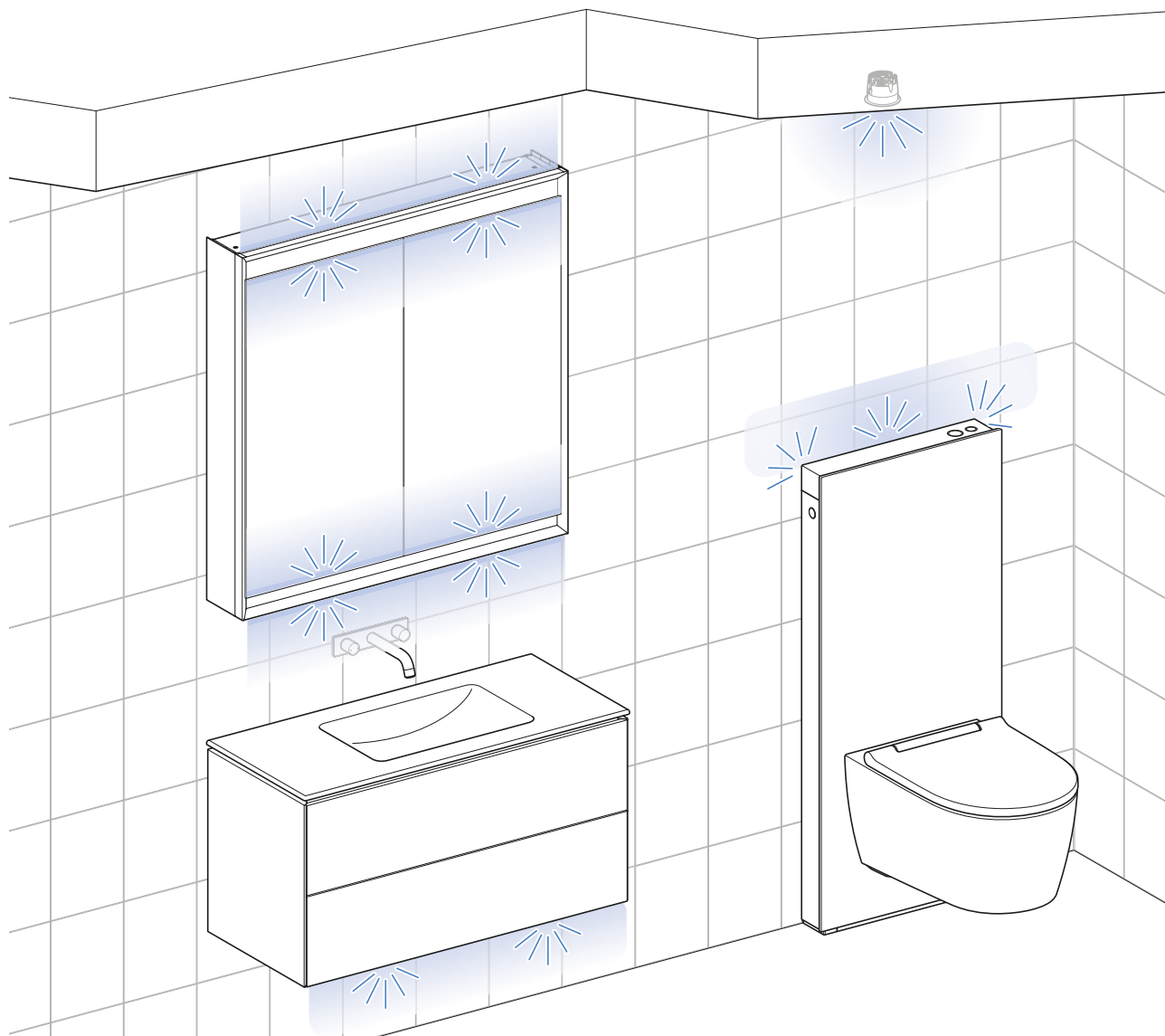




SYSTEM MANUAL

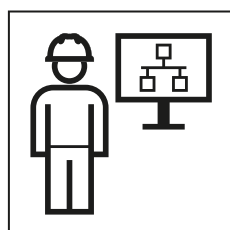
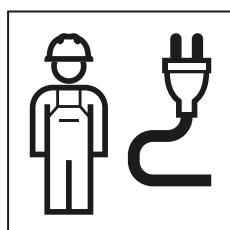


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1 About this document

1.1 Purpose

This system manual describes the DALI connectivity between all Geberit ComfortLight devices. It contains all the information required for the purposes of planning, installation, commissioning and operation.

