

TALEX(control LNU

12 V DC / 24 V DC PWM dimmer











etter standard

Letter mini

Lightbox standard

Lightbox slim

Light contour

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

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

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.

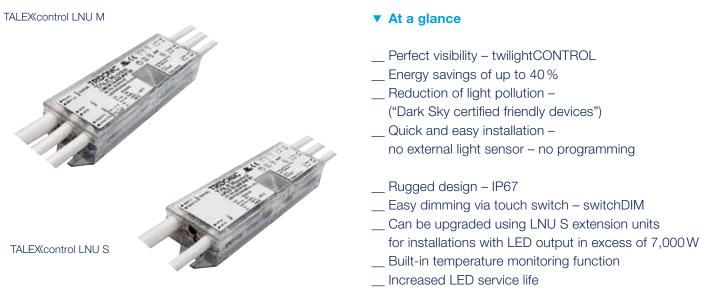
- Lighting level of signage installation adjusted to meet national laws and directives
- __ Simple system for dimming LEDs for general-lighting applications such as cove lighting, shelf lighting, etc.



With twilightCONTROL



Without twilightCONTROL



- __ Customised settings possible via LNU I service unit
- __ 5 year guarantee



TALEXcontrol LNU I

Technical features	LNU M	LNU S	LNU I	
Input voltage	12 / 24	12 / 24 VDC		
Max. input current	15A		USB – 50 mA	
No. of output channels	3×PWM		Not applicable	
DC voltage range output	12 / 24 VDC		Not applicable	
Output current	max. 5 A / channel		Not applicable	
PWM frequency	495 H	Not applicable		
Voltage drop	150 mV	150 mV max.		
Ambient temperature ta	-40 +	0 +50 °C		
Storage temperature	-40 +	−40 +85 °C		
Housing temperature t _C	max. 85 °C		max. 65 °C	
Dimensions L×W×H	139×40×18.5 mm		48.5×53×13mm	
Protection rating	IP67		IP20	
Input voltage range switchDIM	100-277 VAC 50/60 Hz	Not applicable	Not applicable	
Dimming range twilightCONTROL	0-98%**	0-98%*/**	Not applicable	
Dimming range switchDIM	0%/0.1-100%	0%/0.1-100%	Not applicable	
Marks of conformity	CE, ENEC, cRUus, IDA	CE, ENEC, cRUus	CE	
Max. no. of LNU S per LNU M	Not applicable 19		Not applicable	
Service life t _a +55 °C	50,000 h 50,000 h		50,000 h	

** Maximum level depends on the LEDs used and the mounting situation.

TALEXcontrol LNU PWM dimmer	Order No.	Designition	
LNU M 12-24 V IP67 G1	28000018	Master unit	
LNU S 12-24 V IP67 G1	28000050	Extension unit	
LNU I IP20 G1	28000163	Service unit for programming LNU M and LNU S	

Energy savings

Sample calculation:

We assume a signage installation with an output of 150W, which is operated 10 hours a day. This calculation is based on an electricity price of EUR 0.10/kWh.

One signage installation is operated without dimming, the other is dimmed to 50 W for eight hours each day.

Signage installation with TALEX/chain CRYSTAL, undimmed, without control

Constant output of 150 W, 10 hours/day, 365 days/year

10 × 0.15 kW × 365 = 547 kWh/year

Energy costs: 547 × EUR 0.10 = EUR 54.70 Signage installation with TALEX/chain CRYSTAL, controlled by TALEX/control LNU

Operated daily for 2 hours at 150W, dimmed to 50W for 8 hours

(2 × 0.15 kW + 8 × 0.05 kW) × 365 = 255 kWh/year

Energy costs: 255 × EUR 0.10 = EUR 25.50

In this sample calculation, the annual savings amount to 292 kWh, EUR 29.20

This product is certified and registered as an "IDA friendly device". IDA is the recognized authority on light pollution. Founded in 1988, IDA is the first organization to call attention to the hazards of light pollution, and in 26 years of operation its accomplishments have been tremendous. Tridonic is proud to support IDA.



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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