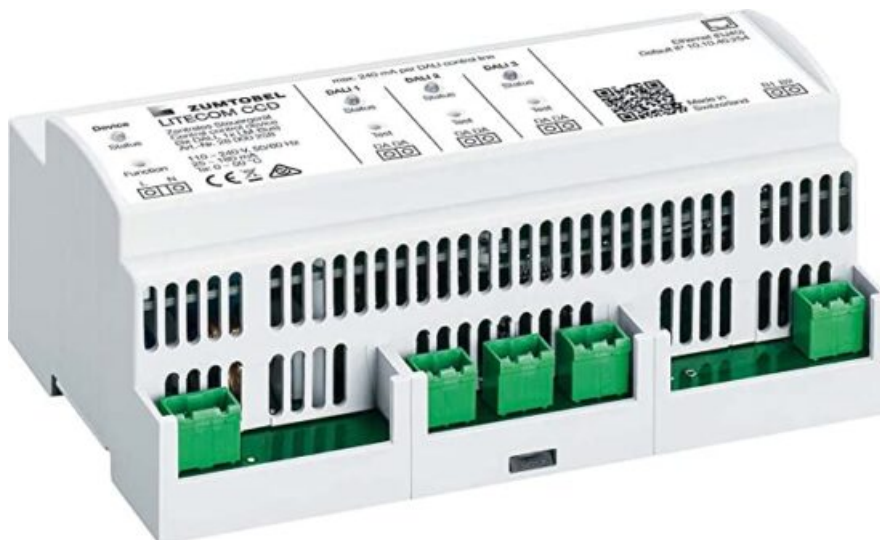


LITECOM ccd Central Control Device Installation Guide

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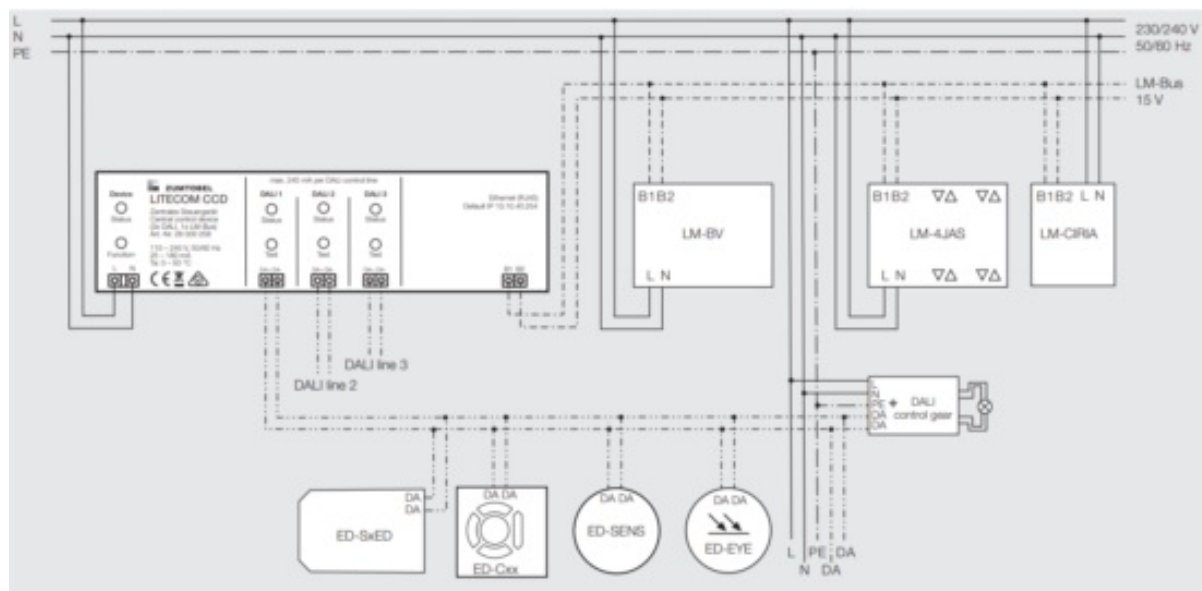
LITECOM ccd Central Control Device Installation Guide



