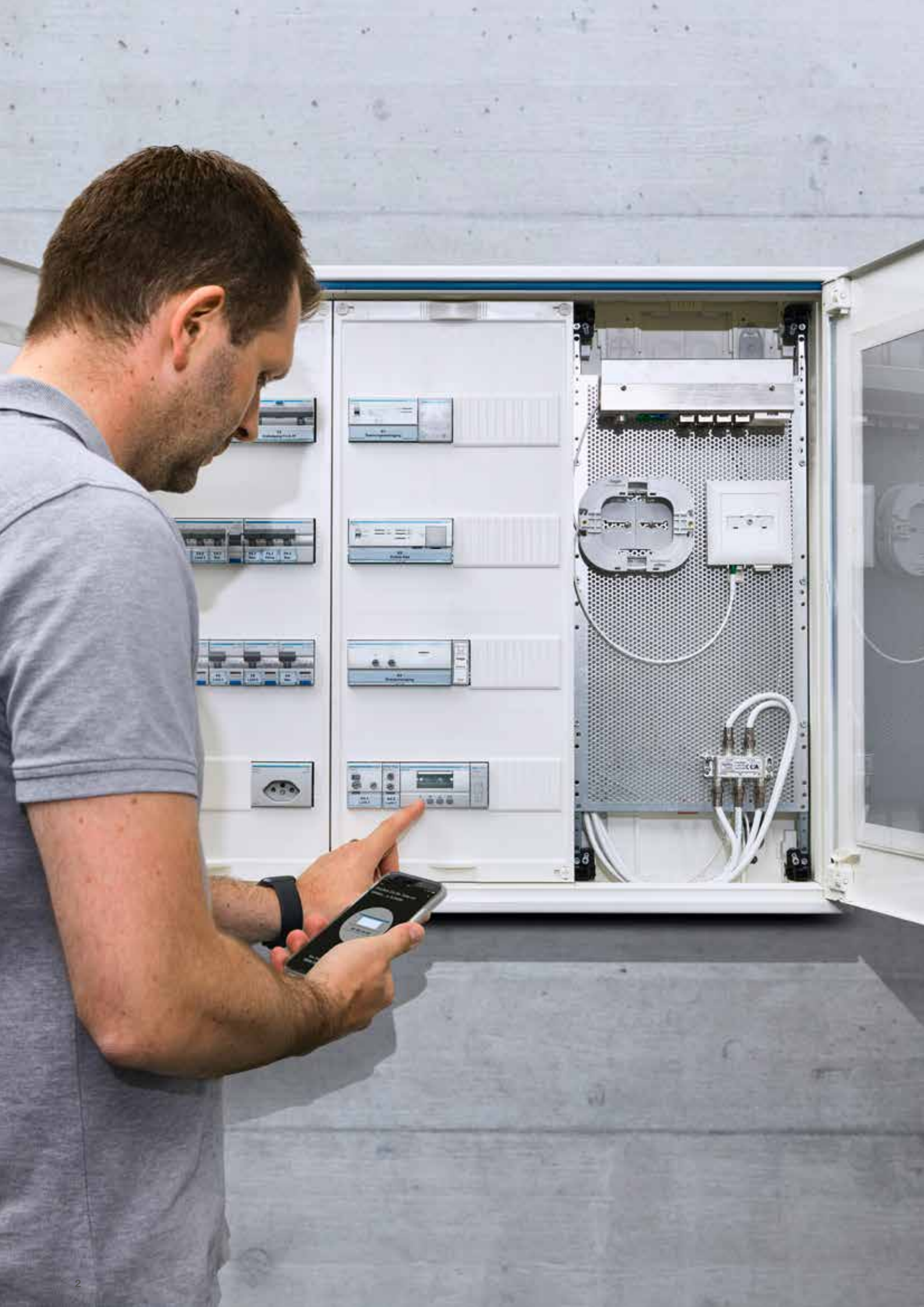


Inside / Out

Digital Time Switches

Our new generation timeswitches combine the functions and modes required for modern building automation, offering you the possibility to program your time schedule via an app.

:hager



The start of a new era.

Technical know-how, decades of experience and always ready to listen to the needs of our customers. We bring all of these qualities together in the design of our new time switches to further facilitate installation and commissioning in the future.

The new generation combines the functions and modes required for modern building automation. It offers you the possibility, for the first time, to program your time schedule via an app. Not only does this save time, but it ensures maximum flexibility in your personal time planning.

