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› Theben LUNA 121 top3 RC AL Twilight Switch with Integrated Light Sensor - DIN Rail Instruction Manual

Theben LUNA 121 top3 RC AL (Model 1210130)

Theben LUNA 121 top3 RC AL Twilight Switch Instruction Manual

Model: LUNA 121 top3 RC AL (Model 1210130)

Brand: Theben

IMPORTANT SAFETY INFORMATION

Please note that electrical work must be performed exclusively by specialized electricians or under their supervision. Improper installation or handling can lead to serious injury or damage. Always disconnect power before installation or maintenance.

PRODUCT OVERVIEW

The Theben LUNA 121 top3 RC AL is a DIN rail-mounted twilight switch with an integrated light sensor, designed for automatic control of lighting based on ambient brightness. It features a programmable night shutdown, control input, and robust specifications suitable for various lighting loads.

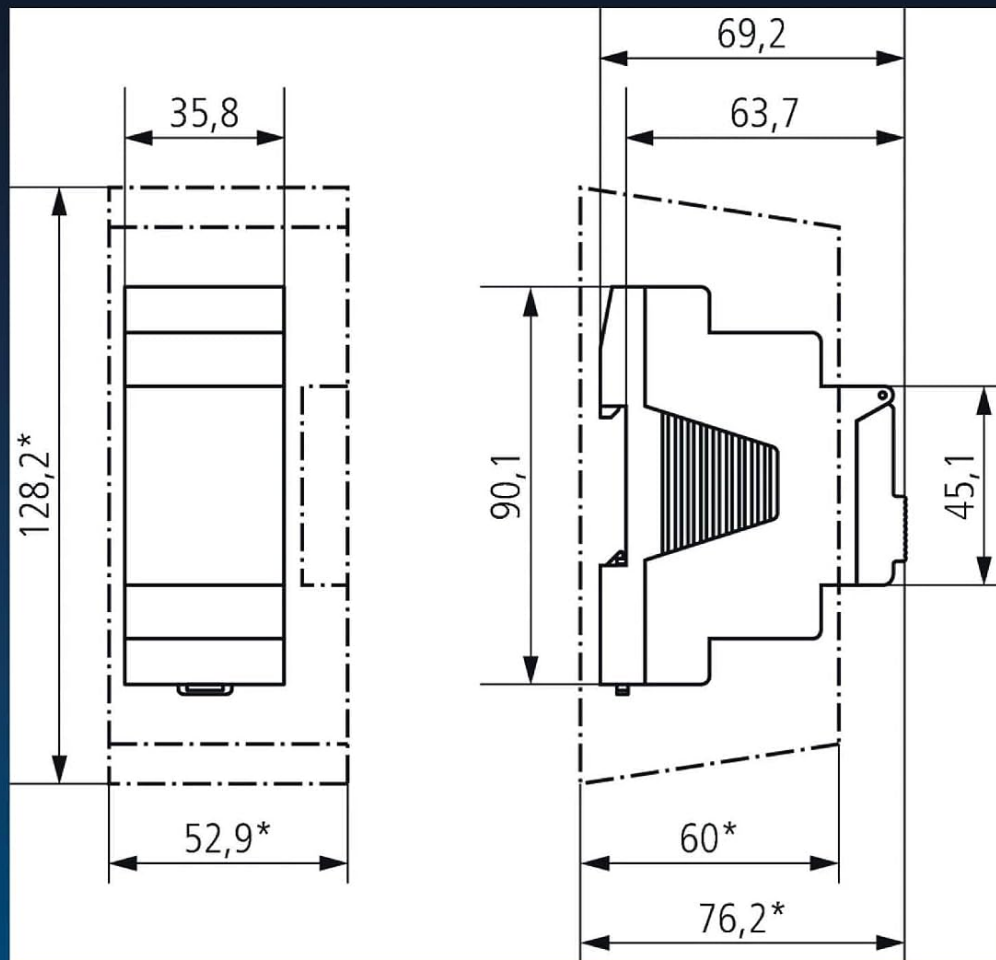


Figure 1: Front view of the Theben LUNA 121 top3 RC AL Twilight Switch.

SETUP AND INSTALLATION

Mounting

The device is designed for standard DIN rail installation. Ensure adequate space and ventilation around the unit for optimal performance and heat dissipation.

Dimensions

Refer to the dimension diagram below for precise measurements to aid in installation planning.

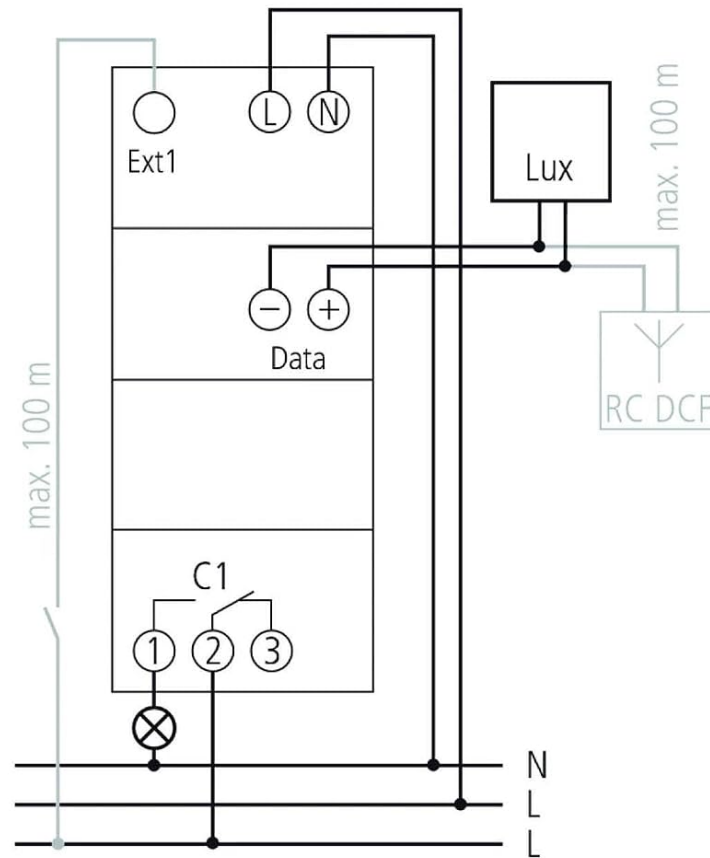


Figure 2: Dimensions of the LUNA 121 top3 RC AL (in mm).

