finder
RELAYING INNOVATION

SELECTION GUIDE

# TIME SWITCHES
# 12 SERIES

A comprehensive range of time switches with weekly and/or annual programming optimized for lighting, heating system management and other loads.

findernet.com

# ABOUT US

**Finder** was founded in Italy in 1954. Since then it has been designing and manufacturing a wide range of electromechanical and electronic components for both the residential and industrial sectors.
Today, thanks to its global vision, Finder now distributes its products around the world through a network of 29 company-owned subsidiaries and more than 80 trade partnerships.
Finder is an international family made up of more than 2000 individuals, all united by the same values and passion for our products.

**14,000+** different products to satisfy a myriad of applications. From products at the heart of automation to the control of machines, power, time, temperature, liquid level and light

## OUR PRODUCTS CARRY MORE CERTIFICATIONS THAN ANY OTHER RELAY MANUFACTURER

## FINDER IS AN ITALIAN BRAND WITH A WORLDWIDE PRESENCE

- **4** PRODUCTION PLANTS IN EUROPE
- **29** SUBSIDIARIES
- **80+** OFFICIAL DISTRIBUTORS

## ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG)

Finder considers social and environmental sustainability as fundamental principles of doing business, just as it believes that business growth must develop in synergy with a conscious vision of the future.
That is why Finder is committed to reducing and eliminating CO2 emissions, focusing on circularity, caring for its employees to foster a safe, fair and inclusive work environment, spreading a culture of integrity and transparency, and collaborating with stakeholders who share its values.

## AUTONOMY AND INDEPENDENCE

Finder's managerial, financial and technological autonomy allows optimal control over all its business processes, the results of which include simplified customs procedures and a high reliability of commercial relations.

- **ISO 9001:2015** Quality management system
- **IECEx** Equipment for Use in Explosive Atmospheres
- **ISO 14001:2015** Environmental management system
- **ISO 27001-27701** Information Security and Privacy Management System
- **ISO 45001:2018** Health and safety management system
- **ISO 50001:2018** Energy management system
- **ISO 14064-1:2019** Carbon Footprint verification
- **AEOF** Simplified customs and enhanced supply chain security
- **FSC** Forest Stewardship Council
- **Cribis Prime Company** Recognition of highest reliability of commercial relations

# 12 SERIES
# TIME SWITCHES

## DIGITAL TIME SWITCHES

12.51 12.81

12.61 12.62 12.A4
12.A1 12.A2

12.B2 12.C1

The Finder 12 Series consists of electromechanical and analogue/digital time switches that can be programmed in "Classic" mode via the joystick, or "Smart" mode via smartphones with NFC communication:

- **Type 12.51** - Digital (analogue-style) time switch, daily/weekly programming;
- **Type 12.81** - Digital Astro-switch;
- **Type 12.61** - Digital time switch, weekly programming (1CO);
- **Type 12.62** - Digital time switch, weekly programming (2 CO);
- **Type 12.A1** - Weekly Astro time switch (1CO);
- **Type 12.A2** - Weekly Astro time switch (2 CO);
- **Type 12.A4** - Weekly Astro time switch. Suitable for applications where a variable light level is required - programmable via smartphone with NFC communications. Compatible with power supply/ballasts with 0-10V or PWM inputs;
- **Type 12.B2** - Annual Astro time switch, with Bluetooth or NFC;
- **Type 12.C1** - Weekly Astro time switch with Bluetooth.

Approvals (according to type)

## MECHANICAL TIME SWITCHES

12.01 12.11 12.31

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# PRECISE LOAD MANAGEMENT

The **12 Series time switches** optimally manage switching on and off lighting, both in residential buildings (such as houses and apartments), and in common areas of public buildings and offices (such as gardens, garages, entrances and driveways).

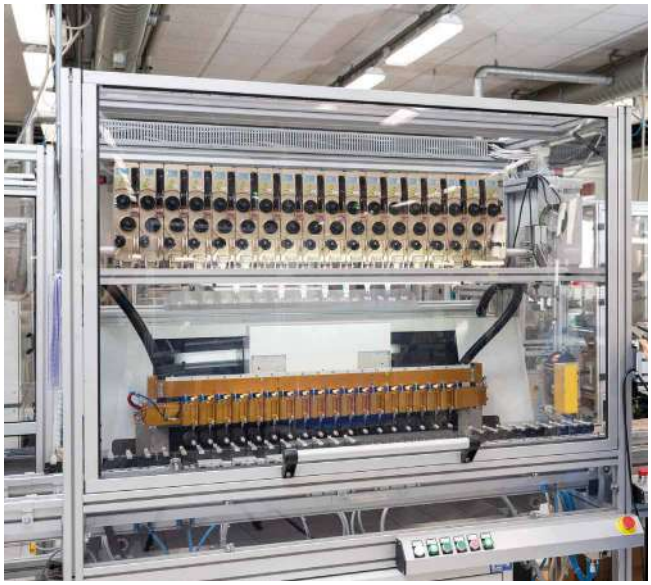
Time switches are widely **used to optimize load management** on a daily, weekly or annual basis, or at sunrise/sunset.

In public areas where programming via smart phone, a single operator can change programming, avoiding errors and the overlapping of multiple settings/programs, helping to reduce energy consumption.

# CHOOSE THE TIME SWITCH THAT BEST SUITS YOUR NEEDS

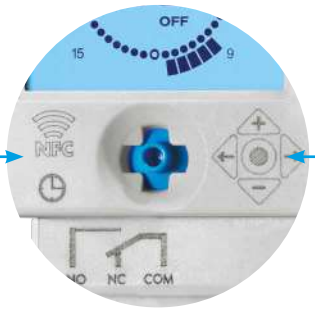
Thanks to their versatility, the 12 Series time switches can be used in irrigation, heating and air conditioning systems, shop window displays, illuminated signs, automatic gates, and in public lighting systems.