Benefits at a glance

Simple. Reliable. Safe.

The new time switches allow you to perform time switch tasks even faster and more flexibly, thanks to state-of-the-art technology.



New generation. More possibilities

Higher functionality and a clearer product range make it easier for you to choose the right time switch.



Time-saving installation

The possibility of pre-programming the time switch before installing it, offers you maximum flexibility in personal time scheduling.



Hassle-free commissioning

Extended program functions enable you to create individual program requests in seconds. Program time switching sequences directly on the device, via software or app. The new app is compatible with iOS (from version 8 and Android (from version 5.1).



Compatible with twilight sensors

Switch your programs on or off depending on your set brightness value via the separately available twilight sensor.



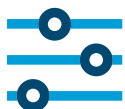
Convenient programming

The clear display of end devices offered by the app and software, makes the setting-up, programming and managing of the time switches easy and convenient.



Location-accurate geo-coordinates

Transmit the exact geo-data to the time switch via app or software at the touch of a button. Public holidays and school holidays are transmitted based on the location data, enabling an automated feature to control exceptions.



More programming flexibility

Set up time schedules at the location of their use or prepare or change them from any location via app or software. Pre-created time schedules can be easily transferred to your time switch at any time via Bluetooth.



Highest data security

Secure storing of program-related data directly from the app in the Hager Cloud. Via myHager you can then share them with colleagues or pass them to your customers.



High inrush currents safely under control

Thanks to the integrated zero-cross switching, high inrush currents of LEDs are no longer an issue. This protects contacts and ensures an even longer lifespan of our time switches.

Old v. new

Efficiency pushed to extremes.

The new generation of time switches makes installation considerably easier. Now with only 4 instead of 15 references, we have laid out our range much more clearly. The new time switches include all the proven functions that previously required several time switches and they expand these with new features. This way, you solve even the most demanding time switch tasks effortlessly with just one reference.

Evolution of the range:

1 Channel

Program	Previous models	Multifunctional time switch	Weekly time switch
Daily program	EG010	EGN100	EGN103
Weekly program	EG103		
	EG103E		
	EG103V		
	EG103D		
	EG071		
Astro program	EE180		

2 Channels

Program	Previous models	Multifunctional time switch
Weekly program	EG203	EGN200
	EG203E	
Yearly program	EG293B	
Astro program	EE181	
Twilight	EE200	EGN200 + EEN003
	EE202	

4 Channels

Program	Previous models	Multifunctional time switch
Weekly program	EG403E	EGN400
Yearly program	EG493E	

New product range

Our new time switches at a glance.

The time switches EGN100, EGN200 and EGN400 combine all the functions of a modern time switch.

For less complex weekly time switch tasks, EGN103 offers a simple and cost-saving one-channel solution.

Add-ons for your time switch.

EEN003



Separate twilight sensor,
wall mounted

EEN002



Separate twilight sensor,
flush mounted

EGN103



Digital weekly time switch,
1 channel

E-No: 533 175 334

EGN100



Digital multifunctional
time switch with Bluetooth,
1 channel

E-No: 533 175 234

EGN200



Digital multifunctional
time switch with Bluetooth,
2 channels

EGN400



Digital multifunctional
time switch with Bluetooth,
4 channels

Programming via app and software.



With the new Hager Mood app and software, the programming of your time schedules is completely location independent. If you wish, you can create them conveniently from home and on the go or make modifications. Via Bluetooth, you can transfer your time schedules to the device at any time.



Benefits of the app:

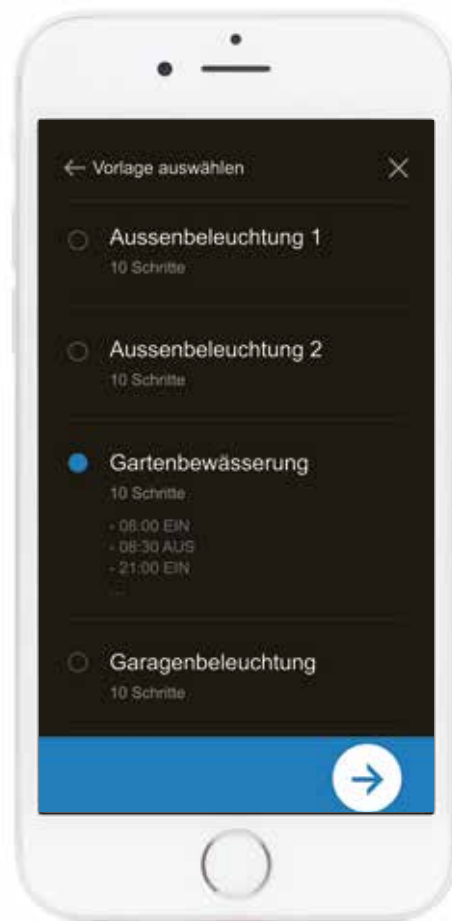
- 01 Easy and convenient**
The larger displays of a laptop, smartphone or tablet increase the clarity of programming.
- 02 Automated Astro and public holiday settings**
After manually entering the location data, the software or app customises local features such as sunrise and sunset times, holiday periods and public holidays.
- 03 Available everywhere**
Your time schedules can be checked, edited and pre-programmed for on-site installation, regardless of location and time.
- 04 Safer connection**
To connect and transfer the time schedules via Bluetooth, a confirmation is required on the device. Thus, preventing unauthorised access by third parties.
- 05 Transmission of time schedules to third parties**
You can share your generated time schedules with your colleagues or pass them to your customers via the Hager Cloud.

Easy commissioning thanks to Hager Mood app.



01 Select the timer

Use Bluetooth to locate the time switch and establish a connection. When connecting, the time switch briefly lights up and you need to confirm the access manually.



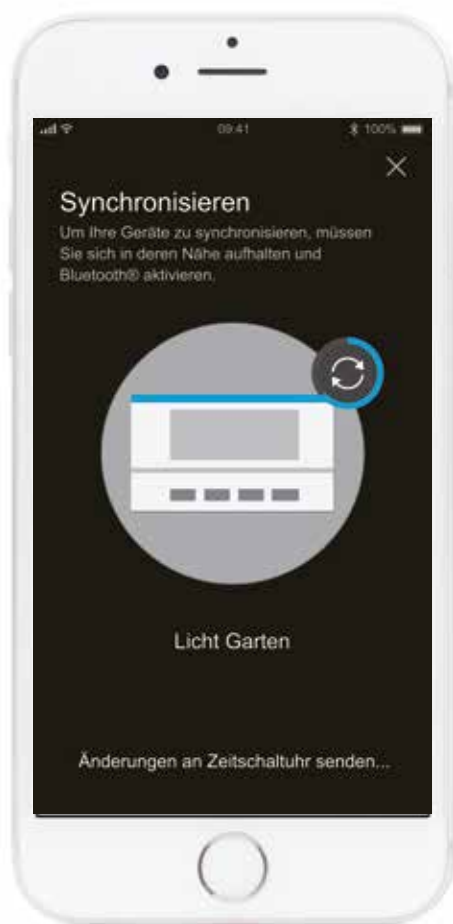
02 Create programs

The next step is to set the desired time, precise to the minute, for your time switch operation. Define switch on/off times, leap days as well as exceptions and priorities.

The Hager Mood app allows you to program your time schedules before the actual installation. You can put your time switch into operation immediately following the installation.

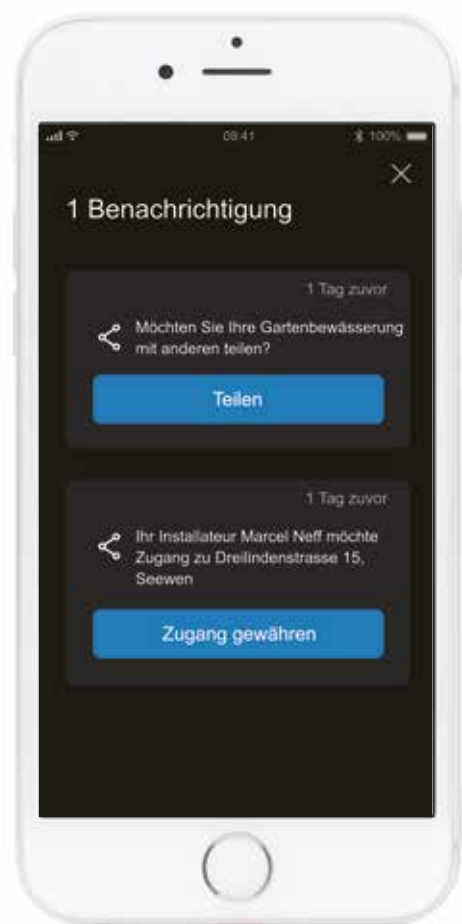
Download

The free Hager Mood app can be downloaded from the Google Play Store and Apple App Store.



