

HELLA



**PROTECTION AND
SAFETY**

Roller shutters

CONTENTS

Good climate A room to feel good in	4
Front-mounted roller shutters Perfect integration into the façade	6
Plaster base systems For integration into plaster façades	10
Installation systems For existing shafts	12
Top-mounted systems Top-mounted elements THERMplus	14
Guide rails Always one step ahead	16
Profiles Standard colors Perfection the details	18
Quality in the details Technical highlights	20
Smart Home System ONYX	22
The world of HELLA Premium quality for generations Sustainability at HELLA From a single source	28





GOOD CLIMATE

A room to feel good in

Roller shutters fulfil important functions, such as protection against light, heat, cold and noise. They act as an additional layer of thermal insulation, which makes them an efficient "climate buffer". As a result, roller shutters save energy,

reduce the cost of heating and cooling and create a feeling of comfort in the room. In addition, roller shutters from HELLA can effectively improve burglary protection.

HIGHLIGHTS

- heat, cold and noise remain outdoors
- less heating in winter
- less cooling in summer
- up to 30% less energy loss
- optimum darkening for better sleep

Less heating in winter

When the roller shutter is closed, an air cushion is created in front of the glass, which prevents circulation of air. As a result, the warm air stays inside the living area and the cold air is kept outside. Heat loss through the window is reduced by up to 30 per cent, which in turn significantly reduces heating costs.

Less cooling in summer

Roller shutters shield up to 85 per cent of the solar energy and often replace an air-conditioning system. The air circulation between the roller shutter and the window largely eliminates heat transfer. Modern daylight roller shutters still allow pleasant daylight to enter the room.



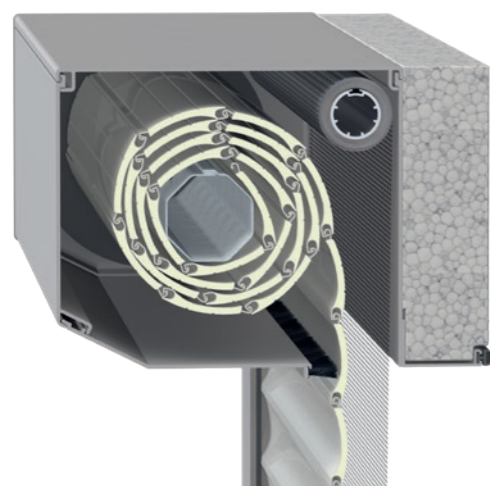


FRONT-MOUNTED ROLLER SHUTTERS

Perfect integration into the façade

Thanks to the different box shapes, front-mounted roller shutters from HELLA perfectly match with the architecture of a building. Because the intelligent technology is hidden in remarkable small boxes, the front-mounted roller shutter is not visible from the interior. The front-mounted roller shutter nova in an extruded aluminium box is available in

a angled, square or round shape. Installation is easy: for a self-supporting installation the boxes are fixed directly onto the guide rails. The models in the nova series provide perfect darkening, optimum privacy, sun and heat protection as well as protection from the weather and cold. The products are also available with an integrated insect screen.



nova
front-mounted
roller shutter

All elements are optionally available with an insect screen and additional insulation.

Box types



nova front-mounted
roller shutter
Angled.



nova front-mounted
roller shutter
Square.



nova front-mounted
roller shutter
Round.

Burglar-resistant Top-Safe front-mounted roller shutter

Reliable protection against uninvited guests and maximum convenience when operating – the Top-Safe is a roller shutter that offers safety at the push of a button. It cannot be forcibly opened or dismantled from the outside when closed. The safety roller shutter profiles of the square box are made of extruded aluminium. The Top-Safe roller shutter also has reinforced guide rails that protect against dismantling.



Front-mounted Top-Safe roller shutter
Burglar-resistant roller shutter.



Front-mounted roller shutter with solar package
with solar drive.

Front-mounted roller shutter with solar package

The nova front-mounted roller shutter extruded is also available with a solar package. The package includes the solar panel, battery and motor. No power supply is required. That makes you independent, saves energy and makes a valuable contribution towards protecting the environment. The built-in solar panel generates electricity and charges the battery all year round, even without direct solar irradiation. It is controlled via a wall-mounted or hand-held radio transmitter. The angled, square or round roller shutter box with solar package is optionally available with an integrated insect screen.

