



# Lightgate MixedWhite<sub>plus</sub>

Sensor for light control and presence detection



## Sensor version

Version	Order no.
LGS-PL-01/MW/M	10122138

## Performance features

- Sensor for connection to MixedWhite plus controller via RJ10 connector
- Integrated light sensor for daylight-dependent control and switching of one luminaire group
- The nominal value setting for daylight-detection control is set either via integrated push-buttons, MixedWhite plus Touchpanel or standard wall push-buttons
- Integrated presence detector for automatically switching a luminaire group with optional operating modes
  - Automatic: automatic switching on and off
  - Semi-automatic: automatic switch-off, manual switch-on is required
 Selection of operating mode and setting switch-off delay time via smartphone app
- Compact design and light weight for simple sensor assembly in luminaires

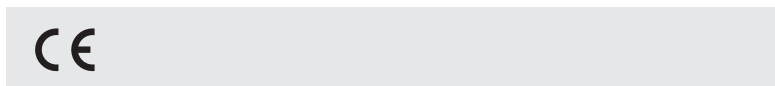
## Applications



## Smartphone app



## Designations





# Lightgate MixedWhite<sub>plus</sub>

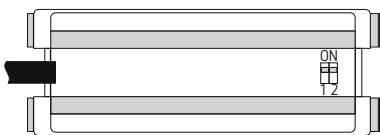
Sensor for light control and presence detection

## General technical data

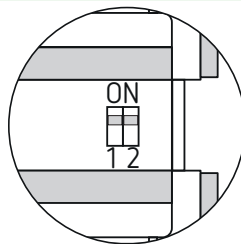
<b>Mains power supply</b>	
Nominal voltage	9 VDC ... 24 VDC
<b>Temperatures</b>	
Ambient temperature	0 °C ... + 65 °C
<b>Connection</b>	
Max. line length (between sensor and controller)	100 m
Pre-assembled connection cable	1.5 m - with RJ10 connector
Luminance measurement range	2 lx ... 400 lx at sensor
Sensor functions	Light sensor, presence detector
<b>Protection rating</b>	
Protection rating of housing	IP20
Content	Sensor, RJ10 distributor, setting tool

## Settable functions via DIP switch

DIP switch	Switch position „OFF“	Switch position „ON“
DIP 1	no function (pre-set value)	no function
DIP 2	<ul style="list-style-type: none"> <li>- Light switches off if the measured light value is 25% above the programmed nominal value for 5 minutes.</li> <li>- Control is implemented with low speed.</li> <li>- After the lighting is switched on the brightness value remains at the „Hand starting brightness“ (→ APP) for 30 seconds before control is implemented.</li> </ul>	<ul style="list-style-type: none"> <li>- Light switches off if the measured light value is 25% above the programmed nominal value for 2 minutes.</li> <li>- Control is implemented with high speed.</li> <li>- After the lighting is switched on the brightness value remains at the „Hand starting brightness“ (→ APP) for 5 seconds before control is implemented.</li> </ul>



Rear view of the sensor with DIP switches



## Setting the nominal value for daylight-detection

To set the nominal value, press one of the buttons on the sensor for at least one second until the status LED flashes. A setting tool for this purpose is included in the content.

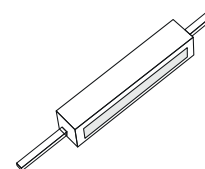
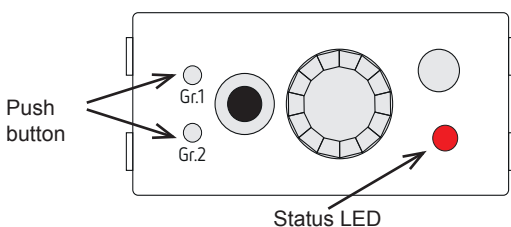
The desired brightness is set using push-button Gr.1 (brighter) and push-button Gr.2 (darker).

Alternatively, brightness can be set with the Touchpanel or connected wall push-button.

If brightness is not changed for 30 seconds the sensor returns to operating mode.

The momentary brightness value is saved and the LED stops flashing.

Note: avoid changes in brightness in the detection area at this time (e.g. from shadows or other light sources)!



