Product launch Extension for blind control BX8 KNX

**Making sun shading even smarter**

*Solar shading automation can fulfil many tasks: It has a positive influence on the ambient climate by regulating the heat input. It ensures optimum lighting conditions, protects against glare and prying eyes. And it protects blinds and awnings from wind, rain and frost damage. If a good balance of energy efficiency, comfort and security is to be realised in a building, there is no way around a shading control system. This smart technology is now also available as separate extension module BX8 KNX from sun shading specialist Elsner Elektronik*

The BX8 KNX series installation module extends the sun protection in the KNX system and gets the best out of blinds, awnings and roller shutters, while it occupies just three units on the DIN rail. The shading automation system can thus be extended by eight intelligently controlled façades during the planning stage or at a later date, regardless of the type of actuators and weather sensors used in the project.

The shading extension takes over the façade control and takes the building situation and type of shading into account. In the KNX application, conditions such as façade orientation and slat width are initially stored. Each of the up to eight façades can then be controlled individually according to brightness and the position of the sun. Both the blind slats and the shadow edge are adjusted to the position of the sun, thus ensuring optimum daylight utilisation. Direct, dazzling light and heat are shielded and the sun only shines as much into the room as desired.

In order to utilise the free solar energy in the cold season, the room temperature is taken into account in the module. The sun shading is then only lowered when the desired ambient temperature is reached. Global radiation values from a pyranometer can also be included if this heat indicator is to be used in addition to brightness.

Rain, wind and outdoor temperature are analysed by the BX8 KNX to protect the blinds. Damp, rotting awning fabric, slats torn off by the wind or tension cables torn by frozen running rails: such expensive damage is avoided by the shading control system.

The shading can be linked to times in order to adapt even better to the daily and living rhythm of the user. The event, weekly and calendar timers can be used in the internal façade automation system or for other bus users. The automation can thus be adapted to the project, from daily opening and closing of the shading to seasonal time programmes. At dusk, the sun shading automatically becomes a privacy screen.

The BX8 KNX module turns the weather, time and location data available in the KNX system into intelligent automatic commands for the sun shading system. Manual operation has also been considered: the shading control has nine digital inputs that can be used to integrate push-button commands for switching, drive control, scenes or other value encoders into the KNX system. This means that the user's desire for shading that deviates from the automatic system can be accommodated at any time.

Further information about the BX8 KNX blind control extension can be found on the Elsner website at <https://www.elsner-elektronik.de/en/bx8-knx.html>.

## Images:

*Text: The BX8 KNX blind extension for DIN rail makes sun shading smart.*

*Source: Elsner*

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Elsner\_BX8-KNX\_left\_srgb

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