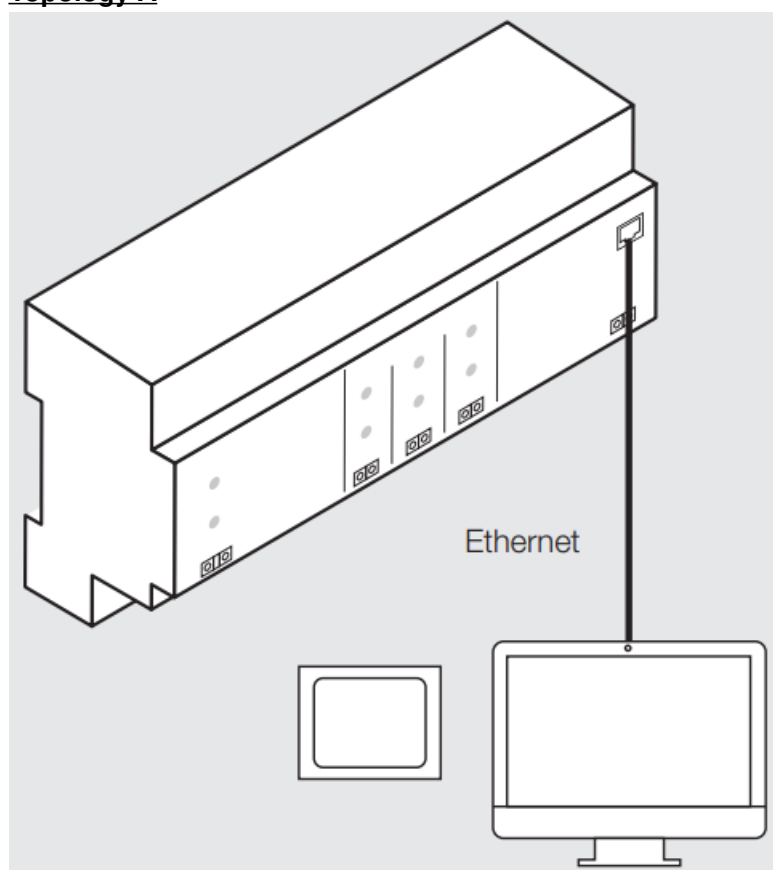
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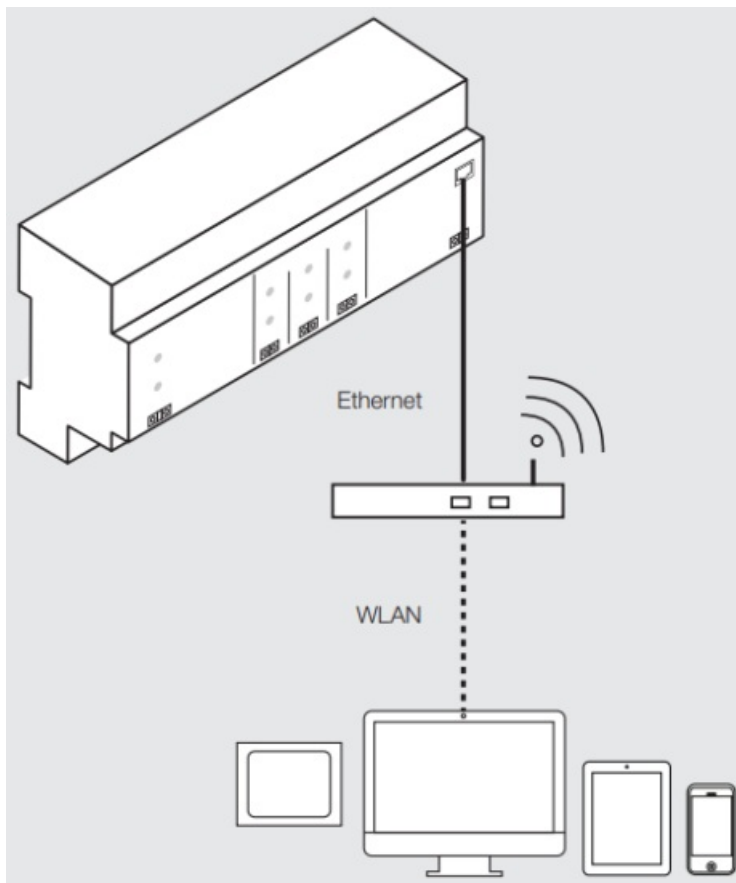
INSTALLATION



