

passion for electronics **b,a,g,**

● Operating Instructions

Touchpanel MixedWhite TP-MW-01/W/WM

lightgate
MixedWhite

www.BAGelectronics.com





Human Centric Lighting - makes the day light.

Light influences the well-being of people, characterizes their day and night time rhythm and effects activity and the ability to concentrate, as is generally known. "Human Centric Lighting" is the generic term for one of the most promising and high-growth segments in the lighting market. Here a focus is placed on people, their health and the influence of artificial lighting on the sense of well-being. The spectral composition of this artificial light as well as its intensity are oriented to the natural course of daylight, and simulate this to a high degree. These parameters significantly determine whether light has an activating or calming effect on the human organism.



General short description

The Touchpanel is used in combination with the Mixed White Controller LGC-MW-01/L/plus to adjust the color temperature and brightness of lighting systems. The touch-sensitive surface with corresponding touch points contains a light-sensitive diode for programming the system via a smartphone. Two DIP switch rows and one 4-pole connection terminal for power supply and data connection are located on the rear of the Touchpanel. The Touchpanel is supplied with a standard set of parameters. These can be viewed in the smartphone app and adapted to your individual requirements.

Configuring the system

System parameters are set with a smartphone app. Transmission of data is via light pulses generated with the flash light LED of a smartphone. For transmission purposes, the smartphone LED must be held at a distance of approximately 3 cm above the receiver diode (Pos. 4) on the front of the Touchpanel. Following successful transmission, the automatic/manual LED (Pos. 1) flashes 20 times, and the lighting system 3 times, for confirmation.

Automatic mode

In automatic mode the system is controlled via parameters that are settable in the app, in accordance with time/calculated position of the sun and/or sensors. The setting of the parameters and their functions are described in detail directly in the app and in the corresponding operating instructions.

Manual mode

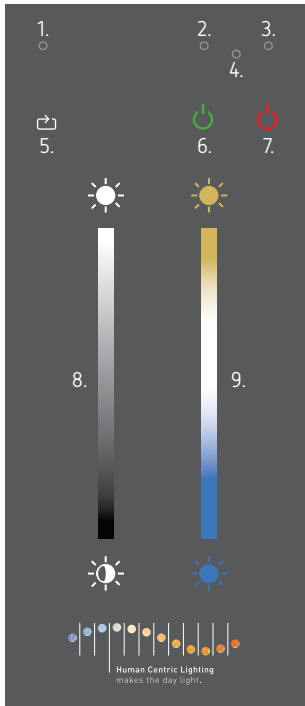
In manual mode, the brightness and colour temperature of lighting can be modified via the corresponding touch points or by pressing one or two connected *wall push-buttons.

Touching the corresponding touch points or wall push-button can switch between automatic and manual mode.

* The function of the wall push-buttons can be set individual with the app

Touchpanel front

Operating panel on the Touchpanel front



- Pos. 1 LED display: "Automatic"
- Pos. 2 LED display: "On"
- Pos. 3 LED display: "Off"
- Pos. 4 Receiver diode for data transmission
- Pos. 5 Touch point: Automatic / Manual
- Pos. 6 Touch point: On
- Pos. 7 Touch point: Off
- Pos. 8 Slider: Brightness
- Pos. 9 Slider: Colour temperature

Note:

Please after power disconnecting and reconnecting the Touchpanel do not touch 15 seconds. There is a calibration.

Operating elements

Pos. 1 LED display: "Automatic"

Lights up if the system operates in automatic mode. LED is off in manual mode. Flashes 20 times if transmission of parameters from the smartphone was successful.

Pos. 2 LED display: "On"

LED lights up if the luminaires are switched on.

Pos. 3 LED display: "Off"

LED lights up if the luminaires are switched off.

Pos. 4 Receiver diode for data transmission

Receiver for programming via the flash light LED of a smartphone.

Pos. 5 Touch point: Automatic / Manual

Switches between automatic mode and manual mode. The selected mode is shown via the "Automatic" LED display (Pos. 1). The LED lights up in automatic mode and is off in manual mode.

Pos. 6 Touch point: On

Switches luminaires on. The operating state is shown via the "On" LED display (Pos. 2). Automatic mode is terminated.

Pos. 7 Touch point: Off

Switches luminaires off. The operating state is shown via the "Off" LED display (Pos. 3). Automatic mode is also terminated.