- Residential lighting
- Streetlights and car park lighting
- School bells
- Heating and cooling
- Shop displays
- Opening/closing gates
- Irrigation
- Industrial machinery



# PROGRAMMING
# A DIGITAL TIME SWITCHES

## Different programming mode




**"Smart"**

Smart mode via smartphones with NFC communication using Finder toolbox, iOS or Android App.

**"Classic"**

Mode via the joystick

Finder Toolbox

## App Finder Toolbox

GET IT ON Google Play

Download on the App Store

finder TOOL BOX

Finder Toolbox

By downloading the free Finder Toolbox app, compatible with both Android and iOS systems onto your smart phone, you can programme and save your desired settings in just a few minutes.

For example, you can configure and/or read device settings and modify a wide range of options in detail, depending on your needs.

Not only that, but the app allows you to save your settings so you can apply them to multiple devices and share them with other users.

Once you have finished the configuration with your smart phone, you can send it to the device in a smart way via Bluetooth or NFC:

NFC

Simply place your smart phone onto the product, or multiple devices, to transfer data using NFC (Near Field Communication) technology. This technology allows communication to take place without the time switch being powered

With Type 12.B2 and 12.C1 devices, you can send the configuration quickly and easily to the device without the need for physical contact with your smartphone.

NFC

***"Finder is the first company in the world to have applied NFC technology to electrical installation products".***

In 2014, Finder launched programmable time switches onto the market using the free Finder Toolbox app and NFC technology.
This innovation has made the work of countless professionals in the sector much easier.

Setting “Astro”

Precise load time managment

Energy saving

Urban lighting

# FINDER TOOLBOX APP
# “ASTRO” settings simulator

Finder Toolbox

**Precise programming of contact closure duration, setting offset time relative to sunrise / sunset is essential for optimizing 12 Series Astro time switches (Types 12.81, 12.A1, 12.A2, 12.A4, 12.B2 and 12.C1) to maximize energy efficiently.**

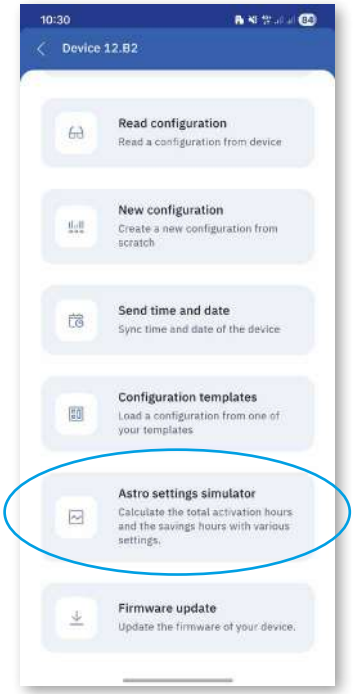
This approach reduces energy consumption by avoiding unnecessary switching, using energy only when necessary, with benefits for the environment and costs.
In addition, accurate management allows data on energy use to be collected, improving planning and facilitating predictive maintenance.
Ensuring lasting energy savings and a more sustainable use of resources.

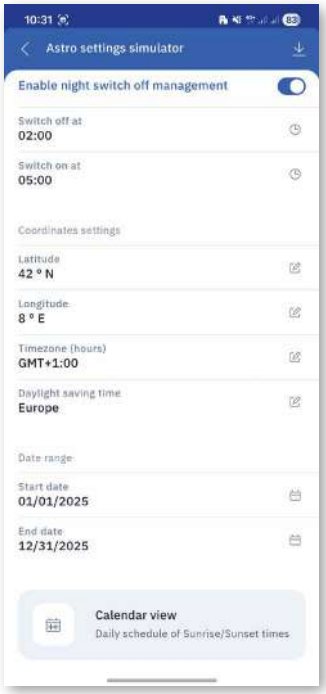
- Astro time setting on all Astro time switches

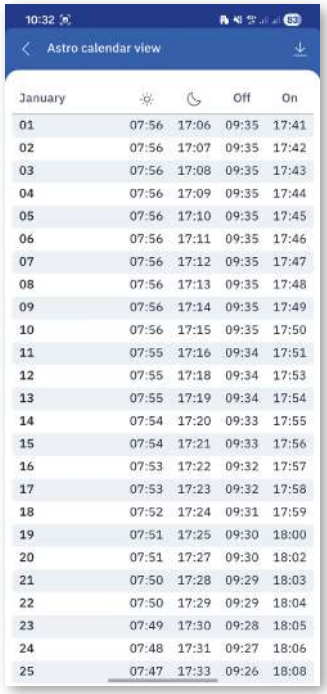
- Immediate estimate of the time saved

- It is possible to set the specific reference period

- Option of downloading data in a .CSV file.






## Excel table example

| | A | B | C | D | E | F | G | H | I | J | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Month | Day | Sunrise | Sunset | Off | On | NightSwitchOff | NightSwitchOn | SwitchOnMinutes | NightSwitchOffApplied | |
| 2 | 1 | 1 | 07:56 | 17:06 | 07:26 | 17:36 | - | - | 830 | YES | |
| 3 | 1 | 2 | 07:56 | 17:07 | 07:26 | 17:37 | - | - | 829 | YES | |
| 4 | 1 | 3 | 07:56 | 17:08 | 07:26 | 17:38 | - | - | 828 | YES | |
| 5 | 1 | 4 | 07:56 | 17:09 | 07:26 | 17:39 | - | - | 827 | YES | |
| 6 | 1 | 5 | 07:56 | 17:10 | 07:26 | 17:40 | - | - | 826 | YES | |
| 7 | 1 | 6 | 07:56 | 17:11 | 07:26 | 17:41 | - | - | 825 | YES | |
| 8 | 1 | 7 | 07:56 | 17:12 | 07:26 | 17:42 | - | - | 824 | YES | |