HIGHLIGHTS

- saves energy
- no power costs
- also works during a power failure
- particularly quiet operation

Safety components



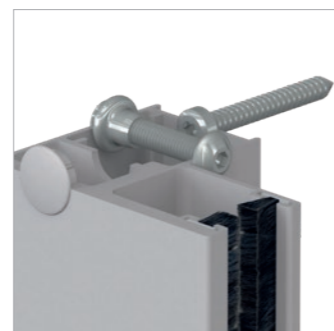
Lift-up protection
Locks the curtain in the lower end position.



Box reinforcement bracket
Prevents the box from being dismantled and opened.



Reinforced end rod
The steel insert makes it difficult to break open the roller shutter with a crowbar.



Safety guide rail
With increased wall thickness and inaccessible mounting screws.



PLASTER BASE SYSTEMS

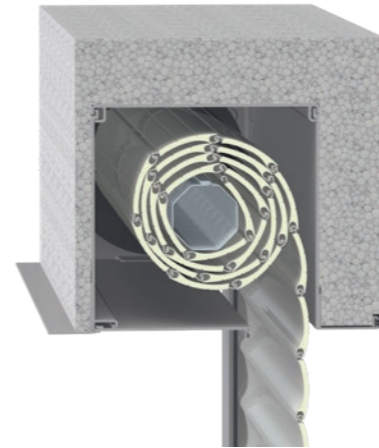
For integration into plaster façades

The nova front-mounted roller shutter is also available as a plaster base element. It is installed in the wall and thus no longer visible. The box of the roller shutter is enclosed in a "plaster base". This has great advantages: the box can be perfectly plastered over after installation in the lintel opening and can be invisibly and seamlessly integrated into the façade. Additional insulation of the box and guide rail prevents thermal bridges and loss of energy.



nova front-mounted roller shutter, square
With plaster base, aluminium extrusion, optional insect roller screen.

Additional insulation possibilities



Box
Available with insulation in 20, 30 or 40 millimetres.



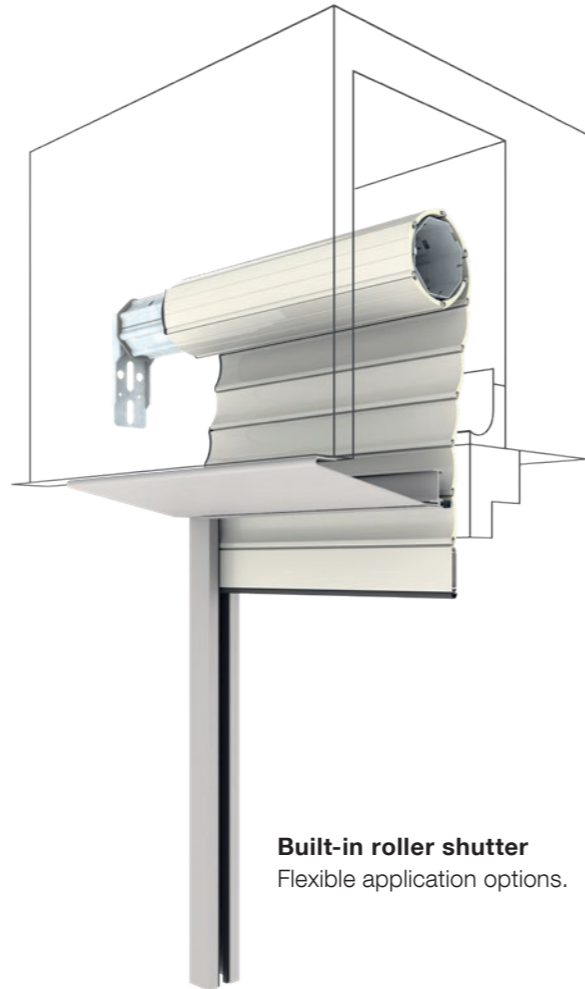
Guide rail
Available with insulation in 20, 30 or 40 millimetres.