1.2 Related documents

This system manual contains comprehensive information on the connectivity of Geberit ComfortLight devices.

The following product-specific instructions are not included. These are available either as a product supplement or in the online catalogue.

- Installation instructions for the end devices and system components
- Operating and maintenance instructions for the end devices

The product range can be viewed in the product catalogues of the relevant sales companies.

2 Safety

2.1 Target group

This system manual is intended for skilled persons responsible for the DALI connectivity of Geberit ComfortLight devices.

A skilled person is a person who, due to their specialist education, training and/or experience, is able to recognise risks and avoid hazards that may arise when planning, installing and using the products.

2.2 Safety notes

The following safety notes must be observed when using the Geberit ComfortLight devices:

- Electrical connections may only be set up by trained electricians.
- Disconnect the power supply before connecting the cables.
- Only carry out the installation within the defined IP protective areas in the bathroom and take the appropriate safety measures.
- Only use original spare parts when making repairs.
- Do not modify the product or carry out additional installations.

The safety notes enclosed with the devices must also be observed.

3 System overview

3.1 Connectivity overview

Geberit ComfortLight devices can benefit from wired connectivity using DALI technology. DALI (Digital Addressable Lighting Interface) is a widespread, open standard for lighting control systems with control devices, operating devices and input devices.

The DALI bus supplies the operating devices with digital control information. This means that several DALI-capable devices can be operated simultaneously with one control device, allowing the colour temperature and brightness of all lights in the DALI network to be controlled synchronously.

The Geberit ONE mirror cabinet serves as the control device (master). All other Geberit ComfortLight devices are controlled as operating devices. The DALI power supply unit can be installed in the mirror cabinet under the cover, for example.

The light control can be operated via the Geberit Home app, the integrated touch sensor switch of the mirror cabinet, or a wall switch connected to the mirror cabinet. DALI-capable third-party products can also be integrated and controlled with the mirror cabinet, although this requires configuration of the control parameters → see "Group assignment and configuration", page 11.