03 Synchronise the program with the timer

To transfer the program created on your end device to the timer, synchronise them with each other. This process requires both devices to be in Bluetooth range.



Transfer of data with myHager

After programming, data can be shared with colleagues via Hager Cloud. You can also transfer editing and access rights to the customer.

The all-in-one solution for your time switching.

With the new time switches from Hager, you are opting for multi-functional talents. They bring together all proven functions of the old generation and new features and fulfil every demand.



Time switching

Use the daily, weekly or yearly function to create your time schedules. As a result, you and the customer have free rein, whether to set routine or exception weeks or to plan everything in advance for the entire year.



Astro switching

Your time switch thinks with you: In the Astro function, the time switch automatically adjusts its time cycles to sunrise and sunset.



Twilight switching

The expandable twilight sensor detects changing lighting conditions on site and adjusts the timer automatically. You can also use your time switch as conventional twilight switches.



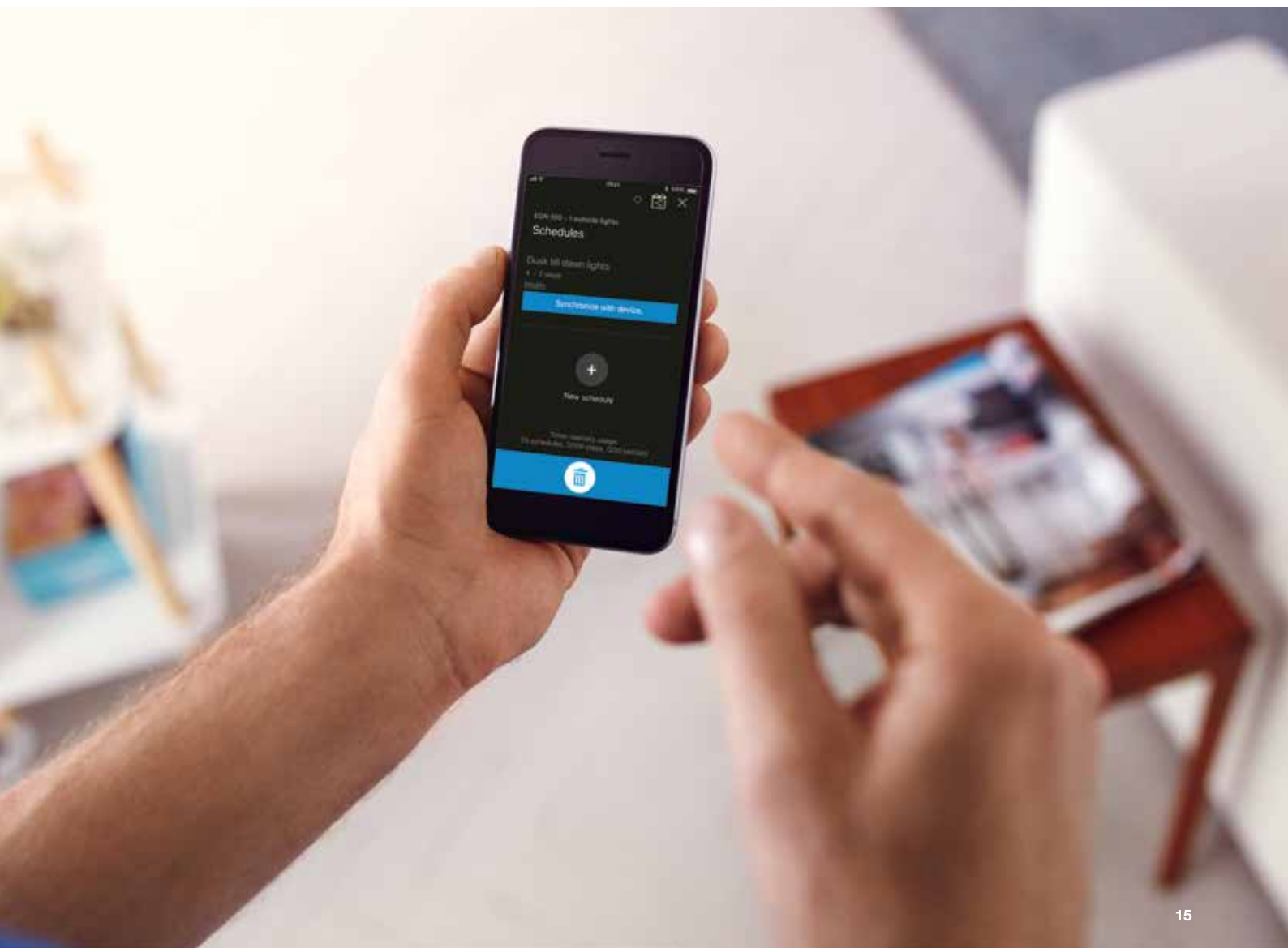
Staircase switching

The optional connection of wired pushbuttons or radio components (quicklink) enables the installation of effective staircase switching.



Timer

Setting the switch-on time in conjunction with a connected pushbutton makes it easy to set up a timer.



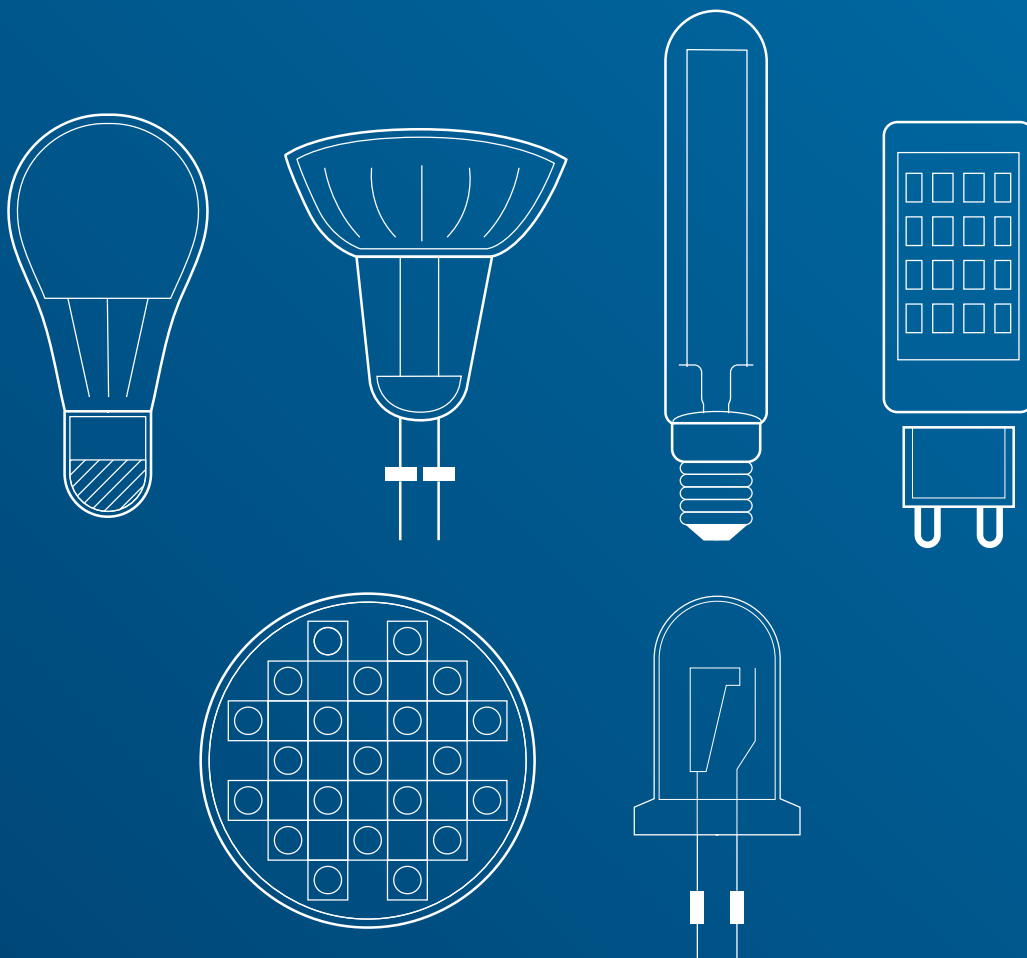
Zero-cross switching for high inrush currents.

All the models of our new time switches use zero-cross switching and enable switching loads for LEDs of up to 400W.