INSTALLATION SYSTEMS

For existing shafts

Built-in roller shutters are beneficial for architects and builders in several ways: not only do they save time and costs during construction, they also reduce the need for maintenance later on. As standard, HELLA installs a telescopic shaft that guarantees easy servicing. The structural advantages of uncompromising integration of sun protection into the wall are numerous. There are no weak spots, the boxes and guide rails are installed flush, the energy efficiency and versatility of the solutions are impressive. Maintainable from the inside and outside, with an integrated insect screen, toggle catches and intelligent controls – built-in roller shutters can do a lot and are unrivalled as "climate buffers".



Built-in roller shutter
Flexible application options.

Built-in roller shutter

Built-in roller shutters offer flexible application options and are available in a wide range of profile types. The curtain is locked and fixed to the shaft with rigid shaft connectors. The end rod is filled with weighted steel. The built-in roller shutters can be used in different ways, as right-hand or left-hand roller shutters for external inspection or as right-hand roller shutters for internal inspection. Built-in roller shutters can also be retrofitted in existing shafts and are optionally available with various insect screen systems. Thanks to the large selection of components that are coordinated with each other, they can be integrated into any structural conditions.



Shaft roller shutter

The shaft roller shutter is the ideal product for renovations. Installation in an existing shaft is simple and uncomplicated. Here, the bearing can be attached to the guide rail either as a left-hand or right-hand roller. A height-adjustable inspection cover is available as an option. The shaft roller shutter also provides special noise protection: as the shaft bearings are located on the guide rails, the amount of noise entering the living space via the shaft is minimised.



Shaft roller shutter
Ideal for renovations.



Storage
Can be installed as a left- or right-hand roller, and attached to the guide rail.

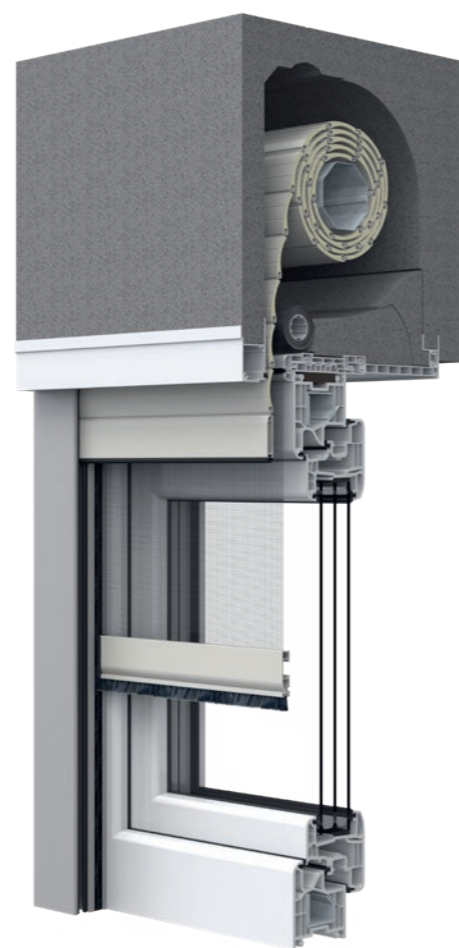


TOP-MOUNTED SYSTEMS

Top-mounted THERMplus elements

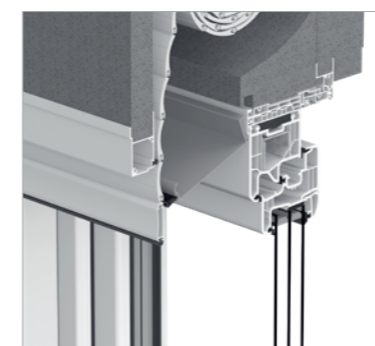
HELLA offers a wide range of top-mounted boxes. When it comes to heat and sound insulation, airtightness and statics, the TOP FOAM represents an excellent solution. The TOP FOAM consists of add-on elements made of non-shrink polystyrene that combine the best insulation values with maximum flexibility. This is not

only shown by the different box heights and box depths for all installation situations, but also by the compatibility with sun blinds and insect screens. Be it a roller shutter, outdoor blind or insect screen, any requirement can be incorporated. The connection to the window via clip technology makes the boxes extremely easy to install.

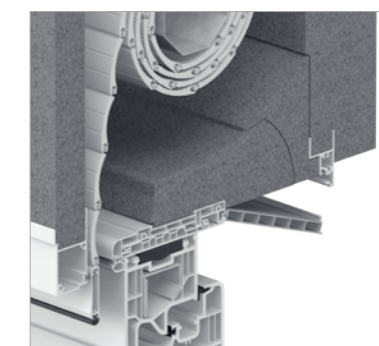


TOP FOAM RvA
With integrated recess to incorporate roller shutters, inspection from the outside, optionally with insect screen.

