

# Enertex® KNX HV Dimmer

Perfect Dimming in smallest footprint

The perfect dimming experience – Smooth dimming without flickering with extended dimming range.



The lamp correction method (LKV) detects and corrects the finest irregularities of the lamps to ensure smooth and harmonious dimming transitions across the entire dimming range.

In addition, the selectable dimming curves offer the freedom to customize the dimming behavior exactly to your preferences.



Quality made in Germany

The large 8 channel version requires only 6 MW and thus sets new standards in terms of space saving. The smaller 4 channel version, with an installation width of 4 MW, is likewise among the most compact in its class.

The unique lamp correction method, low-light stabilization, and selectable dimming curves eliminate flickering and makes seamless, flicker-free and harmonious dimming possible – even at lowest brightness values. Additionally, inhomogeneities are corrected and the dimming range of lamps is extended.



# enertex<sup>®</sup> KNX HV Dimmer

- Up to 250 W per channel
- Suitable for LED lamps, HV halogen lamps, and LV halogen lamps with transformer/ECG
- Support for leading edge and trailing edge phase control
- Optimum dimming behavior over the widest possible dimming range, even with problematic LED lamps, thanks to the use of innovative dimming methods: lamp correction method and low-light stabilization method.
- Smooth and harmonious dimming transitions thanks to adaptive lamp correction method (LKV) and additionally selectable dimming curves
- Low-light stabilization method (SSV) ensures stable, flicker-free light at heavily dimmed brightness levels
- Lowest losses per channel:  
Standby <0.2 W, full load <2 W
- Energy and electricity cost meter per channel with accurate active power measurement in accordance with accuracy class A (2%)
- Helpful commissioning and diagnostic functions via display and buttons on the device
- Automated commissioning with load detection and lamp measurement, as well as final self-diagnosis of the dimming capability of the lamp
- Overload, overvoltage, short-circuit and temperature protection with alarm message
- Parameterizable lamp protection
- Parallel operation of up to 4 channels with 1000W total power
- Extensive application: Time-controlled dimming, sleep and wake-up light, staircase lighting function with switch-off warning, timers, scenes, bit scenes, blocking function, extensive logic functions

## Specifications of variation 2000W/8x:

- 8 dimming channels
- DIN rail mounted device with space-saving 6 MW installation width

## Specifications of variation 1000W/4x:

- 4 dimming channels
- DIN rail mounted device with space-saving 4 MW installation width

\*Errors and technical changes reserved.  
Figures and photos may vary.

## Features

### With the innovative low-light stabilization method (SSV), light becomes strong in its weakest moments.

This innovative technology ensures extremely precise and stabilized control of the lamp, perfectly synchronized with the mains frequency. The result is stable, flicker-free light, even at heavily dimmed brightness levels, where the human eye is particularly sensitive to brightness fluctuations.

Fluctuations in brightness of a flickering lamp: **WITHOUT** correction



Flicker-free, constant brightness of the lamp: **WITH** Enertex<sup>®</sup> SSV



Another problem with many dimmers is LED Ghosting. This occurs due to a small amount of electrical current, that continues to flow through the LED lights even when they are switched off. With the Enertex<sup>®</sup> KNX HV Dimmer, a special control system has been designed to significantly reduce the residual currents. **Lamps are therefore completely dark when switched off, LED Ghosting will be eliminated.**

### The commissioning automatically determines optimal dimming parameters for each lamp.

```
One-Touch-Comm. 9714
Max.: 12.5 W
P.F.: 0.87 cap
Recom.: trail. edge
Min. drive: 13 %
Max. drive: 95 %
> Test Dimming
```

Subsequent fine-tuning and checking of the dimming result is possible directly via the display, without the ETS software.

The device has an integrated energy and electricity cost meter. With that energy consumption can be monitored, leading to savings on energy costs



Discover the unique capabilities of the Enertex<sup>®</sup> KNX HV Dimmer – compact, powerful and easy to use!

