AGILIGHT® | TRIDONIC
Light It Up signage

Handbook

TALEXXcontrol LNU

TALEXcontrol LNU: PWM dimmer

Perfect visibility – twilightCONTROL

In twilightCONTROL mode, the lighting level of the signage installation automatically adjusts to ambient brightness thanks to the built-in light sensor. This ensures perfect illumination and energy savings.

In this mode of operation, the system is completely switched off during the day. In the evening, the signage switches on automatically, up to the maximum settable level. The high lighting level at dusk ensures perfect visibility, significantly enhancing the advertising effect. As it grows darker, brightness is reduced to the lowest settable level, thereby substantially improving signage legibility during the night. At daybreak, the lighting is again adjusted to its maximum level, in order to optimise visibility. As soon as there is sufficient ambient brightness the sign is switched off.

__ Perfect visibility even on overcast days
__ Potential energy savings of up to 40 %
__ Reduction of light pollution in accordance with national directives and laws
__ Switches on and off depending on ambient brightness – no clock required
__ Increased LED service life

TALEXcontrol LNU M

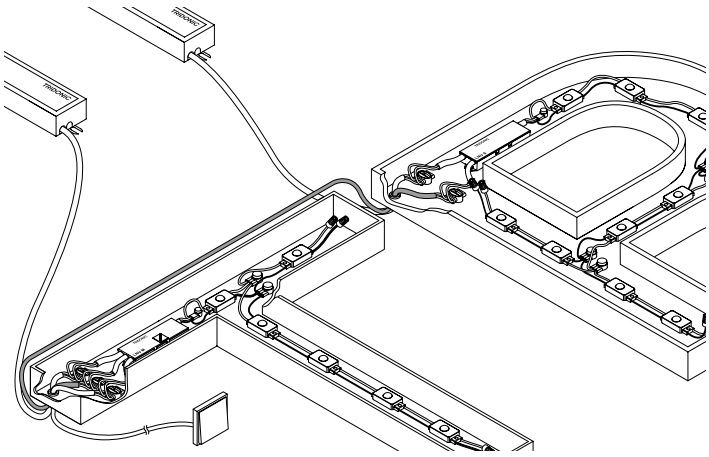
With twilightCONTROL

Without twilightCONTROL – bleeding effect

Easy dimming via touch switch – switchDIM

In another mode of operation, the so-called switchDIM mode, the lighting level of the LEDs and/or the signage installation can be changed by means of a connected touch switch.

__ Lighting level of signage installation adjusted to meet national laws and directives
__ Simple system for dimming LEDs for general-lighting applications such as cove lighting, shelf lighting, etc.



Quick and easy installation – no external light sensor – no programming

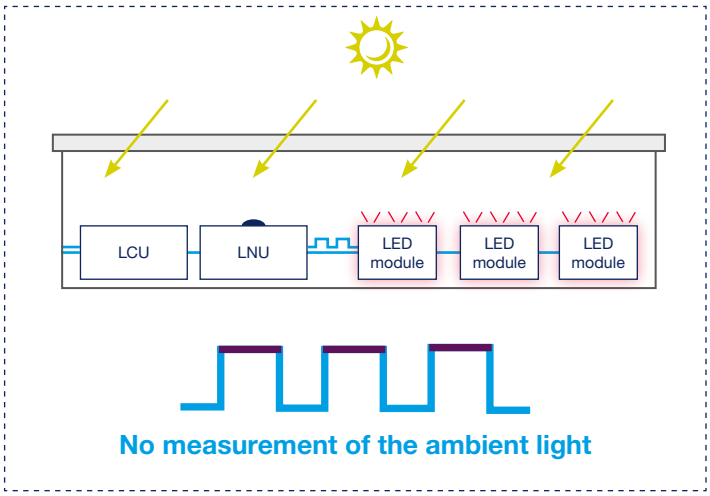
The TALEXcontrol LNU PWM dimmer with a built-in light sensor is installed in the signage installation so as to be invisible for the observer.

The dimmer is simply connected between the LED Driver and the LEDs and does not need any programming.