Pos. 8 Slider: Brightness

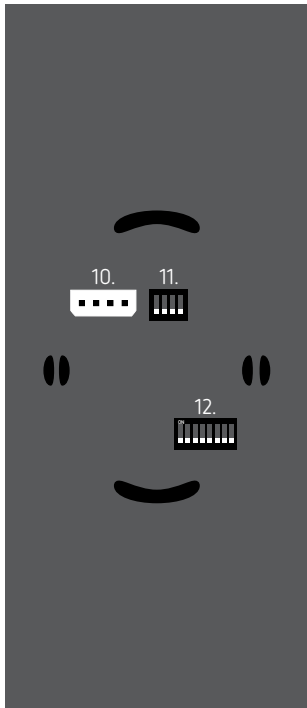
The brightness of the luminaires is set with the slider. The further up the slider is touched, the brighter the luminaires become. The luminaire brightness is reduced by touching in the lower area. Brightness can be modified via the slider. Automatic mode is also terminated.

Pos. 9 Slider: Colour temperature

The colour temperature of the luminaires is set by touching the slider. The further up the slider is touched, the warmer the colour tone of the light becomes. Touching in the lower area modifies the colour tone towards cool white. Colour temperature can be modified via the slider. Automatic mode is also terminated.

Touchpanel rear

Operating panel on the Touchpanel rear

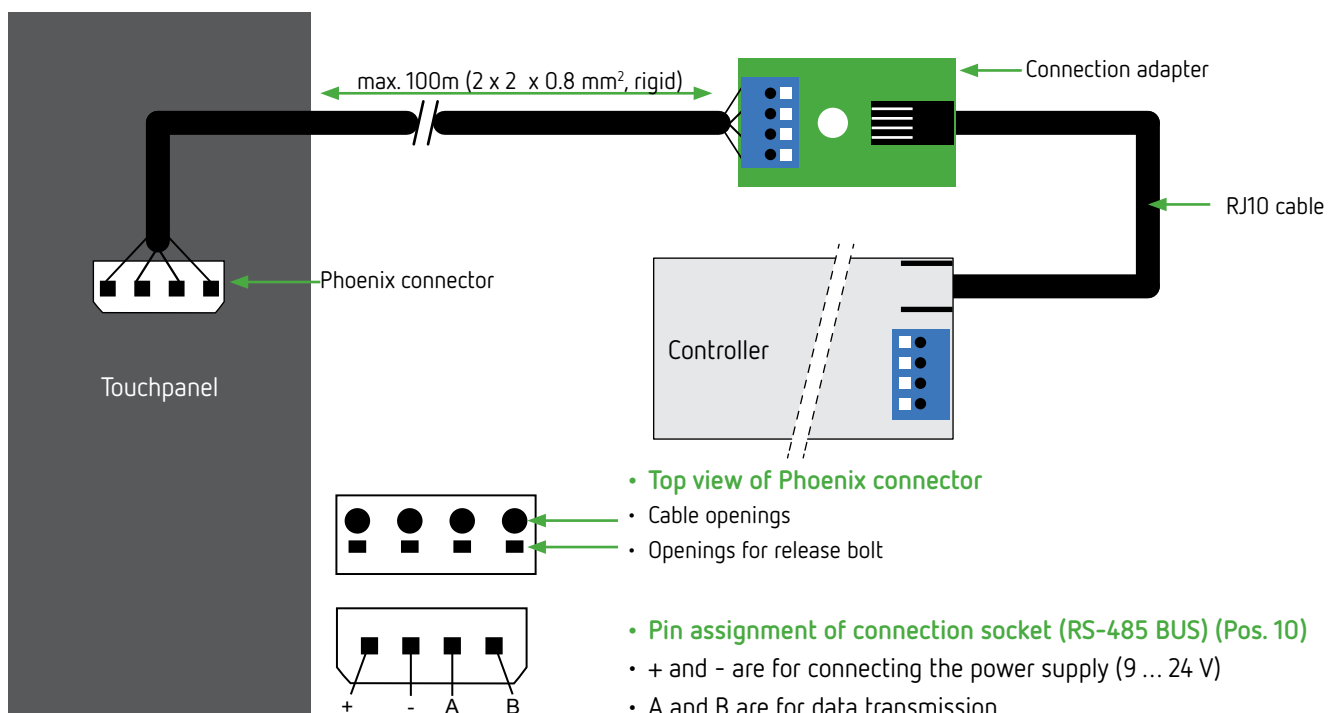


- Pos. 10 Connection socket (RS-485 BUS) version: Phoenix PTSM 4-pin
- Pos. 11 DIP-switch row 1
- Pos. 12 DIP-switch row 2

Connection of components

Proceed as follows to connect the controller with the Touchpanel.