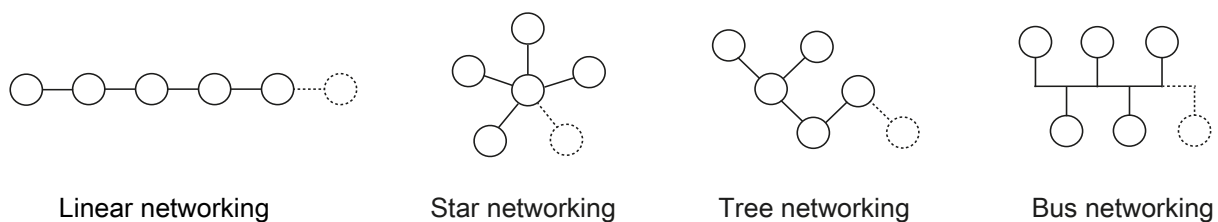


Figure 1: Possible DALI networking options for the Geberit ComfortLight

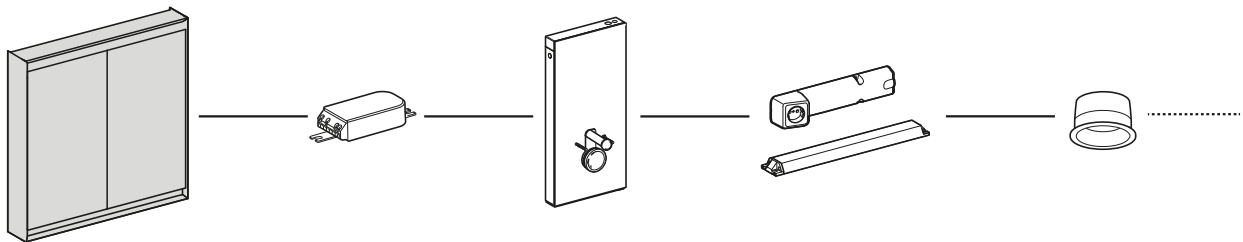
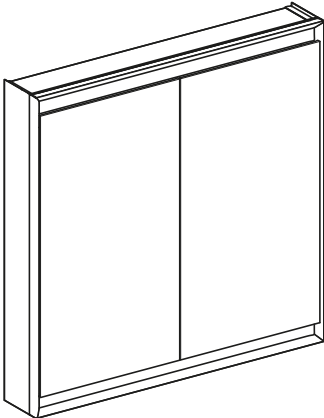
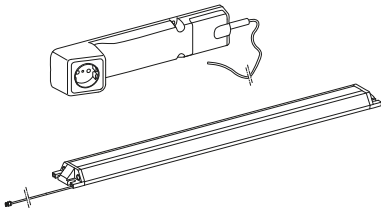
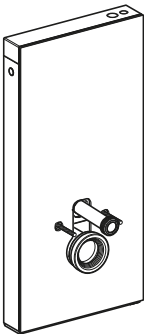
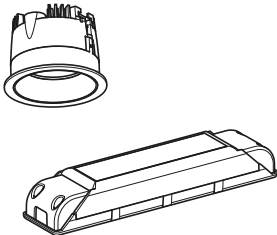


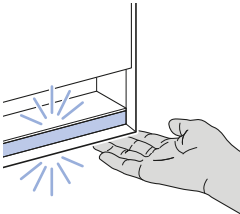
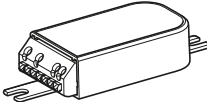
Figure 2: Linear networking example

3.2 Lighting concept

The Geberit ComfortLight lighting concept is designed so that the colour temperature of all lights in the DALI network is switched synchronously, i.e. the lights always have the same colour temperature. The brightness, on the other hand, is regulated depending on the type of light (working light or indirect lighting). The devices are assigned to groups and controlled in groups.

3.3 Components overview

Category	Devices	
Geberit ComfortLight devices		Geberit ONE mirror cabinet with ComfortLight (always required as master)
		Geberit power socket element with ComfortLight module for Geberit ONE washbasin cabinets
		Geberit Monolith Plus sanitary module for WC (from year of manufacture 2023)
		Geberit LED ceiling spotlight DALI for ComfortLight

Category	Devices	
Third-party products ¹⁾		Ceiling lights
Input devices (operation) ²⁾		Wall switch ³⁾ for additional operation of the mirror cabinet, standard model without DALI function and only connected to the mirror cabinet with live cables
		Touch sensor switch on the mirror cabinet
		Geberit Home app
DALI power supply unit		Geberit power supply unit ⁴⁾ for DALI bus for ComfortLight. The power supply unit can be installed in the mirror cabinet under the cover, for example.

- 1) DALI-capable third-party products have not been tested by Geberit. Flawless operation cannot be guaranteed. The synchronised connection to the Geberit ComfortLight products requires configuration of the control parameters → see "Group assignment and configuration", page 11.
- 2) All input devices can be used together.
- 3) DALI dimmers are not recommended as they lead to malfunctions.
- 4) Not included in the scope of delivery.

4 Planning

4.1 Electrical connection

Geberit ComfortLight devices are integrated into the DALI network using a 5-core cable. In addition to the 3 cores for the 230 V supply voltage (L/N/PE), 2 cores are used for the supply voltage and communication of the DALI bus (DA+/DA-). This means that all Geberit ComfortLight devices can be easily installed and controlled simultaneously.