TOP FOAM RvU
With integrated recess to incorporate roller shutters, inspection from the underside, optional insect screen.



TOP FOAM
Inspection cover on the outside
Made of extruded aluminium with drawn-in brush sealing for optimum sealing of the roller shutter curtain.



TOP FOAM
Inspection cover on the room side
Made of rigid PVC (extruded) so the profiles can't be pulled out of shape. The hollow chamber structure ensures high stability and adds to the insulating effect due to the insulating air cushions.

GUIDE RAILS

Always one step ahead

Roller shutter profiles and guide rails form an inseparable unit. HELLA guide rails expand the overall system of individual roller shutter solutions with other important functions. The Top-Safe roller shutter has a reinforced guide rail with unique screwing technology. Guide rails with roller shutter spacers create the largest possible air cushion between

the window glass and the roller shutter curtain. This additional insulation reduces thermal bridges. Single or double guide rails are available for insect screens, in which the roller shutter curtain and insect screen are installed in the same guide rail.



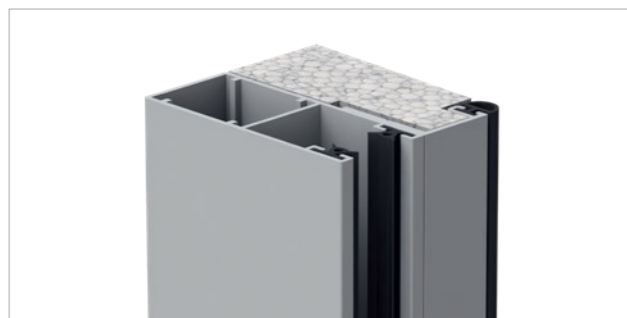
Standard

Available in different variants and sizes.



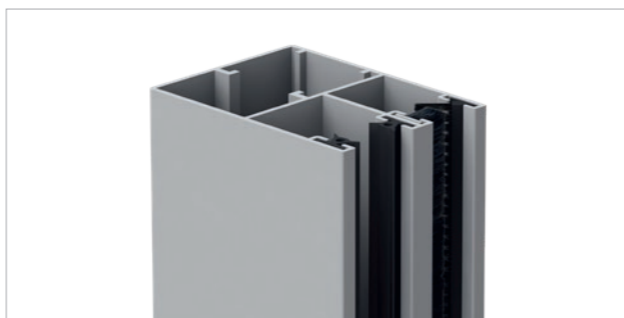
Distance guide rails

The increased distance between window and roller shutter creates an air cushion, which functions as a climate buffer and noise insulation. It also enables the integration of an insect screen.



Guide rail with additional insulation

Available in 20, 30 or 40 millimetres.



Insect screen guide rail

Practical and stable – guide rail for combination with insect roller screen.



ROLLER SHUTTER CALCULATOR

To determine various technical data for front-mounted, top-mounted, recessed and shaft roller shutters.



CALCULATE NOW

PROFILES

Perfection in the details

Besides the installation type, the selected roller shutter profile determines the specific characteristics of a HELLA roller shutter. The shape, construction and material of the profiles are the result of intensive research and decades of experience.

Aluminium profiles

The hollow space of the double-walled, roll-formed aluminium profile with light gaps is filled with polyurethane foam. The profiles are coated with thick lacquer, and the blind is locked over the entire height.



Safety profile

The double-walled, extruded and extremely stable aluminium profile (37 × 8.5 millimetres) with light gaps is foam-free and is characterised by the especially thick profile. The profiles are powder coated, and the curtain is locked over the entire height.



Daylight profile

The daylight roller shutter consists of extruded aluminium profiles, which are connected by semi-transparent plastic profiles. This allows daylight to enter the room, and keeps out prying eyes at the same time.