1. Mount the Phoenix connector by inserting the stripped wires.
2. Insert the appropriate side of the Phoenix connector into the connection socket (pos. 10) on the rear of the panel.
3. Wire the connection adapter with the individual cable wires (observe polarity).
4. The adapter is then connected to the controller via the included RJ10 cable.

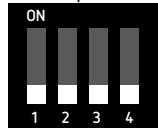


Connection

Function of DIP switch row 1 (Pos. 11)

Up to 3 Touchpanels can be connected to a controller. The following settings are needed on the individual Touchpanel for this purpose:

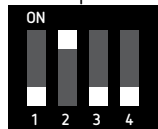
1 Touchpanel



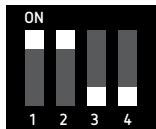
Standard setting
(delivery state)

Touch 1

2 Touchpanels



Touch 1 (Master)

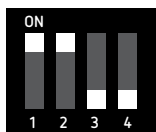


Touch 2 (Slave)

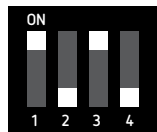
3 Touchpanels



Touch 1 (Master)

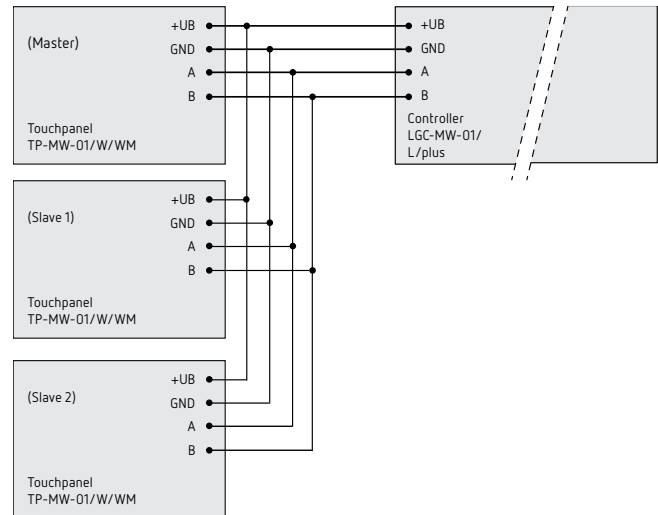


Touch 2 (Slave 1)



Touch 3 (Slave 2)

Wiring diagram

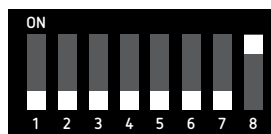


Note:

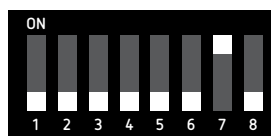
Connecting a Touchpanel to several controllers is not possible.

Function of DIP switch row 2 (Pos. 12)

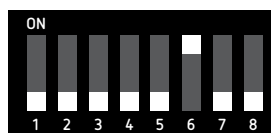
The positions of the DIP switch have the following meanings:



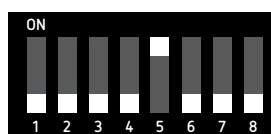
Demonstration mode activated. The 24 hour rhythm will run within 5 minutes.



"Settings" parameter locked



"Switching times and circadian curves" parameter locked



"Set time" parameter locked

Locking specific parameters prevents unauthorised modifications to the basic settings of the controller. The switch positions can be combined at random. All switches are at OFF in the state of supply.

Installation

Installation



The mounting frame included in the scope of supply is fixed to the flush-mounted box with two screws, as with a standard flush-mounted switch insert. The Touchpanel with the frame is clicked with the catches into the corresponding holes (marked red) of the mounting frame.

Technical data

Reference	Order number
TP-MW-01/W/WM	10122139
Spezifikation	
Method of installation	Surface mounting with included mounting ring to standard flush-mounted boxes
Supply voltage	9 - 24 VDC SELV
Power input	max. 30 mA
Ambient temperature t_a	- 20 ... + 45 °C
Max. cable length, controller \longleftrightarrow Touchpanel	100 m (recommendation 2 x 2 x 0.8 mm ²)
Connection method	Plug terminal, max. 0.8 mm ² , rigid, 6 mm, stripped
Dimensions (L x W x H) mit Rahmen	160 mm x 90 mm x 23 mm depending on switch frame type
Dimensions (L x W x H) of assembly without frame, with connector	127 mm x 55,6 mm x 22 mm
Weight	65 g
Operating modes	Automatic and manual mode
Humidity	1 ... 90 % relative humidity, non-condensing
Protection rating	IP20
Scope of supply	Touchpanel, GIRA frame 4-pol., Connection plug (Phoenix PTSM), Mounting frame for flush-mounted box, RJ10 cable, Connection adapter

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