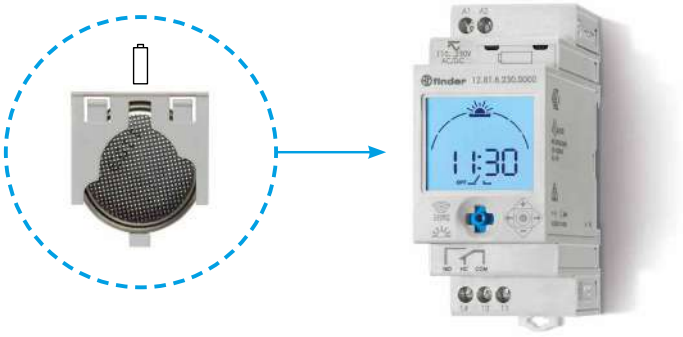
# BATTERY REPLACEMENT

## Battery replacement Type 12.81, 12.51, 12.61, 12.62, 12.A1, 12.A2, 12.A4, 12.B2

If the 230 V AC supply is not connected, the time switch enters **power-save mode**: only time and date are maintained whilst the display turns off so as to guarantee a long life for the built-in back-up battery.
With a press to the joystick it is possible to "awake" the device and enter Display mode (with the **"plug"** symbol displayed).
A further press to ◎ will enter the program or set-up mode as explained in the Display mode section above.

After about 1 minute of inactivity the power-save mode will start again. During program or set-up the current absorption is higher than in power-save mode, thus influencing the battery life.
In this mode the display **back-light** is not active. It is activated following a press to the joystick only with the 230 V AC supply connected, but after about 1 minute of inactivity the display back-light will turn off, and to activate it again it is necessary to press the joystick again.

**Note**: the output relay only functions if the power supply is connected.

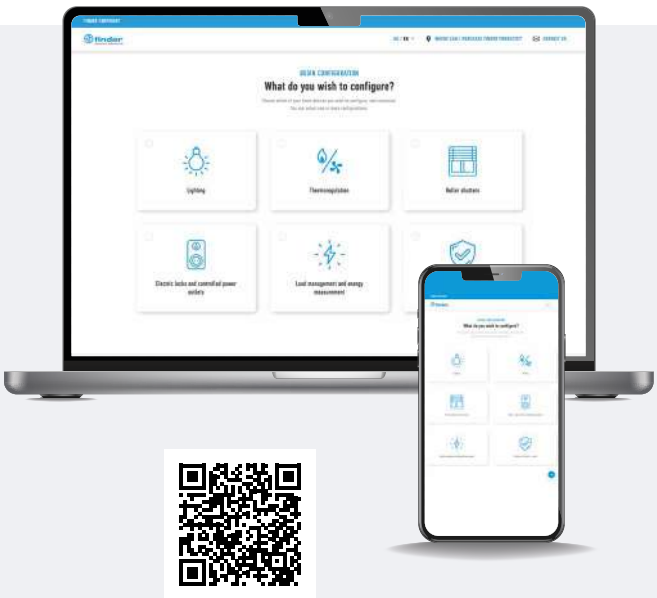


# SUPERCAPACITOR POWER STORAGE

## For Type 12.C1

Thanks to the use of a super capacitor, the device retains its charge for up to 7 days, allowing the time and date to be maintained on the device even in the event of a prolonged power failure.

The charging reserve depends on how long the device is powered:
15 minutes = approx. 16 hours, 1 hour = approx. 36 hours, 12 hours = approx. 3 days, 24 hours + = approx. 7 days.




# CONFIGURATION TOOL FOR RESIDENTIAL AND COMMERCIAL PRODUCTS

The Finder configurator dedicated to products for the civil and residential sector is the online tool that allows you to specifically choose the most suitable devices, depending on your needs.

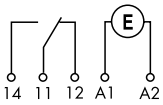
The ideal solution for those who need or want to customize, for example, the operation of lights or electric blinds, make their heating system smart or meter the energy consumption of a house or apartment building.

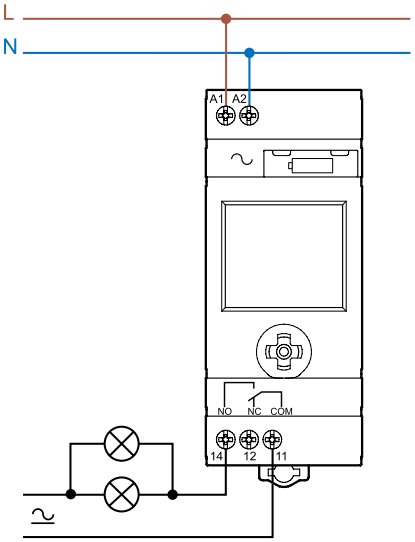
**https://configuratore-civile.findernet.com/en/**