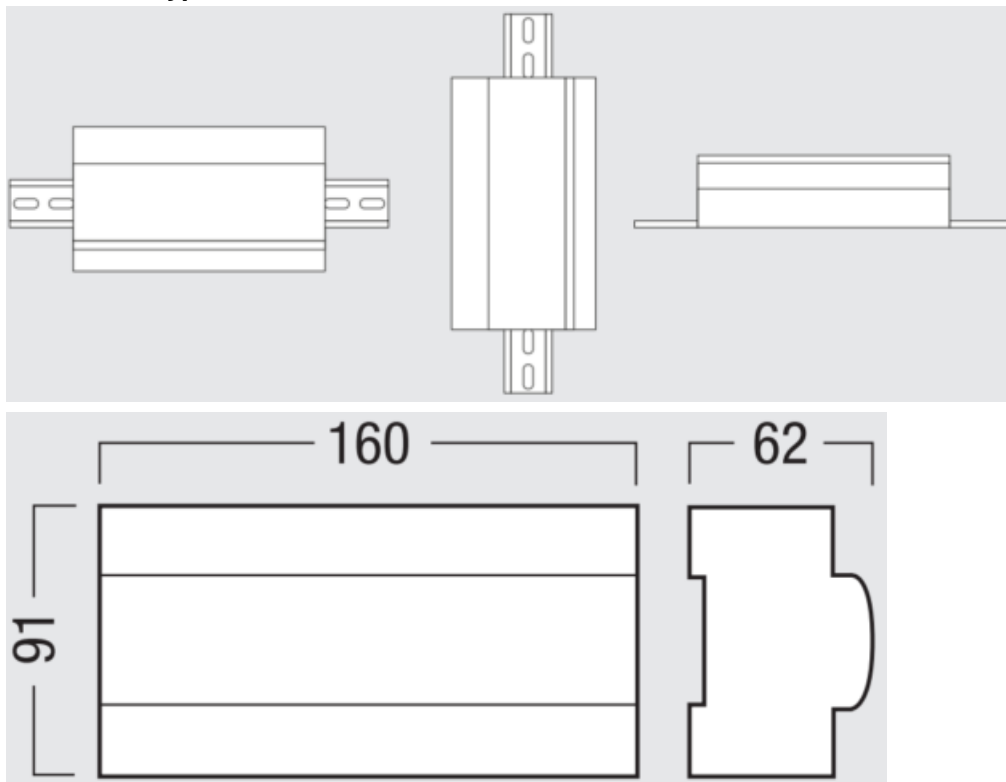
Topology A



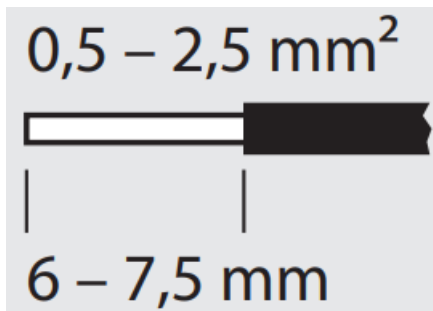
Topology B



Installation types



fine-stranded mono brin



Zumtobel Lighting GmbH
Schweizer Strasse 30, 6851 Dornbirn AUSTRIA
www.zumtobel.com



Warning: dangerous voltage

Application area

Control device with 3 DALI-compliant outputs and one LM-Bus interface for controlling maximum 250 luminaires and motors.