The zero-cross switching implemented in the devices regulates inrush currents to a constantly low level. In order to do this, the system automatically determines the zero crossing of the sine wave at the AC voltage.

Durable switching of LEDs.

The integrated zero-cross switching protects relay contacts and ensures compatibility with LED lamps. Thanks to the forward-looking approach, the life of the time switch is extended accordingly.



Maximum precision

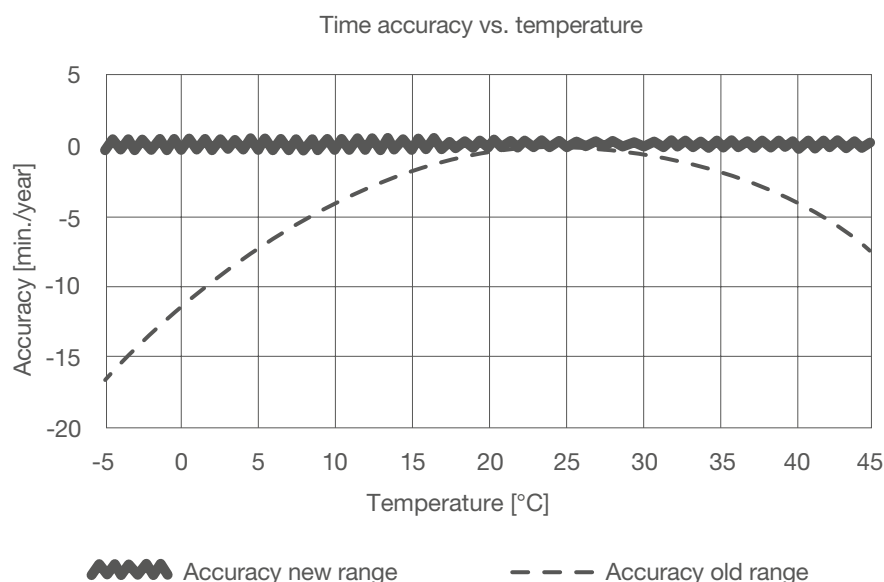
Integrated real-time clock for maximum precision.

With modern time switching, every second counts. The integrated real-time clock ensures switching that is accurate to the second, thus increasing energy efficiency.



To-the-second precision.

Our time switches EGN100 and EGN200 and EGN400 allow precise switching of your programs. The integrated real-time clock operates at temperatures from -40 °C to +85 °C with an accuracy of only +/- 90 seconds per year. This ensures the highest efficiency of time-bound time schedules - without needing to adjust the time manually due to excessive deviation from the real time. In addition, the time synchronises whenever an end device is connected via Bluetooth.



The integrated real-time clock operates exactly to the second, assuming normal use. Even at extreme temperatures of -40 °C to +85 °C however, the difference is only +/- 90 seconds per year.

Compatible with all components.

Special requirements call for special solutions: Whether you wish to connect a switch to your time switch, extend your device via a twilight sensor or control it by remote control. All our multifunctional time switches are designed so that you can easily customise your time switches to your individual requirements.

Control via radio transmitter



TU404

Connection with brightness sensor



EEN003

Connection via wired pushbutton



WH27130100C



EEN002



Soft-touch control buttons
Improved pushbuttons enable quick setting on the time switch

User-friendly operation
Integrated display with LED backlighting

Examples of application

Wide range of applications.

Our time switches are suitable for almost all private and commercial applications. Here a small excerpt:

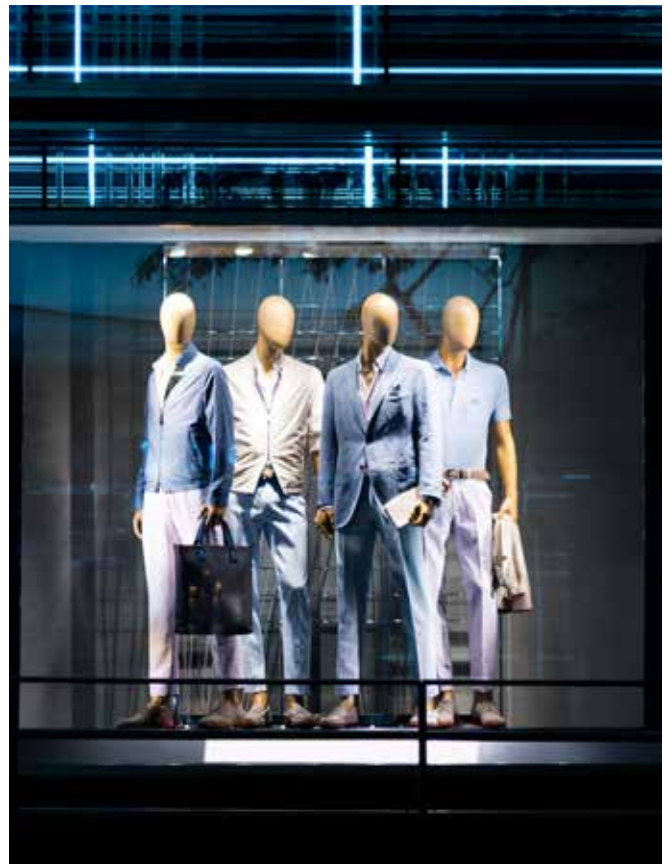
Outdoor lighting in multi-unit apartment buildings

Automatically control the lighting of entrance areas.



Shop window lighting of commercial spaces

With the right programming, shop windows can be presented attractively also at night.



Locking systems of public buildings

Our time switches enable time-bound opening and closing of accesses to public buildings.



Holiday program with absence simulation

Lighting at twilight provides a sense of security - and also during holidays.



Lighting control of buildings

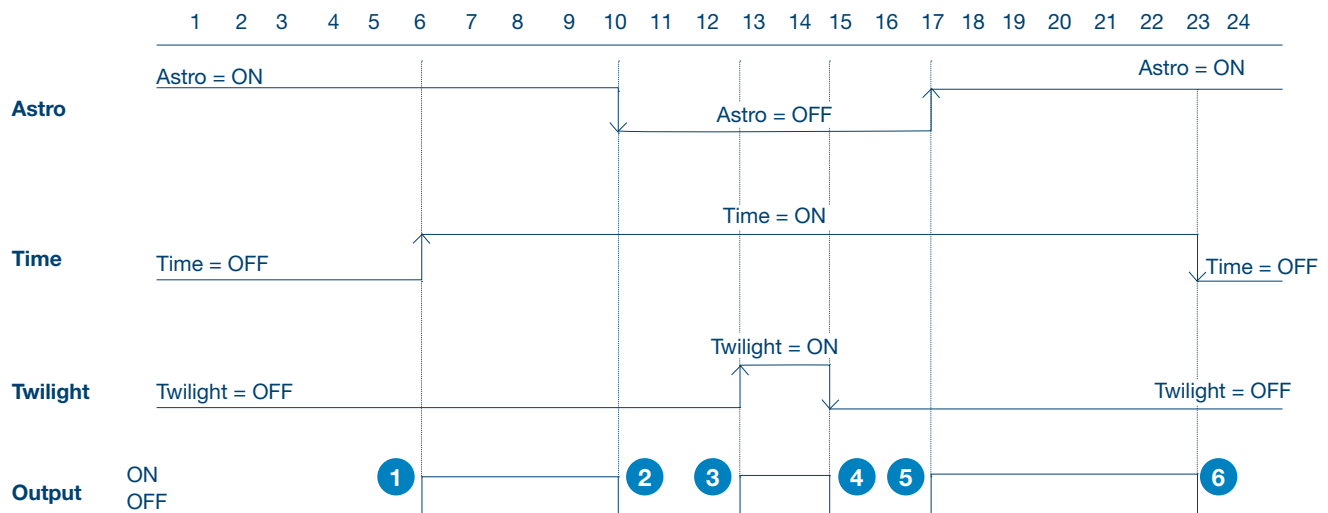
Efficient switching via the Astro function.

The implemented, location-based Astro function automatically detects sunrise and sunset and adjusts the time switching accordingly. Light and time-specific controls can be programmed conveniently without needing to constantly make manual adjustments.

Combination

Logical control and connections.

By combining the Astro function, twilight and time at one output, logic control and connections can easily be created.



- 1 When time event ON and Astro state ON = output ON
- 2 When Astro state OFF = automatically OFF
- 3 When Astro state Off and time event ON, and twilight ON (brightness less than 100 lux, e.g. during a storm) = light On
- 4 When Astro state Off and time event ON, and twilight switch OFF = light OFF
- 5 When Astro state ON and time event ON = light ON
- 6 When time event OFF = automatically OFF



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