# TECHNICAL DATA

| | 12.81 | 12.51 | 12.61 | 12.62 | 12.A1 | 12.A2 | 12.A4 | 12.B2 | 12.C1 | 12.01 | 12.11 | 12.31 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Contact configuration | 1 CO | 1 CO | 1 CO | 2 CO | 1 CO | 2 CO | 1 CO | 2 CO | 1 NO | 1 CO | 1 NO | 1 CO |
| Version 12...24 V DC | | | ✓ | | | ✓ | | | | | | |
| Astro | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Switch | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Pulse | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Astro Pulse | | | | | | | | ✓ | ✓ | | | |
| Astro Correction<br>Cyclic Function<br>Random switching | | | | | | | | ✓ | | | | |
| Daily | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Weekly | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ |
| Annual | | | | | | | | ✓ | | | | |
| Minimum switching interval | — | 30 min | 1 sec | 1 sec | 1 sec | 1 sec | 1 min | 1 sec | 1 sec | 30 min | 15 min | 15 min/<br>1 h |
| Expandability | | | | | | | | ✓ | | | | |
| GPS antenna synchronization | | | | | | | | ✓ | ✓ | | | |
| Bluetooth | | | | | | | | ✓ | ✓ | | | |
| NFC | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Light level control<br>PWM o 0-10 V | | | | | | | ✓ | | | | | |
| Calculation of sunrise and sunset times through date, time and location coordinates | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Wide (mm) | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 17.5 | 35.8 | 17.5 | 72x72 |
| Back-light display LCD status indication, set-up and programming | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | | |
| Internal battery without supply, easily replaceable from the front | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | ✓ | |
| Without Internal battery, one week power reserve | | | | | | | | | ✓ | | | |
| Volt-free contacts | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Lock with a 4-digit PIN | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | | |
| Incandescent/halogen (W) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1800 | 2000 | 2000 | 2000 |
| Compensated fluorescent (W) | | | | | | | | | | 750 | 750 | 750 |
| Uncompensated fluorescent (W) | | | | | | | | | | 1000 | 1000 | 1000 |
| Fluorescent tubes with electronic ballast (W) | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | | | |
| Fluorescent tubes with electromagnetic ballast (W) | 750 | 750 | 750 | 750 | 750 | 750 | 750 | 750 | | | | |
| CFL (W) | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 300 | 400 | 400 | 400 |
| LED (W) | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 300 | 400 | 400 | 400 |
| LV halogen or LED with electronic ballast (W) | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 300 | | | |
| LV halogen or LED with electromagnetic ballast (W) | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | | | | |

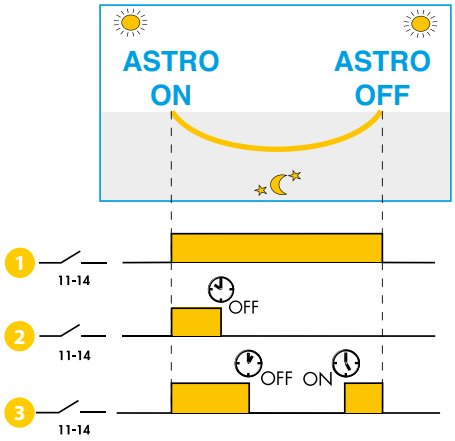
# Digital Astro-switch
## Type 12.81






Type 12.81.8.230.0000: 1 CO 16 A 230 V AC

- Astro program: calculation of sunrise and sunset times through date, time and location coordinates
- **Astro settings simulator - Finder Toolbox App**
- ON-OFF night function
- Location coordinates easily settable for most European countries through Post codes
- Offset function: allows programming of switching times offset from the astronomic time (by up to 90 min, in 10 min steps)
- Daily programming



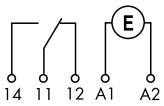

The Override feature permits the Type 12.81 three different ways of functioning:

1. Classic function where the **Astro ON** and **Astro OFF** times are determined by the geographic coordinates. These times vary every day.
2. Functions such that the output turns on according to the **Astro ON** time and turns off according to the clock off-time $_{OFF}$. Application example: shop window lighting on by **Astro ON** at sunset and off $_{OFF}$ at 00:30
3. Functions such that the output turns on according to the **Astro ON** time and turns off a ccording to the clock off-time $_{OFF}$, and then turns back on at the clock on-time $_{ON}$ (for the remainder of the ASTRO time period). Application example: company car park lighting, on by **Astro ON** at sunset, off end of the evening shift at 23:00 $_{OFF}$. On again at the beginning of the morning shift at 05:00 $_{ON}$ and off automatically by **Astro OFF***.

* Depending on the time of year (summer specifically) it may be that the override ON time will fall after the Astro OFF time. In this case, the output switches off at the Astro OFF time and the override ON time is ignored

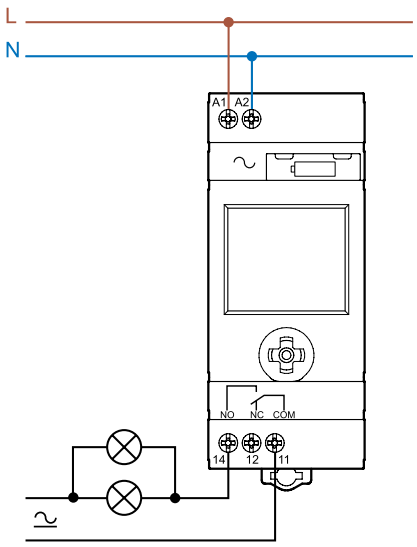
**Night-time switch-off**
Type 12.81 1 contact 16 A, combines the astro function with the 'night' function, allowing the device to be switched off at a programmed time during the active phase (after sunset). Night function example: switching on a sign at sunset, programmed switch-off at 01:00., programmed switch-on at 05:00. and automatic switch-off at sunrise, as per the Astro function.