Technical data

Nominal voltage 110–240 V, 50–60 Hz

Permissible input voltage 100–260 V, 50–60 Hz

Power dissipation Max. 20 W

Outputs 3 DALI-compliant outputs (DALI 1–3); per output:

- max. 64 DALI addresses and 64 eD addresses;
- max. 240 mA or max. 120 DALI loads

Ports 1 Ethernet port (Ethernet): RJ45 plug; speed of data transfer: 10/100 Mbit/s

Interface LM-Bus (B1, B2) (LM system limits depend on the LM-Bus supply used)

Terminals 0.5 – 2.5 mm² (solid or fine-stranded)

Degree of protection IP20

Protection class Protection class II (only with correctly installed terminal covering)

Housing material Polycarbonate (PC), flame-retardant, halogen-free

Installation On top-hat rail, 35 mm in accordance with EN 50022

Dimensions 160 × 91 × 62 (W × H × D, in mm), 9 HP every 17.8 mm

Permissible ambient temperature 0–50°C, installation type 1 (e.g. in distribution board) 0–40°C, installation types 2 and 3

Permissible relative humidity 20–90%, non-condensing

Weight Approx. 600 g

System design and installation notes

- Installation: fixed only, in a clean and dry environment, access only possible with tools; in solid distribution board or solid, closed distribution unit only, requirements given in standards for fire and contact safety in accordance with EN 62368-1 must be met
- Topology: connect LITECOM CCD and display device (touch panel, computer) via Ethernet cable (topology A) or connect LITECOM CCD and display device (touch panel, computer, mobile device) via a wireless access

point (topology B)

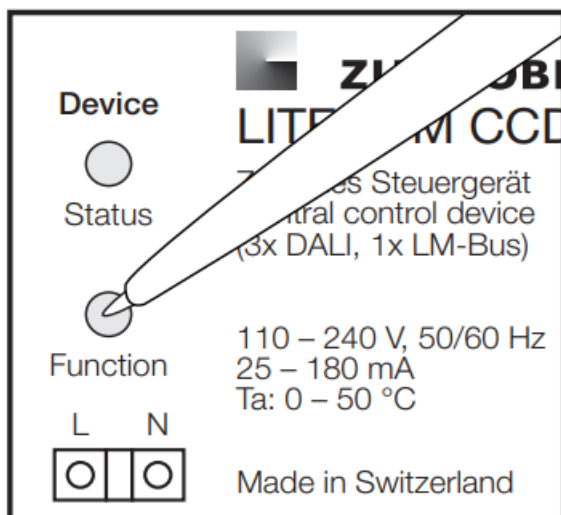
- Mains line: must not be interrupted by control points
- Ethernet line: at least CAT5 cable, shielded
- Bus line and DALI control line: use standard installation materials for low voltage systems (< 1,000 V); only tree, linear and star topologies permitted
- Bus cores: may be reverse connected
- DALI control line:

Conductor cross-section	Maximum DALI line length
2 × 0.50 mm ²	100 m
2 × 0.75 mm ²	150 m
2 × 1.50 mm ²	300 m

Function key

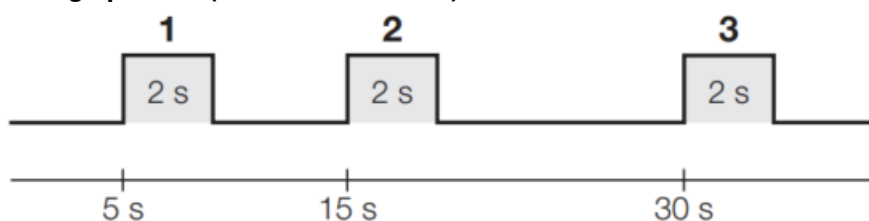
The function key can be used to trigger certain functions.

Triggering a function



1. Press the function key.
2. Release the function key in the desired orange phase.
 - Function is triggered.

Orange phases (status LED device)

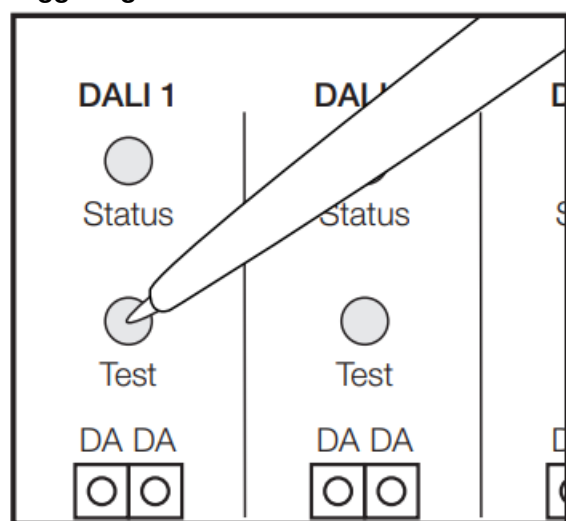


Orange phase	Function
1	Restart the <i>LITECOM CCD</i> .
2	Delete the addresses and short addresses of all control gear and input devices connected to the 3 DALI control lines.
3	Reset the IP address to the factory setting (10.10.40.254).