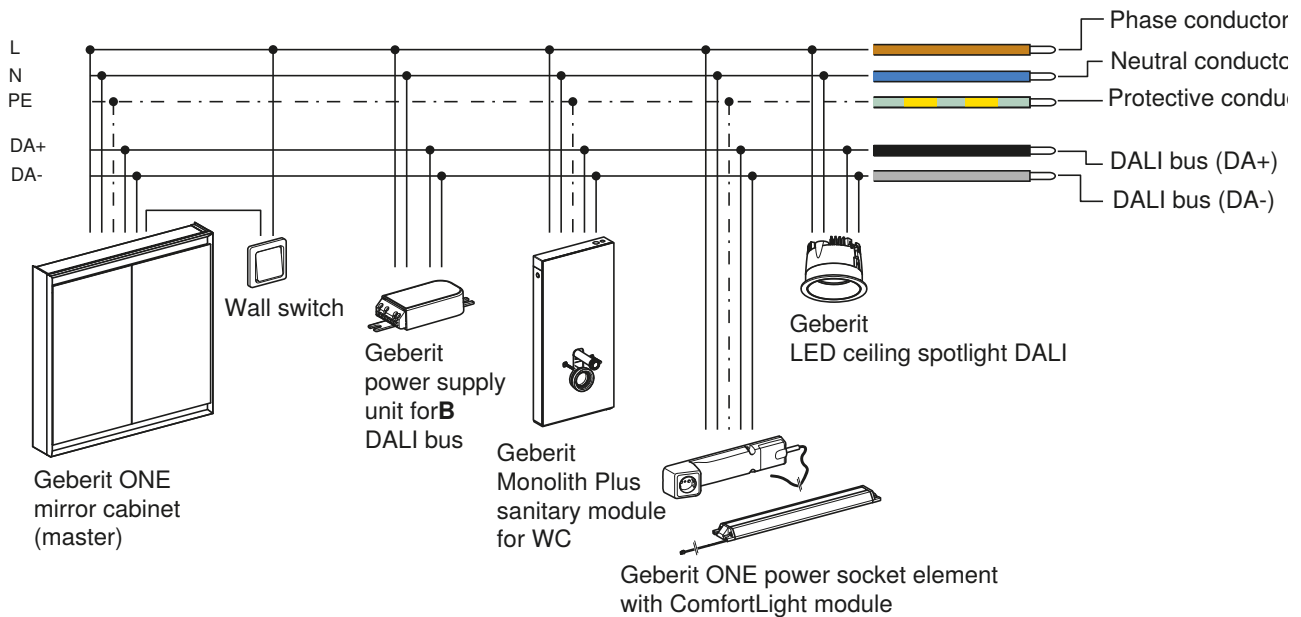


Figure 3: Example of a connection diagram for Geberit ComfortLight devices in a DALI network

The supply voltage and communication lines (DA+ and DA-) are designed with reverse polarity protection for the two cores. This means there are no consequences to mixing up the wires during connection. The following illustration shows an example of how the Geberit ComfortLight devices can be connected in a DALI network.