# Weekly
## Type 12.51




Type 12.51.8.230.0000: 1 CO 16 A 230 V AC

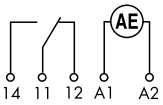
Daily/weekly programming
**Easy night-time programming**




- Lighting management
- Irrigation
- Central heating systems

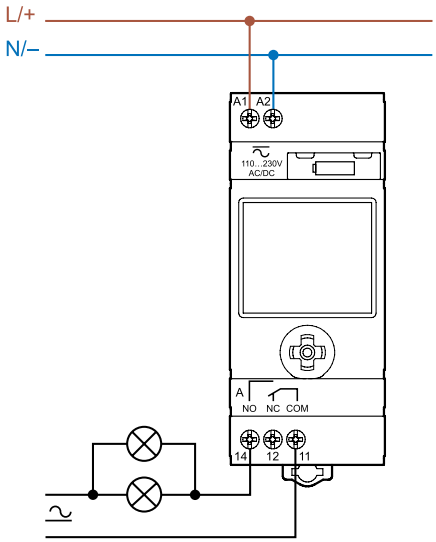
# DIGITAL TIME SWITCHES

## Weekly
### Type 12.61

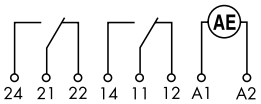



Type 12.61.8.230.0000: 1 CO 16 A - 110…230 V AC
Type 12.61.0.024.0000: 1 CO 16 A - 12…24 V AC/DC

Functions: - Switch ON/OFF
- Pulse function: 1 s…59 min

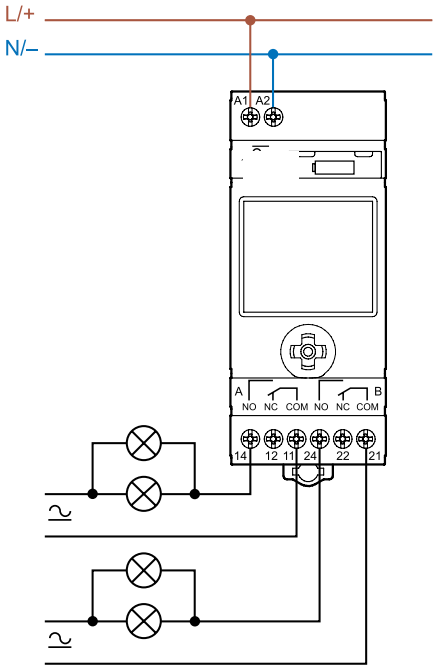



## Weekly
### Type 12.62




Type 12.62.8.230.0000: 2 CO 16 A - 110…230 V AC

Functions: - Switch ON/OFF
- Pulse function: 1 s…59 min




**Bell management - in school buildings.**
Particularly suitable for this purpose as it is equipped with a pulse function.

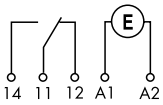
**Lighting management**

**Irrigation. Example: Type 12.62 - 2 channels.**
The two channels can control the lights and irrigation individually.

**Central heating systems**

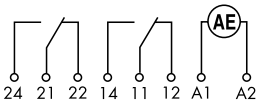
**Automated gate control**

# Weekly Astro time switch
## Type 12.A1



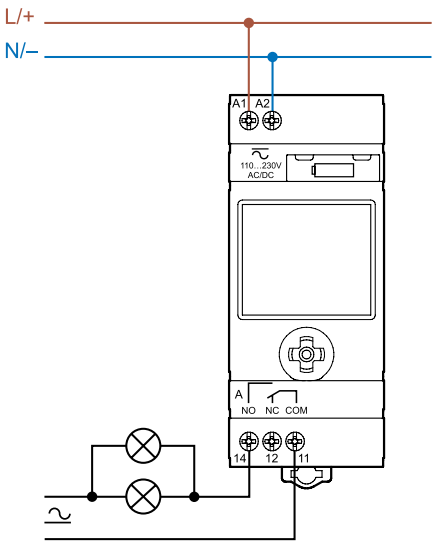
Type 12.A1.8.230.0000: 1 CO 16 A - 110…230 V AC

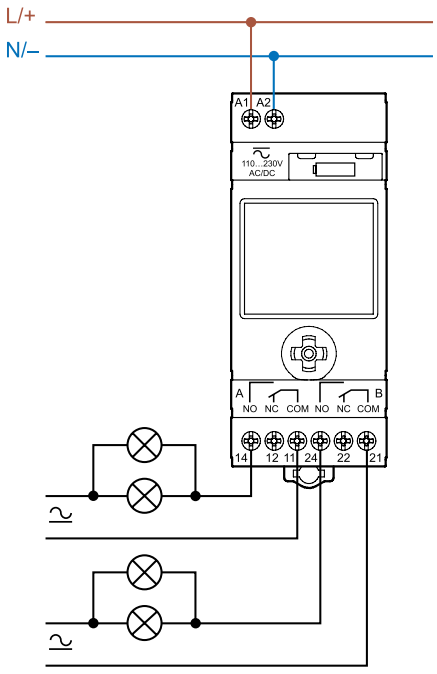
# Weekly Astro time switch
## Type 12.A2



Type 12.A2.8.230.0000: 2 CO 16 A - 110…230 V AC
Type 12.A2.0.024.0000: 2 CO 16 A - 12…24 V AC/DC

- Astro program: calculation of sunrise and sunset times through date, time and location coordinates
- **ASTRO settings simulator - Finder Toolbox App**
- Location coordinates easily settable for most European countries through Post codes
- Offset function: allows programming of switching times offset from the astronomic time (by up to 90 min, in 10 min steps)
- Functions: - ON / OFF
  - PULSE
  - ASTRO

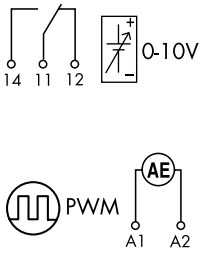



**Combines weekly programming functionality with astro time switch functionality.**

**Lighting management** - Type 12.A2, you can set the security lights in the garden or on the patio to turn on at sunset every day, delaying them if required, and at the same time programme the patio lights to turn on only at a certain time in the evening at weekends. Each light can then be turned off automatically at sunrise or at a programmed time.