Wiring

Connect the twilight switch according to the provided wiring diagram. The maximum permissible cable length for the external light sensor is 100 meters. Ensure all connections are secure and comply with local electrical codes.

Operating voltage	110 V AC - 230 V AC
Frequency	50 - 60 Hz
Number of channels	1
Number of memory locations	84
External inputs	1
Stand-by consumption	~0.8 W
Program	Weekly program
Additional program	Extra/Holiday program
Time basis	Quartz/DCF77
Setting range brightness	1 - 99000 lx
Preset brightness value	15 lx
Switch-on delay	0 - 59 min
Switch-off delay	0 - 59 min
Type of contact	Changeover contact
Width	2 modules
Installation type	DIN rail
Type of connection	DuoFix spring terminals
Display	LCD-Display
Keyboards	4 touch buttons
Shortest switching times	1 min

Figure 3: Connection example for the LUNA 121 top3 RC AL.

OPERATING INSTRUCTIONS

Initial Power-Up

Upon initial power-up, the device will perform a self-test and display the current time and operating mode. Follow the on-screen prompts for basic setup.

Setting Brightness Value

The brightness value setting range is 1 to 99000 lux. Use the control buttons to adjust the desired lux level at which the switch should activate (turn on) or deactivate (turn off) connected lighting. A preset brightness value of 15 lux is typically configured.

Programmable Night Shutdown

The device includes a programmable night shutdown feature. This allows you to define specific periods during the night when the lighting should remain off, regardless of the ambient brightness. Consult the detailed programming menu on the device for setting these periods.

Control Input

The unit features a control input (Ext1) for external triggering or override functions. This can be used for manual override or integration with other control systems.



Figure 4: Example of a digital display for programming settings.

MAINTENANCE

The Theben LUNA 121 top3 RC AL is designed for maintenance-free operation under normal conditions.

- Keep the device clean and free from dust.
- Do not use abrasive cleaners or solvents, as these can damage the housing or display.
- Ensure the light sensor is unobstructed and clean for accurate ambient light readings.

TROUBLESHOOTING

Device Not Switching

- **No Power:** Check the main power supply (230 V AC) to the device.
- **Incorrect Wiring:** Verify all wiring connections against the provided diagram (Figure 3).
- **Obstructed/Dirty Sensor:** Ensure the light sensor is clean and not obstructed by dirt, dust, or objects.
- **Brightness Threshold:** Check the set brightness value (lux) and compare it to the current ambient light conditions. Adjust if necessary.
- **Night Shutdown Active:** Confirm that the programmable night shutdown feature is not currently active, preventing the lights from turning on.

Incorrect Switching Times

- **Sensor Calibration:** If the switching behavior is inconsistent, the light sensor may require re-calibration (refer to the device's internal menu for this function).
- **Brightness Threshold:** Fine-tune the brightness threshold to match desired switching levels more accurately.
- **Delay Settings:** Check the switch-on and switch-off delay settings (0-59 min) which can influence the response time.

- **Time Basis:** Ensure the internal clock (Quartz/DCF77) is correctly synchronized.

TECHNICAL SPECIFICATIONS



Figure 5: Technical Specifications (Part 1).

Feature	Specification
Operating Voltage	230 V AC
Frequency	50 - 60 Hz
Max. Incandescent Lamp Load	3600 W
Max. Fluorescent Lamp Load (conventional)	3600 VA
Max. Switching Power LED	600 W

Rated Switching Current	16 A (at 250 V AC, $\cos \varphi = 1$) / 10 A (at 250 V AC, $\cos \varphi = 0.6$)
Brightness Value Setting Range	1 - 99000 lx
Preset Brightness Value	15 lx
Max. Cable Length Light Sensor	100 m
Protection Class (Device)	IP20
Protection Class (Light Sensor)	IP55
Installation Type	DIN Rail
Width in Division Units	2
Installation Depth	69.2 mm
Material	Plastic (High-temperature resistant, self-extinguishing thermoplastic)
Ambient Temperature	-25°C ... 55°C
Power Reserve	10 years at 20°C
Inrush Current	max. 800 A / 200 μ s
Sensor (Included)	Surface-mounted light sensor
Type of Contact	Changeover contact
Type of Connection	DuoFix spring terminals
Display	LCD-Display
Keyboards	4 touch buttons
Shortest Switching Times	1 min
Program	Weekly program
Additional Program	Extra/Holiday program
Time Basis	Quartz/DCF77
Switch-on Delay	0 - 59 min
Switch-off Delay	0 - 59 min

WARRANTY AND SUPPORT

Warranty

Spare parts for the Theben LUNA 121 top3 RC AL are available for 1 year from the date of purchase. For specific warranty terms and conditions, please refer to the official Theben warranty documentation provided with your product or available on the manufacturer's website.

Customer Support

For technical assistance, troubleshooting, or further inquiries regarding your Theben LUNA 121 top3 RC AL twilight switch, please contact Theben customer support through their official website or an authorized distributor. Have your model number (1210130)

and purchase details ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question