



Human Centric Lighting  
makes the day light.



# INSTALLATION AND USER MANUAL

Clock-Module Lightgate MixedWhite  
LGT-MW01-/L/NFC





### Brief general description

In connection with the MixedWhite controller LGC-MW-01/L/plus, the Clock-Module controls the colour temperature and brightness of lighting. It has a RFID transponder and a light-sensitive diode for programming the with a smartphone. A status LED is additionally integrated. The standard parameter set stored in installation the device can be viewed in the smartphone app and adapted to individual requirements.

### Parameterisation of the equipment

The operating parameters are adjusted by means of a smartphone app. The data transfer takes place with near field communication (NFC) or light impulses (LIP).

### NFC

The data transfer takes place with a NFC-capable smartphone. For the transfer, the RFID transponder integrated in the smartphone must be held at a distance of about 0.5 cm from the RFID transponder on the front of the clock module [Pos. 3]. Most smartphones have their transponder integrated on the back side. After successful transfer, the message „Settings were successfully transferred“ appears on the smartphone. Additionally, the LED blinks 20 times in the Clock-Module [Pos. 2] and the lighting system three times as confirmation.

### LIP

The data transfer takes place with a light impulse which is created with the photoflash LED of the smartphone. For the transfer, the photoflash LED of the smartphone must be held at a distance of about 3 cm above the reception diode [Pos. 1] on the front of the clock module. After successful transfer, the LED in the clock module [Pos. 2] blinks 20 times and the lighting system three times as confirmation.

### Automatic mode

In automatic mode, the Lighting is automatically controlled with parameters adjustable in the app depending on time calculated sun position and/or sensors. The parameters and their functions are adjusted directly in the app and the procedure is described in detail in the Operating Instructions.

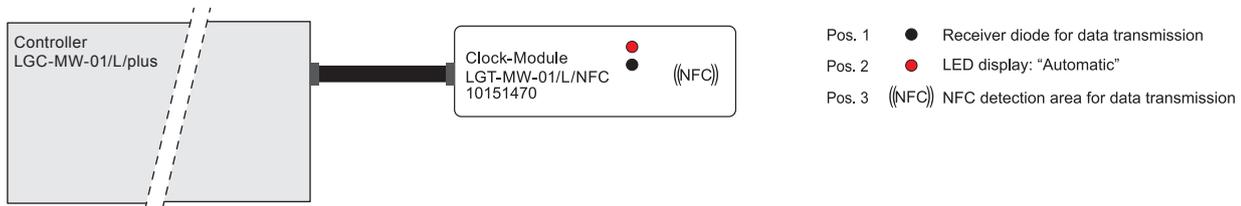
### Manual mode

In manual mode, the operation takes place with 1 or 2 connected wall switches whose function can be adjusted with the smartphone app.

You can switch between automatic and manual mode automatically with push-buttons times or with connected wall switches.

# Connection

## Wiring diagram



## Connection of the components

- Only one controller may be connected with a Clock-Module at any one time.
- The connection is made with an integrated RJ10 socket.
- With corresponding extensions, the line can be expanded to 30 m.
- An additional sensor can be connected with a Y-distributor.

## Assembly

- Use a screw or double-back adhesive tape for assembly.
- In the case of hidden assembly, the clock module must be made re-accessible again for data transmission in the event of possible reprogramming.

## Technical data

| Reference                      | Order number                                       |
|--------------------------------|--|
| LGT-MW-01/L/NFC                | 10151470   |
| Specifications                 |  |
| Supply voltage                 | 9 - 24 VDC SELV                                    |
| Power input                    | max. 15 mA   |
| Ambient temperature $t_a$      | - 20 ... + 60 °C                                   |
| Connection to LGC-MW-01/L/plus | RJ10-plug, RS-485 BUS                              |
| Max. cable length              | 30 m (recommendation 2 x 2 x 0.8 mm <sup>2</sup> ) |
| Dimensions [L x B x H]         | 81 mm x 26 mm x 16.5 mm                            |
| Weight                         | 21 g   |
| Operating mode                 | Automatic mode and manual mode                     |
| Protection class               | IP 20  |

## Accessories

|                  |  |
|------------------|--|
| Package contents | RJ10-cable (20cm), connection adapter                                  |
| Optional         | RJ10-cable in different lengths,<br>RJ10-Y-distributor, RJ10-connector |

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