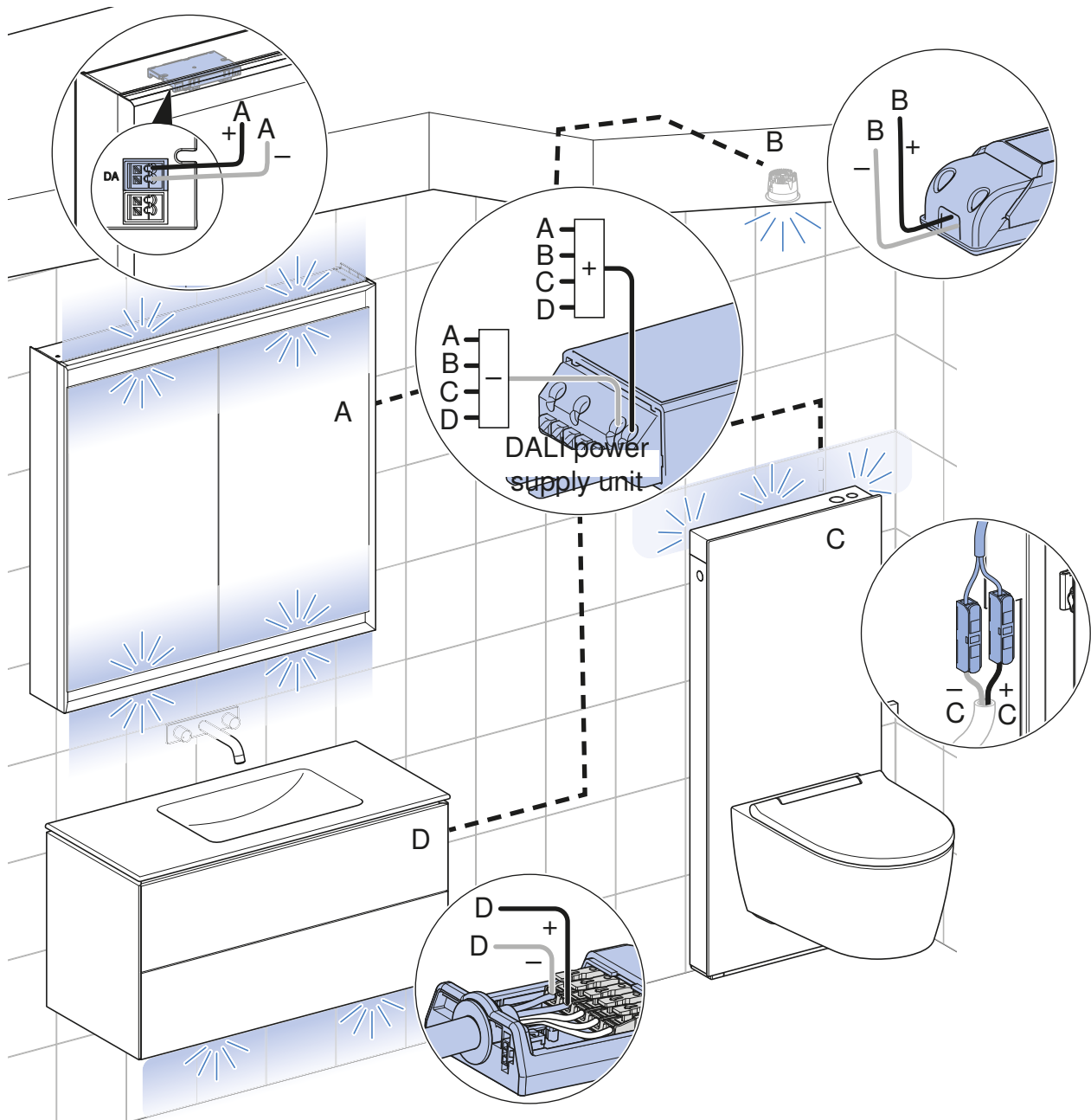


Figure 4: Connection of Geberit ComfortLight devices in a DALI network

- A Geberit ONE mirror cabinet with ComfortLight (always required as master)
The DALI power supply unit can be installed in the mirror cabinet under the cover, for example
- B Geberit LED ceiling spotlight DALI, for ComfortLight
- C Geberit Monolith Plus sanitary module for WC (from year of construction 2023)
- D Geberit power socket element with ComfortLight module, for Geberit ONE washbasin cabinets

4.2 Group assignment and configuration

Geberit ComfortLight devices are already configured by the control in the Geberit ONE mirror cabinets. The group assignment is defined as follows:

Group	Function
09	Colour temperature
10	Brightness of Geberit ONE mirror cabinet
12	Brightness of working light – for example, for Geberit LED ceiling spotlight DALI, for ComfortLight
14	Brightness of indirect lighting – for example, for Geberit ONE power socket outlet element with ComfortLight module

4.3 Configuration of third-party products

Prerequisites:

- DALI Device Type 8 (DT8) for colour control
- Colour temperature range of at least 2000–4000 Kelvin

For third-party products, the configuration must be carried out by a skilled person with DALI experience. The third-party products must be configured as follows:

Group	Function	Configuration
09	Colour temperature	• System Fail Level = 0 [%]
12	Brightness, corresponds to the working light of the mirror cabinet	• Power On Level = 0 [%] • Fade Time = 0,7 [s] • Fade Rate = 44,7 [step/s]

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