# Astro time switch
## Type 12.A4



Type 12.A4.8.230.0000: 1 CO 16 A 230 V AC

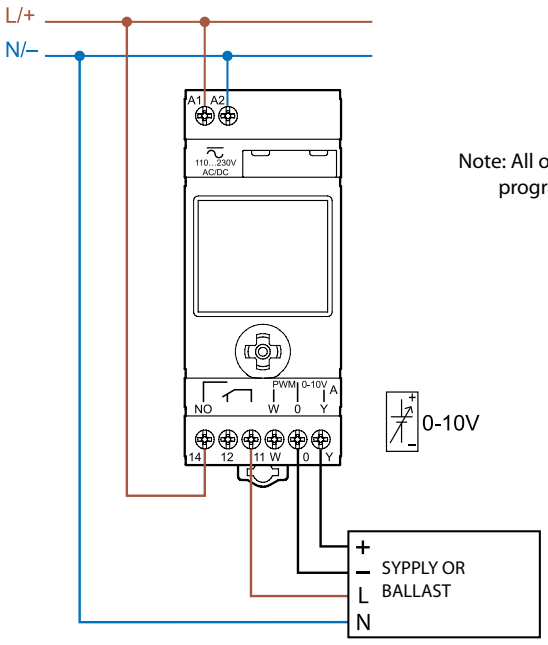
## Astro time switch with analogue output: 0-10V or PWM

**Ideal for the timed control of artificial lighting of shop windows, advertising billboards and similar, while accounting for the seasonal variation of sunrise and sunset.**
**Compatible with power supply/ballasts with 0-10V or PWM inputs.**

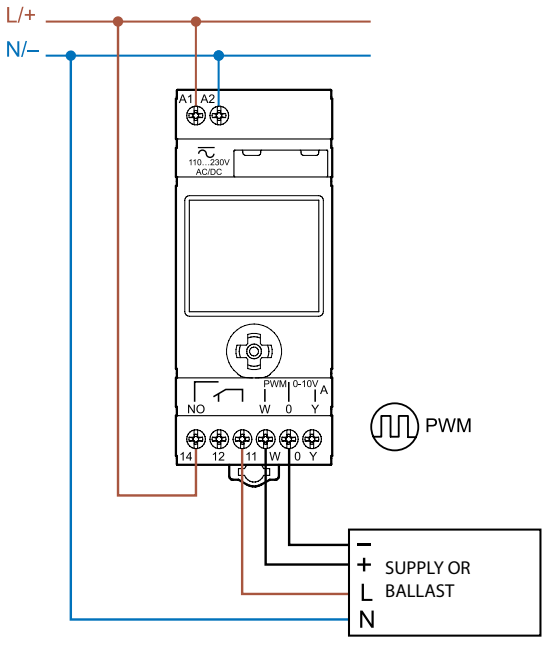
**Analogue output characteristics:**
- **Output signal: 0-10 V, 10mA max**
- **Output signal: PWM 30 V, 20 mA max**

It is possible to manage the light level of the lights using the astro mode or weekly programming

- Compatible with power supply/ballasts with 0-10V or PWM inputs
- Weekly programming
- Astro program: calculation of sunrise and sunset times through date, time and location coordinates
- **Astro settings simulator - Finder Toolbox App**
- Location coordinates easily settable for most European countries through Post codes
- Offset function: allows programming of switching times offset from the astronomic time (by up to 90 min, in 10 min steps)
- Auxiliary contact dependent on analogue output programming designed to interrupt the ballast phase during shutdown




Note: All outputs follow the same programming/schedule.

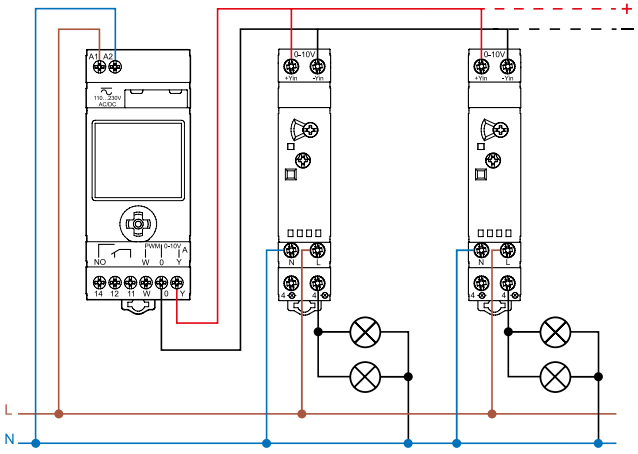


## Light dimming based on time and/or Astro settings

Astro time switch
Type 12.A4

+

Slave Dimmer
Type 15.11




Application example with slave dimmer Type 15.11 (Max. 10)

The Type 12.A4 is the ideal product for increasing or decreasing the light intensity of lamps at pre-set times.
A solution that allows you to lower the level of lighting to achieve courtesy lighting and helps to significantly reduce light pollution.

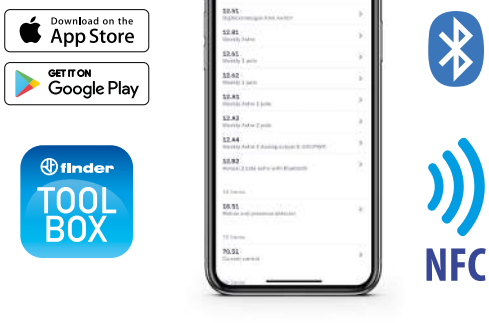
LED **Shop window lighting**

NEON **Illuminated signs**

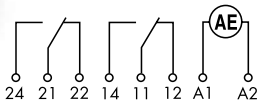
# Annual Astro time switch with Bluetooth / NFC

## Type 12.B2

**THE MOST COMPLETE**



**Synchronizable via wireless GPS antenna (Type 012. BG.8.230) and expandable via Bluetooth inputs and outputs (Type 1Y.P2 and Type 13.21-B000).**