Test key

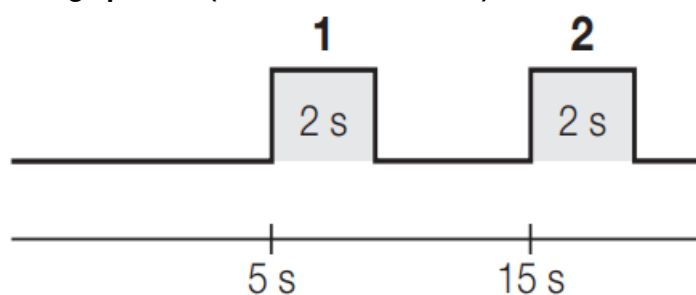
The test key can be used to trigger tests and certain functions for the related output (DALI 1–3).

Triggering a function



1. Press the test key.
2. Release the test key in the desired orange phase.
Function is triggered.

Orange phases (status LED DALI 1–3)



Test mode

1. If the test key is pressed for less than 2 seconds, all connected luminaires are switched on.
2. If the test key is then pressed again for less than 2 seconds, the luminaires alternate each time between on and off.
3. To exit test mode, press the test key and release during the 1st orange phase.

Status LED

Device

Status LED	Duration	Description
Green, intermittently flickering	Continuous	Fault-free operation
Off	Continuous	No mains voltage (L, N)

DALI 1, DALI 2, DALI 3

Status LED	Duration	Description
Green, intermittently flickering	Continuous	Fault-free operation
Green, flashing on/off every 0.5 s	Continuous	Test mode
Orange, flashing on/off every 0.5 s	Continuous	Addressing (Exception: visual and acoustic sensor location) or DALI initialisation
Off	Continuous	No mains voltage (L, N)
Red	Continuous	More than 64 DALI-compliant devices or more than 64 eD devices connected
Red, intermittently flickering	Continuous	DALI control line short-circuited or more than 120 DALI loads
Red, interrupted by intermittent green flickering	Continuous	Lamp failure