Setting tool

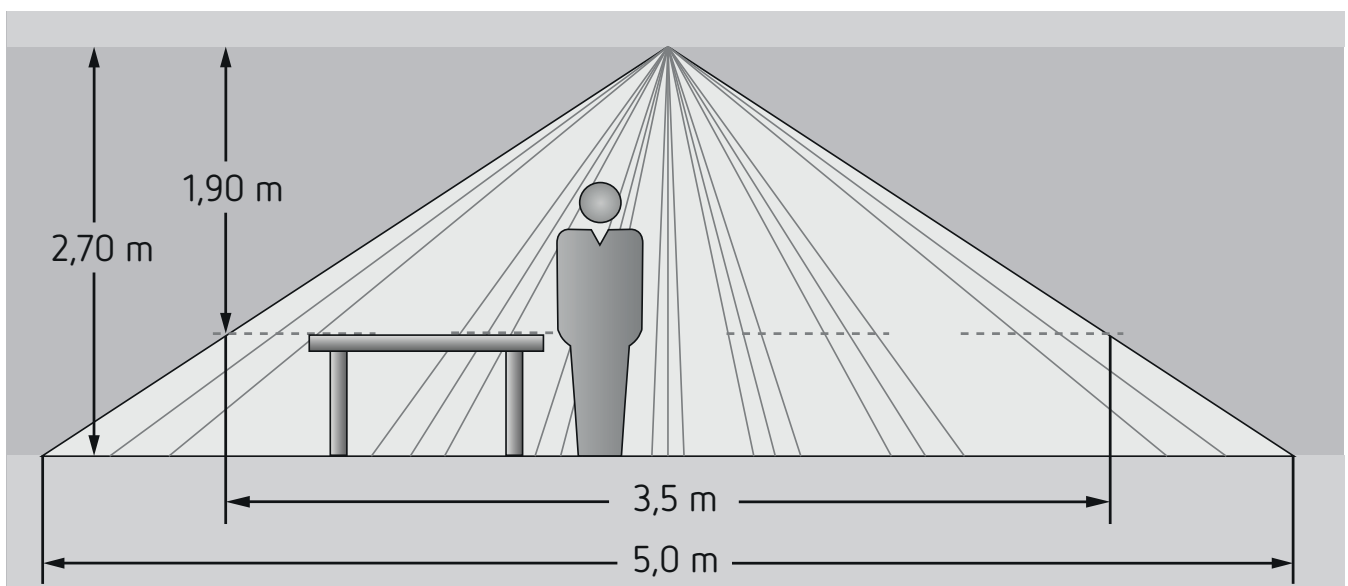


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### Presence detector setting options with the app

Movement Mode	Parameter	Description
„inactive“	-	-
„switch-off only“ (semi-automatic)	„Movement turn-off time“ (1 ... 400 minutes)	The lighting system is automatically switched off if no motion is detected during a settable time period. No automatic switching on occurs with motion detection; the lighting must be manually switched on. The lighting is dimmed accordingly with sufficient daylight, and is switched off again when the daylight-dependent switch-off point is reached.
„Switching on and off“ (automatic)	„Movement turn-off time“ (1 ... 400 minutes)	The lighting system is automatically switched off if no motion is detected during a settable time period. Switching on of the lighting installation with motion detection is carried out automatically under the precondition that no sufficient daylight is available. Switching on and off is effective for all luminaire groups.
	„Movement inverse time“ (1 ... 45 minutes)	<p>With manual switching off via a wall push-button, automatic switching on again is deactivated for the set inverse time period. If movement is detected within the time period the inverse time restarts. After the inverse time has expired the system returns to normal mode, i.e. light is automatically switched on with detection of movement. Manually switching the lighting on is possible after expiry of the inverse time.</p> <p><b>Application example:</b>                      „Movement turn-off time“: 15 minutes                      „Movement inverse time“: 30 minutes                      A presentation is held in a room.                      The light is manually switched off with a wall push-button.                      The sensor detects motion in the room and keeps the light switched off (inverse mode).                      If all persons leave the room, the system remains in inverse mode for 30 minutes and then changes to normal mode. If somebody enters the room the light is automatically switched on.</p>

### Detection range of motion sensor

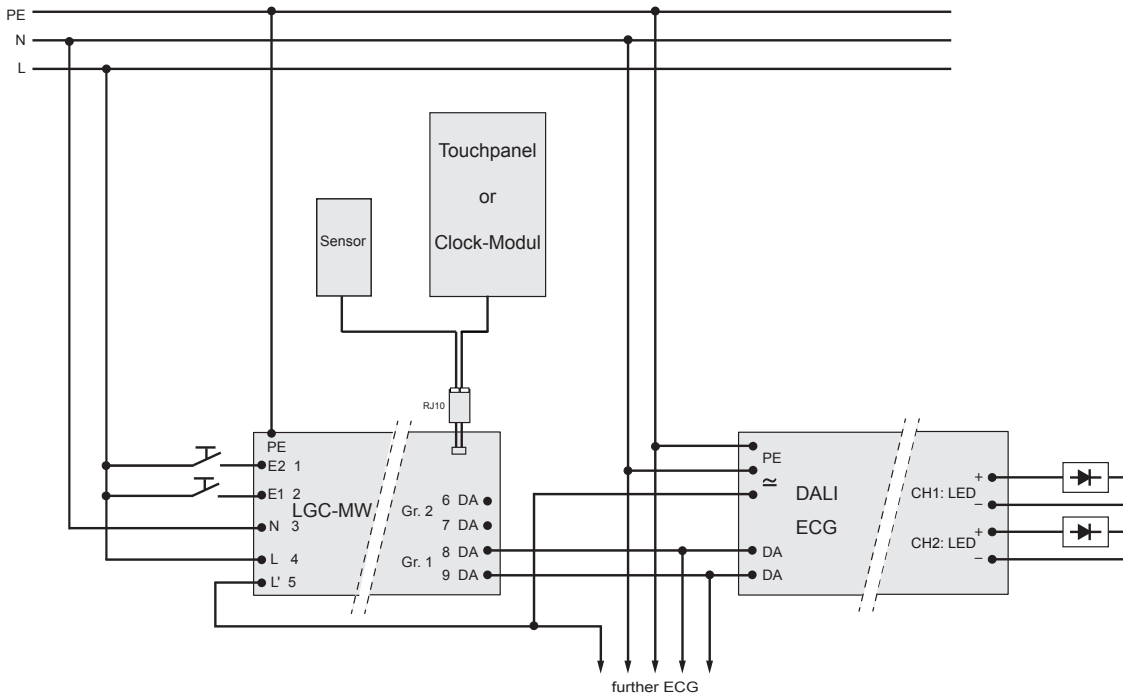




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## Connection diagram



## Dimensions

Model	X	X <sub>M</sub>	Y	Y <sub>M</sub>	Z
	mm	mm	mm	mm	mm
LGS-PL-01/MW/M	44	42,2	20	17,5	19,4
Mounting cut-out	42,5		18,5		

