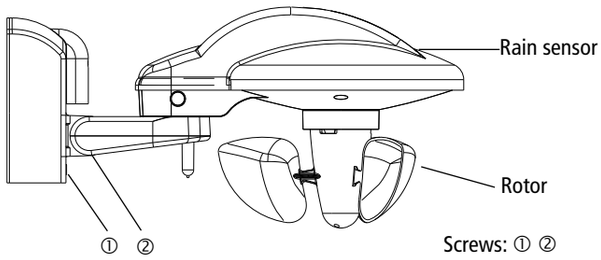
3. Description



1 Rain sensor with heating
2 Light sensors
3 Rotor
4 Temperature sensor
5 Wall bracket with connection for power supply and communication (with LUXOR 411)

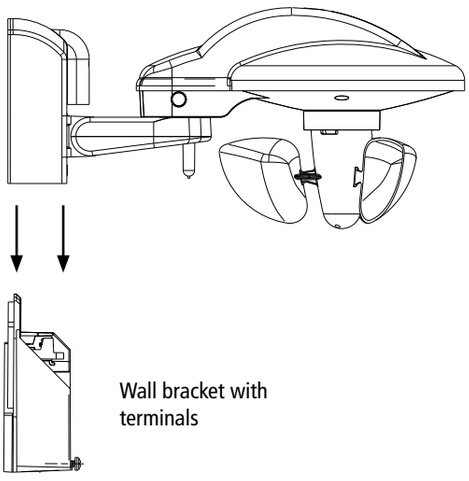
4. Installation

➢ Do not install the wind sensor in a sheltered position.
➢ Avoid shadows (e.g. from masts etc.) and reflected light.
➢ Pay attention to mounting position
  – Rain sensor facing upwards
  – Rotor facing downwards



Wall installation

➢ Secure wall bracket to the wall using screws and washers provided (see chapter 5).
  The washers are important for achieving the IP 44 protection rating.
➢ Feed the cables through the rubber seals, strip cores to 8 mm and insert in the terminals (provide flexible cores with crimp terminals).
➢ Loosen screws ②.
➢ Push weather sensors down into the wall bracket.
➢ Tighten screw ①.
➢ Position weather sensors horizontally and tighten screws ②.



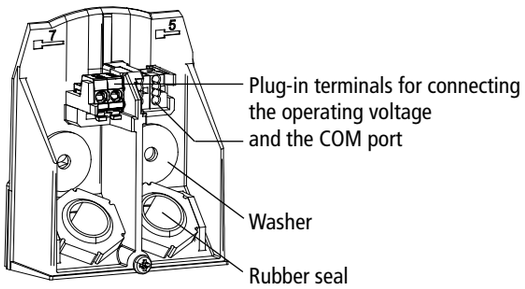
Wall bracket with terminals

Mast or corner bracket fixing

The weather station can also be attached to a mast with mast or corner fixing (accessory 9070380).

This installation method is recommended if wind is to be registered from all directions.

5. Electrical connection

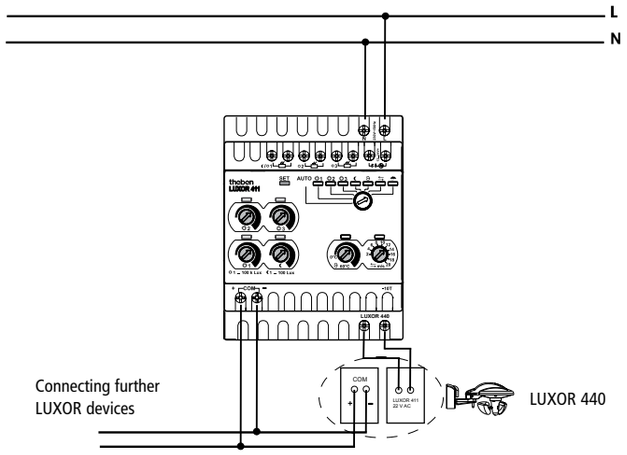


Feed in lines

➢ Feed the cables through the rubber seals, strip cores to 8 mm and insert in the terminals (provide flexible cores with crimp terminals).

Remove cables

➢ Remove cables by rotating and pulling out of the terminals.



The operating voltage is extra-low voltage SELV.
The COM port is function low voltage FELV.

6. Technical data

- Operating voltage: 22 V AC +10 % –15 %
- Frequency: 50 Hz
- Power consumption: < 5.5 W
- Standby min.: < 3 W
- Permissible ambient temperature: –20 °C ... +55 °C
- Protection class: II when properly installed
- Protection rating: IP 44 in accordance with EN 60529

- Cable power supply: max. cable cross-section 1.5 mm²
- COM port: EIB/KNX bus line: TYPE YCYM or Y(ST)Y; telecommunication line J-Y(ST)Y, length to 100 m
- Mast installation: Dm 50–60 mm (accessory 9070380)
- Measurement range
  – Wind sensor: 1–20 m/s
  – Temperature sensor: –30 °C to +60 °C
  – Brightness sensor (3): 1–130000 lux
- Rain sensor: Rain/no rain
- Mode of operation: Type 1
- Pollution degree: 4 (2 inside the housing, since IP 44)
- Rated impulse voltage: 0.33 kV

Please refer to the Handbook for LUXOR 411 for detailed functional descriptions.

Theben AG
Hohenbergstr. 32
72401 Haigerloch
GERMANY
Phone +49 7474 692-0
Fax +49 7474 692-150

SERVICE
Phone +49 7474 692-369
Fax +49 7474 692-207
hotline@theben.de

Addresses, telephone numbers etc. at www.theben.de