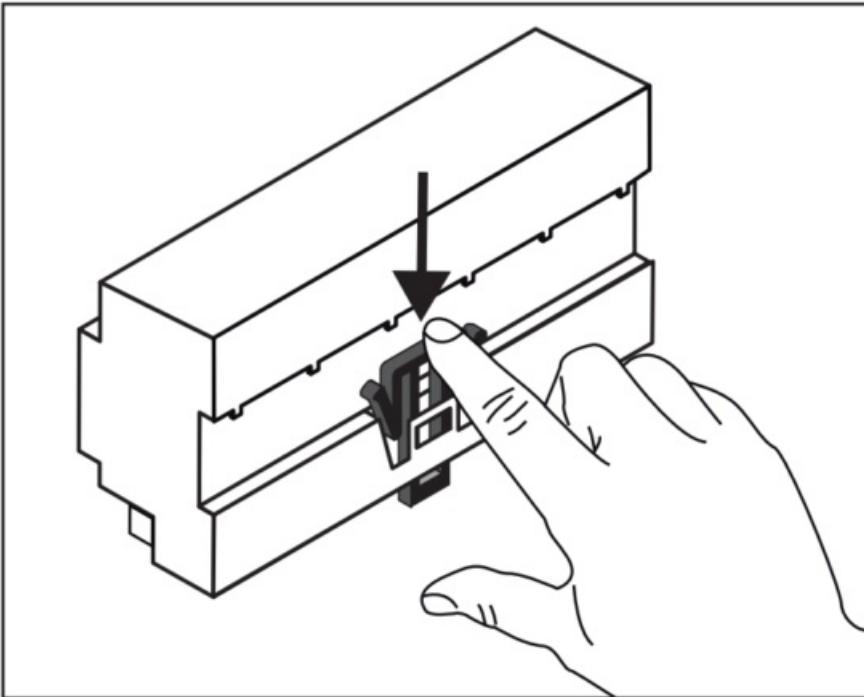
Safety instructions

- The device may only be used for the application area specified.
- Relevant health and safety regulations must be observed.
- When mounting and installing the device, the voltage supply must be disconnected.
- Only qualified personnel may mount, install and commission the device.
- Protection class II can only be guaranteed when the terminal covering has been correctly installed.
- If a fault occurs, dangerous voltage levels may be present at the LM-Bus terminals, at the DALI terminals and on the DALI control line.
- The device is not suitable for use in locations where children may be present.
- The electrical system from which the device is supplied must have a suitable disconnecting device (e.g. circuit

breaker).

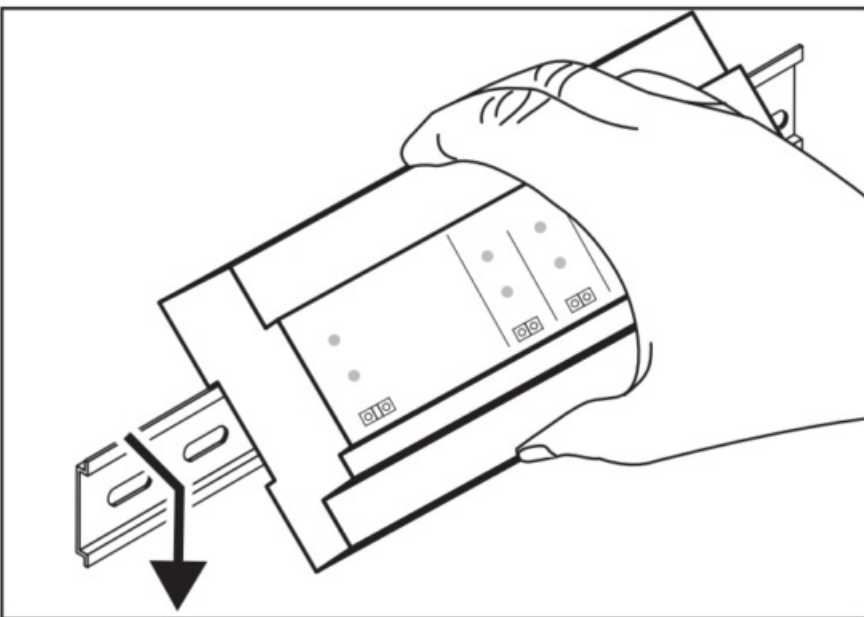
Installation

- Disconnect the voltage supply.
- Press the black locking hook down.



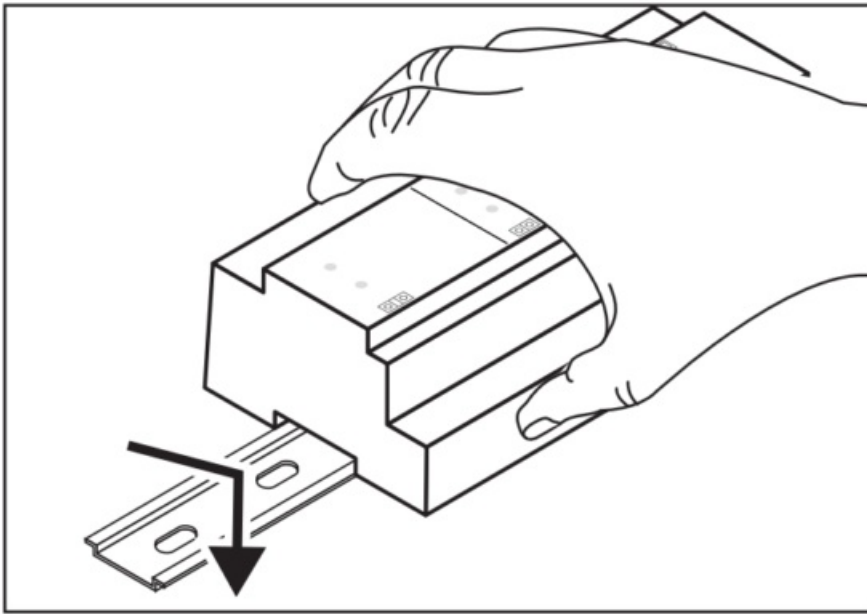
Installation type 1 (e.g. in distribution board)

- Attach the device onto the top-hat rail, first at the top and then at the bottom.



