



Blind control

for contemporary professional, academic, and user settings

System intelligence for integrated façade and shading logic

Many shading systems function with fixed lux thresholds, responding sensitively to short-term variations. This results in unnecessary adjustments and erratic performance, particularly under shifting cloud cover. The onework blind control system computes a dynamic brightness value based on current lighting conditions. Factors such as cloud cover, sun position, facade orientation, and occupancy are assessed collectively. Facade, zone, and occupancy logics are calculated centrally and executed consistently. The outcome is a smooth, predictable, and stable shading performance.

Automated shading integrated within a comprehensive room automation system

Shading is not regarded in isolation. The position of the sun, cloud cover, usage, and object-specific parameters are all incorporated into a central control architecture.

The control intelligence is situated at the system level—neither within the drive nor the gateway. The blind control is seamlessly integrated into the room automation, functioning in harmony with lighting and climate controls. This fosters a cohesive system logic across various trades rather than a fragmented facade control.

A solid foundation for automation

The shading logic is founded on a central, scalable platform. It is engineered for long-term operational stability and object-specific parameterization. The quality of the system and reproducible behavior are of utmost importance. There are no experimental thresholds; instead, the system relies on calculated decisions.



System benefits

Enhanced cloud cover detection in lieu of fixed lux thresholds

- Dynamic brightness values rather than fixed thresholds
- No negative reactions in winter sunlight

Consistent system performance rather than frustrating fluctuations

- Driving movements should be executed only when functionally necessary
- Definable in a manner specific to both the user and the object

Energy harvesting via authentic spatial intelligence

- Usage and attendance are systematically integrated
- Daylight is utilized strategically to produce energy

Reproducible shading characteristics

- Identical conditions yield identical reactions
- Design and operationally plannable

Integrated automation architecture rather than isolated trades

- Shading is an integral component of a coherent system logic.
- No independent facade regulation.

Functionality and system logic

Dynamic brightness evaluation

A computed brightness value supersedes fixed limit values. The control system considers actual lighting conditions, cloud cover, and object-specific parameters.

Stabilized driving algorithms

Movements are initiated solely when functionally required. Unnecessary cycles are circumvented.

Energy-efficient daylight integration

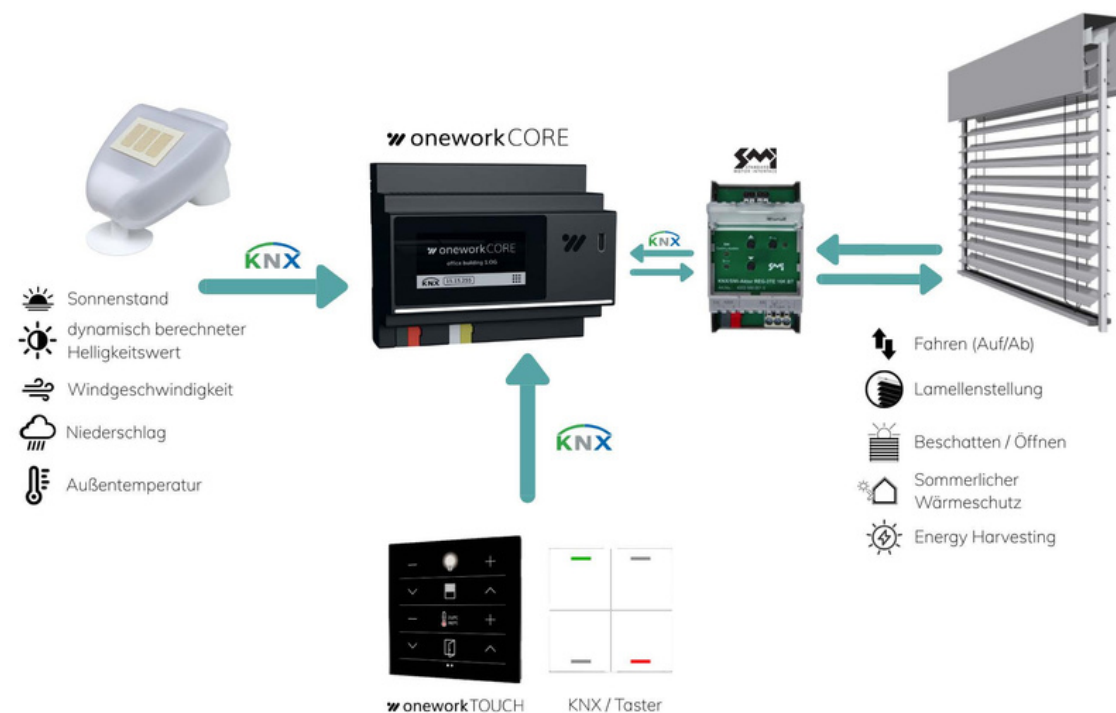
The orientation of the louvers and the extent of their opening are utilized for energy optimization while maintaining comfort.

Usage-sensitive parameterization

Spatial information is integrated into the shading strategy. Energy harvesting arises as a component of the system logic.

System architecture and technical integration

Weather stations, sensors, and control devices interface with the central automation platform through KNX. Control is facilitated via KNX-SMI gateways. The control intelligence is situated at the system level.



Common areas of application

- Office and workplace environments
- Educational and research organizations
- Public edifices and governance
- Healthcare and wellness facilities
- Industry and manufacturing
- Retail

Technical highlights

- Dynamic, inter-zonal shading architecture
- Vendor-neutral integration
- Local, deterministic operation
- Scalable for intricate facade structures

Do you have any inquiries?

We would be pleased to assist you and eagerly await your response.

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