Type 12.B2.8.230.0000: 2 CO 16 A - 110…230 V AC

- **ASTRO settings simulator - Finder Toolbox App**
- Annual programming with advanced functions
- Bluetooth 5 + NFC for app configuration and expandability
- inputs and outputs expandable via 1Y.P2 and 13.21-B000

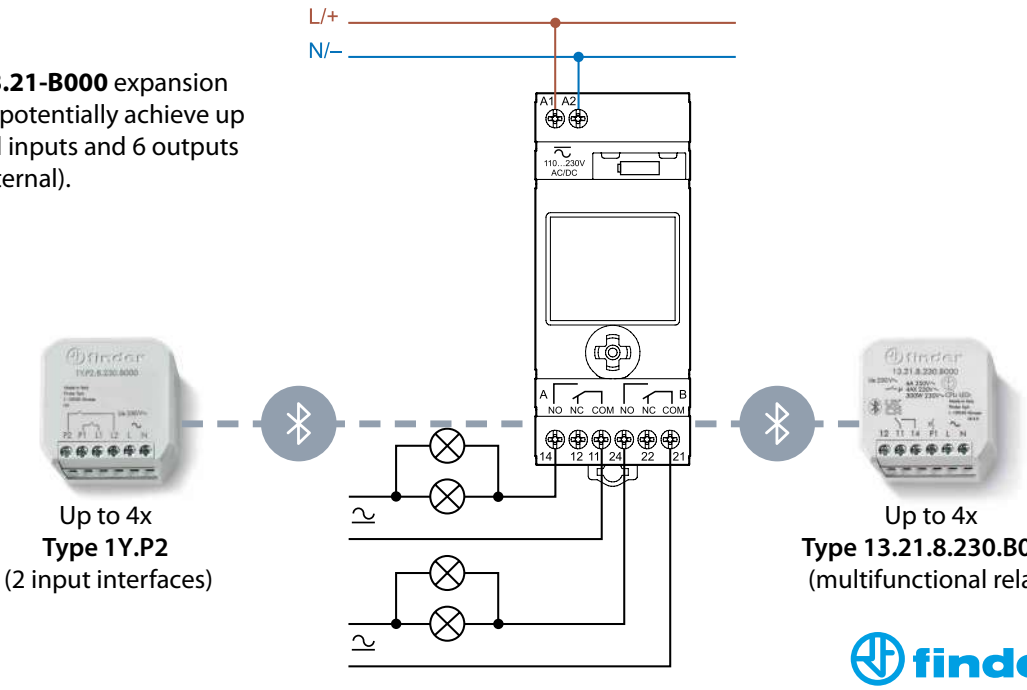
Weekly programming
specific for different periods or days

Functions **"Classic"**:
- "Astro" ON, "Astro" OFF
- Switch ON, Switch OFF
- Pulse: 1s…59 min
- ASTRO PULSE

"Smart" programming via Smartphone - Android and Apple - with Bluetooth and NFC technology.
The functions that can be set from the joystick are also included in the app Finder Toolbox:
- **RANDOM** (random switching)
- **CYCLIC** (repeated pulses)
- **TIMER WITH CORRECTION**

### Expandability

Using Types **1Y.P2** and **13.21-B000** expansion units the time switch can potentially achieve up to 8 configurable external inputs and 6 outputs (2 on the device and 4 external).




Up to 4x
**Type 1Y.P2**
(2 input interfaces)

Up to 4x
**Type 13.21.8.230.B000**
(multifunctional relay)

# Weekly Astro time switch with Bluetooth

## Type 12.C1

Download on the App Store

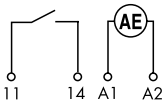
GET IT ON Google Play

finder TOOL BOX

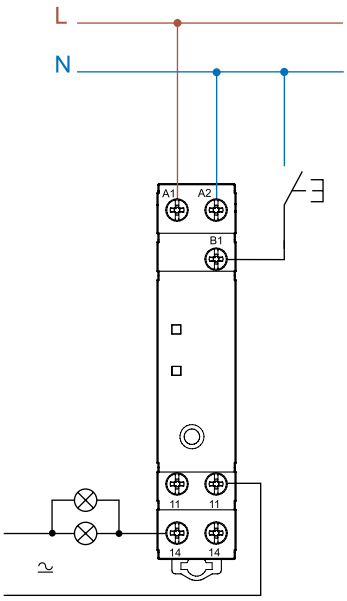
**Simple but effective.**

- **Programming via smartphone – Android and Apple – with Bluetooth technology**
- 1 NO 10 A
- Calculation of sunrise and sunset times through date, time and location coordinates
- Lock with a 4-digit PIN
- **Without Internal battery, one week power reserve**
- 17.5 mm wide
- GPS antenna synchronization
- **Astro settings simulator - App Finder**

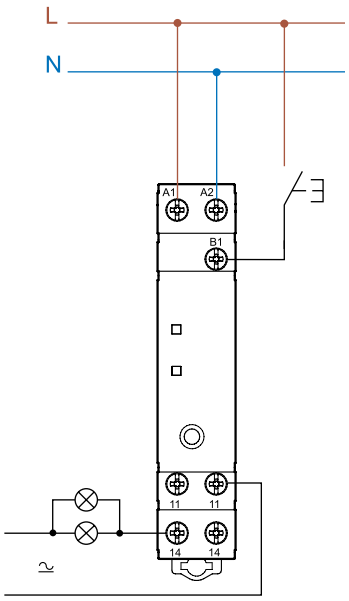
Type 12.C1.8.230.B000: 1 NO 10 A - 100…230 V AC