Max. dimensions	T37	A37	AV42	A52	S37
max. width [mm]	2,500	3,000	3,500	4,000	2,500
max. height [mm]	2,300	4,000	4,000	4,000	3,000
max. area [m ²]	5	7.5	8	10	6.5
Covering width [mm]	38.4	37	42	52	37

STANDARD COLORS

for profiles



QUALITY IN THE DETAILS

Technical highlights



ONYX.MOTOR SILENT

The ONYX.MOTOR SILENT from HELLA with integrated radio receiver has two operating speeds. These can be activated via the hand-held radio transmitter ONYX.CLICK, the wall-mounted radio transmitter ONYX.SWITCH or via smartphone. In whisper mode, the drive is practically silent. If no radio control is required, the motor can also be operated via cables with roller shutter switches.

Daylight roller shutter

The innovative daylight roller shutter from HELLA is a variable all-rounder: it protects the interior of the building, optimises the indoor climate, makes the outside world perceptible even when closed and, thanks to its compact design, is ideal for installation in low-energy houses and architecturally challenging new buildings. The roller shutter has different elements for light transmission between the profiles and is particularly suitable for rooms where daylight is desired but where prying eyes should be kept outside. The daylight roller shutter consists of extruded aluminium profiles, which are connected by semi-transparent plastic profiles. The daylight roller shutter can be fitted with an insect screen as an option.



Daylight roller shutter
Variable all-rounder.

SILENT shaft bearing

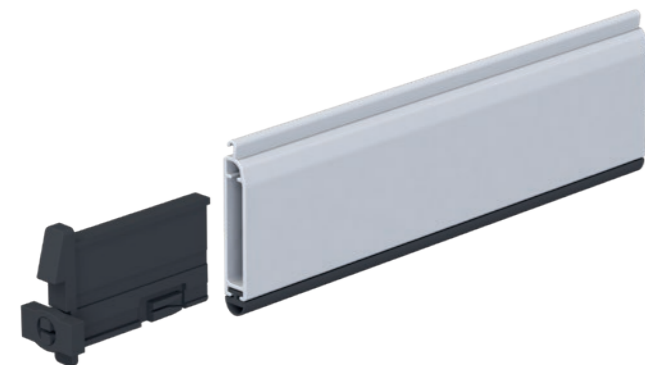
Front-mounted and built-in roller shutters are also available with SILENT shaft bearings, which make them even quieter. Here, two additional vibration dampers are installed on the motor side and bearing side, which reduce the transmission of vibration noise to the mounting base. The SILENT shaft bearing can also be retrofitted into existing systems and, in conjunction with the ONYX.MOTOR SILENT, ensures that front-mounted and built-in roller shutters are barely audible.



Drive side SILENT



Bearing side SILENT



End rod

The end rod with concealed stops is barely visible when the roller shutter curtain is retracted. The curtain can be removed at any time thanks to the rotatable concealed stoppers. This system simplifies actions such as repairs, conversion and retrofitting of insect roller screens.





SMART HOME SYSTEM



ONYX

The Smart Home System from HELLA

With ONYX, HELLA offers a smart home system that handles the digital operation of sun protection systems and controls energy input in buildings of any size. Sun protection solutions can be conveniently controlled via smartphone or tablet using an app, voice control or fully automatically.

By integrating sun protection products into the smart home, there is enormous potential for them to have a positive impact on a building's energy footprint. Maximum comfort, energy savings and sustainability can be achieved by networking with other building control systems such as those for heating or ventilation.