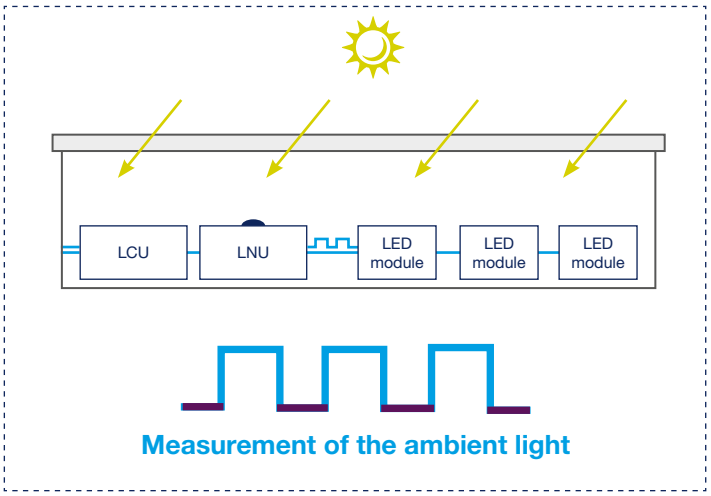
__ No installation effort required for light sensor
__ Easy retrofitting of existing installations

Measurement of the ambient light

The integrated light sensor of the LNU allows measuring the ambient brightness. The LNU works with a PWM signal of 495 Hz. Pulsing light at frequencies above 120 Hz are not visible to the naked eye. During the ambient light measurement, the LED's are "off" – while the LED's are "on" there is no measurement.



No measurement of the ambient light



Measurement of the ambient light

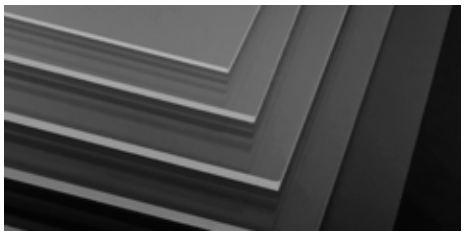
Min–Max Level

__ The Max-Level can be adjusted to the maximum desired brightness of the sign
__ The Min-Level can be adjusted for minimum desired brightness in darkness.
__ By adjusting Min-/Max-Level an optimum perceived contrast can be achieved

The factory default setting for Min-/Max Level ensures perfect sign perception in the vast majority of applications. If an individual setting is required to optimize for the application, the installer has the option to change these Min-/Max-Setting.
The max lighting level at dusk ensures perfect contrast and perception, significantly enhancing the advertising effect. As it becomes darker during day, brightness is reduced to the min level, thereby substantially improving signage legibility during the night, avoiding bleeding and excess outshine.

Sensitivity levels

The sensor needs to know about the transparency of the acrylic as it not only dampens and blends the light coming out of your signage, but also mutes outside light measured by the sensor. The factory default sensitivity setting ensures perfect sign perception in the vast majority of applications. If the dimming reaction is not optimal (signage dims too low, switches off too dark) the sensitivity can be adjusted.



High: recommended for light transmission rates of the acrylic from 3–12 %.

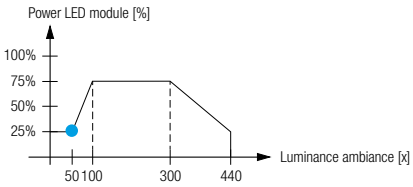
Normal: recommended for light transmission rates of the acrylic from 13–25 %.

Low: recommended for light transmission rates of the acrylic from 26–50 %.

TALEXcontrol LNU: PWM dimmer

Perfect Illumination during a day with energy savings

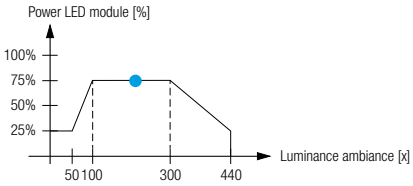
Ambient light 50 lux



Time

Energy consumption

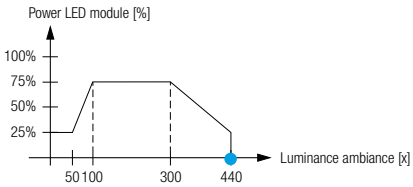
Ambient light 220 lux



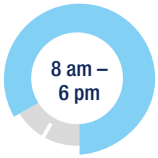
Time

Energy consumption

Ambient light 440 lux

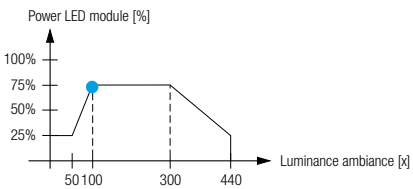


Time



Energy consumption

Ambient light 100 lux



Time

Energy consumption

Support and advice from a single source
We will help you to create messages out of light
that are unbeatable in terms of economy and functionality.

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Light you want to follow.