Installation type 2

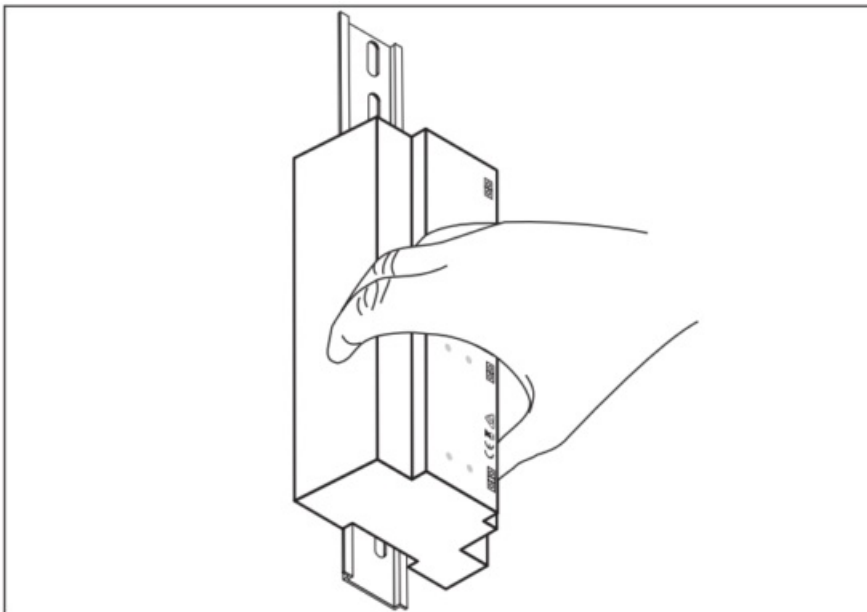
- Attach the device onto the top-hat rail, first at the top and then at the bottom.



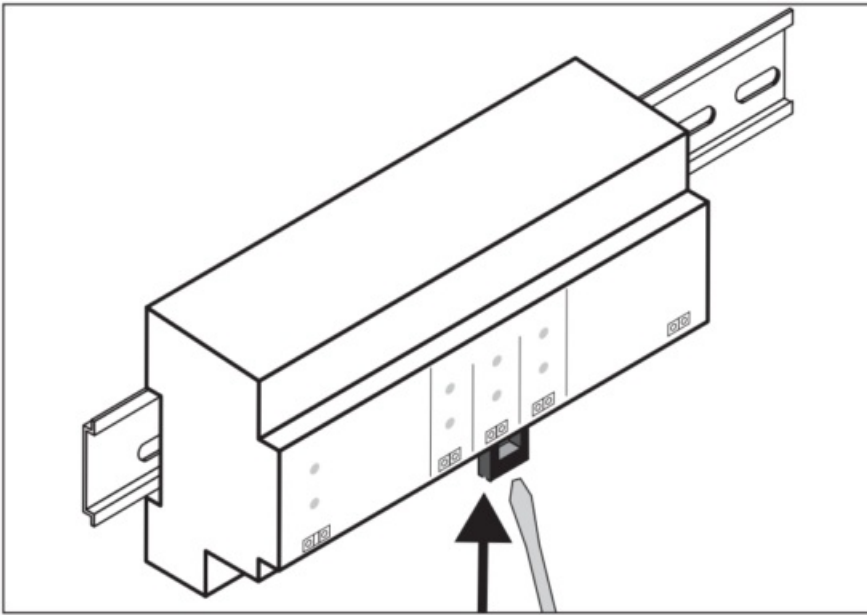
Installation type 3

Depending on which side the black locking hook is situated:

- First attach the left part and then the right part of the device to the top-hat rail.
— or —
- First attach the right part and then the left part of the device to the top-hat rail.



- Fasten the locking hook again.
- Reconnect the voltage supply



Documents / Resources



[LITECOM ccd Central Control Device](#) [pdf] Installation Guide
ccd Central Control Device, Central Control Device, Control Device