For a smart home

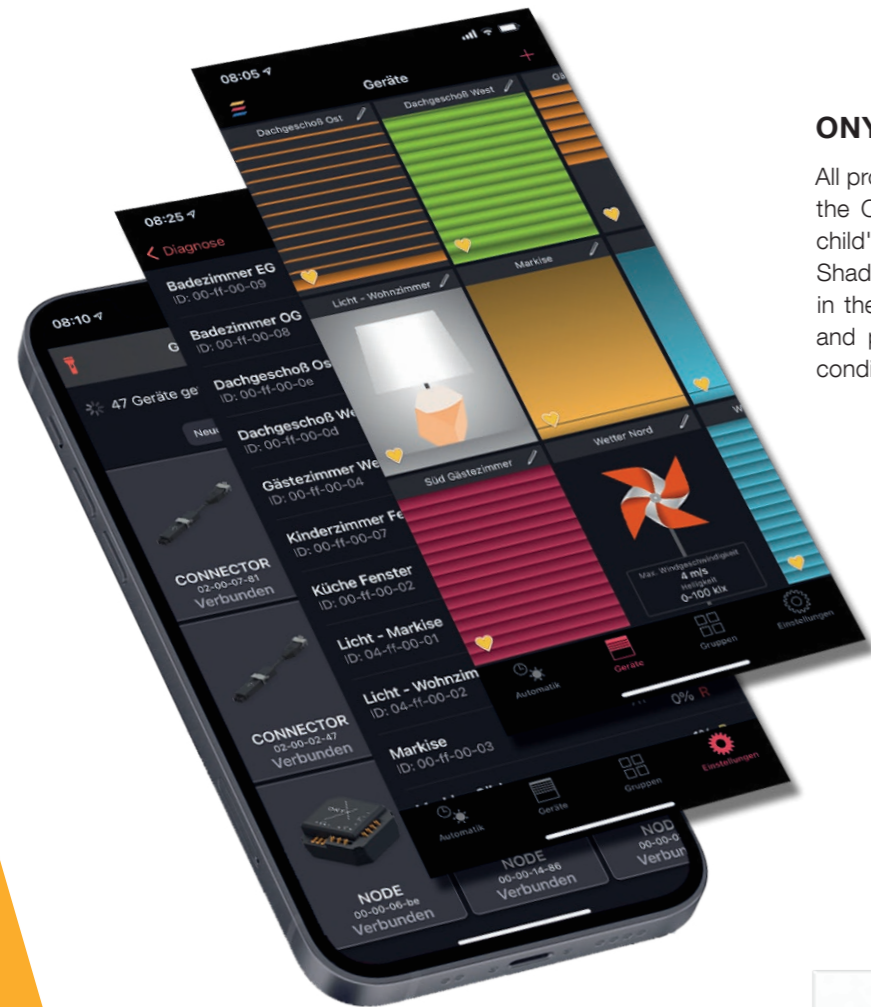
Be smart when playing with the sun! Be it a room flooded with light in winter or a shaded terrace on a hot summer's day – with the ONYX.HOME control system, it has never been easier to control the daylight and make optimum use of it within your own four walls. Digitally, automatically and in real time!



Control system for offices, etc.

Whether it's an apartment building or a large office complex – ONYX.PRO from HELLA has the energy balance for buildings of any size under control. ONYX.PRO provides a uniform façade appearance and protects the sunshade from the influence of the weather. In coordination with the electrical engineer, HELLA takes over the pre-configuration and commissioning of the sun protection systems. More sun protection – less air conditioning!

The components



ONYX app

All products at a glance on your smartphone! With the ONYX app, controlling the sun protection is child's play – whether you're at home or on the go. Shading devices can be controlled and configured in the app using individually adjustable scenarios and programmes based on the current weather conditions.

ONYX.CENTER

The centre box is the interface between the smartphone and the individual control units. It enables wireless, encrypted communication in both directions to capture the current position of the sun protection in real time and display it in the app.



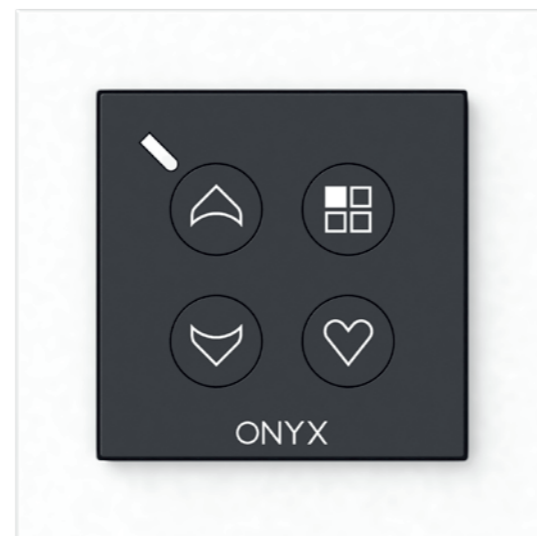
ONYX.WEATHER

The wind and sun sensor captures weather factors such as temperature, solar irradiation and wind force right on the façade.



ONYX.CLICK

The sun protection products are very easy to operate using the hand-held radio transmitter ONYX.CLICK and the wall-mounted radio transmitter ONYX.SWITCH. Several shading devices can be combined and grouped into five channels. Different colors indicate which product is being controlled. The wall-mounted and hand-held radio transmitters can be used independently or as an extension of the centre box. The wall-mounted radio transmitter ONYX.SWITCH is available with or without a frame and is compatible with all common standard switch designs.



