



I-tec Shading

SHADING WITH SELF-SUFFICIENT ENERGY

The energy which the window requires and uses, should be created by the window itself. The first product which follows this motto is the new motor driven integrated blind, Venetian blind or Duette®.

ENERGY SELF-SUFFICIENT PHOTOVOLTAIC SUN PROTECTION

All Internorm windows with integrated blinds can be equipped with motor driven shading without external power source. The energy is won directly at the window through an integrated photovoltaic module in the cover which feeds the electro motor self-sufficiently. The power is saved in a battery and can be used when required. Permanent charging of the battery takes place already with **diffuse day light**.

THE ADVANTAGES

No energy costs arise, no extra building measures or chiselling work is required as no electrical connection is necessary. Thus, this sun protection is especially well suited for refurbishments as often there is no power connection available. I-tec shading is functional straight after the window installation and can be retrofitted with almost any Internorm windows with integrated blinds. It is controlled via bi-directional wireless control – several blinds, Venetian blinds or Duette® blinds can be controlled in combination.

AUTOMATIC FUNCTION

Upon request, the blind can be operated in automatic mode with this function. Thereby, higher energy efficiency combined with more comfort can be achieved. The automatic function allows automatic opening and closing of the blind at sunrise and sunset. The automatic operation also prevents overheating of the rooms. By measuring the temperature and solar radiation the blind closes automatically before the room temperature rises too high.



Styles/windows

Timber/aluminium

UPVC/aluminium

studio



HV 350



KV 440



KV 240

home pure



HV 350



KV 440



KV 240

home soft



HV 350



KV 440

ambiente



HV 350



KV 440

I-TEC SHADING

- Easy fitting and can also be retro-fitted
- Energy self-sufficient (no power connection required)
- Functioning also in part-shade, diffuse light, on north-facing windows, under the eaves ...
- Operation directly on the window or via handsender
- Operation of 4 different groups available
- Can be controlled via SmartWindow app
- Bi-directional communication
- Pleasantly fast speed of the blind
- "Smooth drive" - blind approaches end position gently
- Blind does not stop on BUFFER (blind stops a few steps before the end to save mechanical components)



FUNCTIONS

▪ Lock/unlock

User can lock blinds so that no authorised person can find the blinds, program or interfere with them.
The blind becomes so-to-say INVISIBLE.

▪ i-position

This enables to assign a personalised position to each blind and to start it via press of a button.

▪ Repeater function

The blinds communicate with each other and pass on commands. The blinds in a house with several floors can be reached and operated from anywhere.

Example: Little Johnny on the first floor does not want to get up in the morning → Daddy is in the kitchen on the ground floor (on the other side of the house) and opens the blinds for little Johnny to show him that the sun is shining already and that it is time to get up.

ELECTRONICS

▪ Stand-by

Very low stand-by: 150 µA = 0.000150 A → Output: 0.0005 W
(The electronics could work from the battery - without charging - for 1½ years)

SELF-SUFFICIENT AUTOMATION

▪ Day/night recognition

I-tec shading **recognises dawn** automatically and **opens the blind**.
Likewise, I-tec shading **recognises the sunset** automatically and **closes the blind**.

▪ Sun protection or solar gain

I-tec shading **recognises** when the sun should help **with heating** and keeps the blind open even in brilliant sunshine.
(Winter function)
I-tec shading **recognises** the **need for summer shading** and closes the blind in intensive sunshine. (Summer function)

- Adjusting of the required automatic functions in the setup menu
- Switch on/off with remote control
- Synchronisation of groups by activating in the group
- Operation with remote control has always priority
- No annoying permanent moving of blind after manual operation

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