ONYX.SWITCH



ONYX.TAG wind

The wind sensor measures the vibrations on the awning so as to retract it automatically if certain threshold values are exceeded.



ONYX.TAG sun

The sun and brightness sensor continuously measures the current brightness and controls shading systems fully automatically. The sensor provides the ideal glare and heat protection for indoor and outdoor use.



ONYX.TAG temperature

The temperature and humidity sensor monitors the temperature indoors and frost outdoors, and controls the sun protection according to set values.

THE WORLD OF HELLA





The HELLA headquarters and plant
Abfaltersbach, East Tyrol

Alois Kraler
Founder of HELLA

PREMIUM QUALITY FOR GENERATIONS

HELLA was founded in 1959 in Abfaltersbach, Austria. Since then, the company has been in the hands of the Kraler family and from a small family business in the East Tyrolean mountains it has become one of the leading companies in sun and weather protection technology. As one of the few full service providers in the market, HELLA attaches great importance to everything being produced in-house. Technology, production, consulting and also installation if required – premium quality is the benchmark here. All products are manufactured individually to measure, and the in-built components are designed for robustness and long service life.

A look at the whole room

Venetian blinds, roller shutters, awnings or pergolas – sun protection systems from HELLA are more than just smart shade providers. The intelligent systems play with light and shade and create individual spatial experiences. With the products made by this premium provider from Austria, you can control your personalised daylight profile in all internal and external spaces. Over and above that, the shading systems from HELLA also help in reducing energy consumption when equipped with weather sensors.

SUSTAINABILITY AT HELLA

For HELLA, sustainability is more than just a buzzword – it's a commitment to a holistic attitude and has been practised by the owners for decades.

Consistently acting in a sustainable way means acting in a manner that is environmentally friendly, economical and socially sustainable. The company maintains long-term relationships with customers, suppliers and employees and continuously minimises the environmental footprint of its products. Thus, for example, the slatted hinges of the outdoor blinds have recycled aluminium content of 80 per cent. HELLA is just as sustainable as its products: the company produces more energy at its headquarters than is consumed thanks to its own hydroelectric power plant and participation in a biomass heating plant. The energy management principle "Saving, generating and stocking energy" defined at the company headquarters is constantly being extended to further business locations.

HELLA's contribution to climate protection

The most sustainable solution for a comfortable indoor climate and protecting against the summer heat is automated outdoor shading. The main function of external sun protection is to reflect the sun and ensure that the heat does not penetrate into the interior. With the ONYX control system developed by HELLA, which can be connected to all common smart home systems, the sun protection systems become even more sustainable and allow the sun to get in only where it is wanted.

The system can also react to the weather in order to optimally adapt the sun and heat protection to the conditions. The ONYX weather sensors detect influences such as wind speed, sun intensity and temperature on the façade. The obtained data can then be used to customise the products to residents' needs.

Smart networking is the future

By integrating sun protection products into the smart home, they also have enormous potential to have a positive impact on a building's energy footprint. Maximum comfort, energy savings and sustainability can be achieved by networking with other building control systems such as those for heating or ventilation. The ONYX control system is interface-compatible with international systems such as Alexa or Google Home and connects to all other types of building services. Smart home integration focuses on residents and their use of space, including their daily routine and preferences.

Energy saving with sun protection

Depending on the building, age and size of the window area, up to 30 per cent of heating energy can be saved using automated, external sun protection, like roller shutters. Savings of up to 50 per cent can also be achieved when cooling. Sun protection products have a clear advantage over air conditioning systems when it comes to sustainability. The latter not only consume energy, but also directly contribute to warming the urban space through warm exhaust air. Intelligent sun protection systems thus make an important contribution to CO₂ savings and climate protection.

EVERYTHING FROM A SINGLE SOURCE

Thanks to its innovative strength, HELLA is a full service provider and offers a broad portfolio of customised sun protection solutions. Premium quality is the benchmark here. Be it refitting, refurbishment or new construction – HELLA has the right solution for every building project!

Terrace & Garden



Window & Façade



Build & Renovate



Control devices



HELLA

Brochure | Roller shutter

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