**B1 push-button on neutral**




**B1 push-button on phase**




Holiday program

One week power reserve

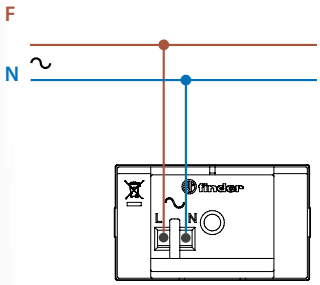
Astro, time, pulse and astro pulse functions

External switching push-button

# GPS External antenna Bluetooth

## Type 012.BG

## Synchronizes the date and time of Types 12.B2 and 12.C1




**Type 12.B2 Bluetooth GPS antenna for date and time synchronization. The antenna sends accurate times every day - synchronizing all Type 12.B2 within Bluetooth range to ensure precision time alignment.**
**No limit to number of synchronizable Type 12.B2 time switches**

Type 012.BG.8.230: power supply 110…230 V AC

- Synchronize via external wireless GPS antenna (Type 012.BG.8.230)
- Outdoor installation (IP 54)
- The external antenna operates via Bluetooth Long Range and avoids the need for cables between the transmitter and receivers

Install the antenna on an external wall - best results if situated on the outside face

### Range extender

Type 1Y.E8 range extenders can be used to extend the Bluetooth signal to reach other devices if they are out of Bluetooth range.

Type 12.B2 and Type 12.C1 | Type 1Y.E8 | Type 012.BG

**Ideal for schools, public lighting and advertising, small automation systems and shops.** Example: inside a school building, you can programme the bell to ring only on certain days and months, taking into account school holidays. In apartment buildings, the irrigation system can be set to activate only during certain periods.

# PUSH-BUTTON SWITCHING FOR TYPES 12.B2 AND 12.C1

## Application example

Both devices are digital astro time switches that can be programmed using the Finder Toolbox app. Specifically designed to manage lighting loads based on sunrise and sunset times (Astro function) and programmed time schedules.

**Practical example**
Night-time switching (sunset switch-on, night-time switch-off, sun-rise switch-on) is a standard feature for Type 12.B2 and Type 12.C1 devices.

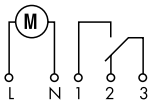
Therefore, you can configure the devices to:
- Switch on automatically at sunset (Astro ON)
- Switch off at 02:00
- Switch back on at 04:00
- Switch off automatically at sunrise (Astro OFF)

**Manual Intervention**
If the user needs the lights on during a time slot programmed as 'OFF' (e.g. at 03:00), they can force the lights to switch on. This manual switchover is temporary. The device will remain in the 'ON' state until the next programmed event.

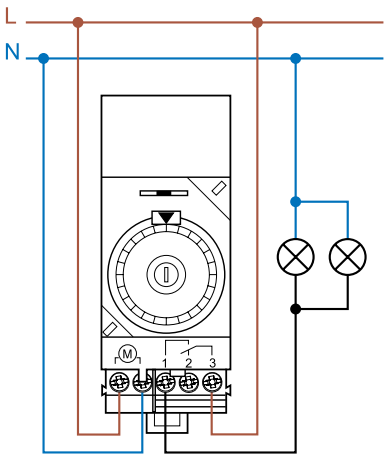
Consequently, when the time switch reaches the automatic switch-off time at sun rise (Astro OFF), it will execute the command and switch off the lights, thus resuming the automatic cycle.

| | 12.B2 | 12.C1 |
|---|---|---|
| Uses Type 1Y.P2 Input Interface | ✓ | |
| Push button wired directly to the device | | ✓ |
| Change status (until the next scheduled event) | ✓ | ✓ |
| Status override function (ON or OFF) | ✓ | |
| Staircase lighting function | ✓ | |

## Daily
### Type 12.01.8.230.0000

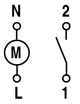


- 1 CO 16 A
- Nominal voltage : 230 V AC
- With power back-up: 100 hours
- Minimum time interval setting: 30 minutes



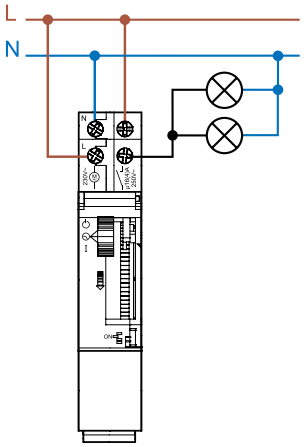

Selector switch:
- ⏲ = Permanently OFF
- AUTO = Automatic
- I = Permanently ON

## Daily
### Type 12.11.8.230.x000



- 1 CO 16 A
- Nominal voltage : 230 V AC
- Minimum time interval setting: 15 minutes

- Type 12.11.8.230.0000 with power back-up: 100 hours
- Type 12.11.8.230.1000 without power back-up




Selector switch:
- ⏲ = Permanently OFF
- ⏲ = Automatic
- I = Permanently ON

# Daily

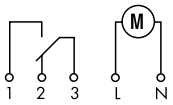
## Type 12.31.8.230.0000

## Same program every day

# Weekly

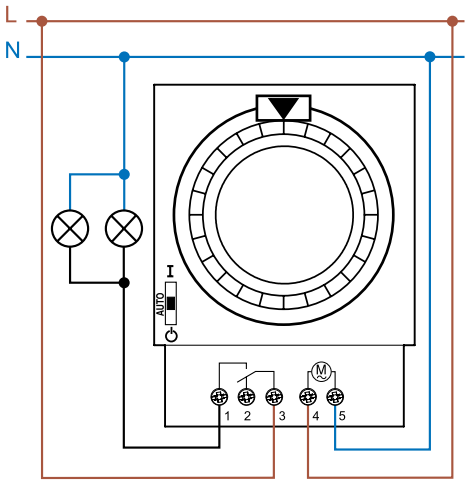
## Type 12.31.8.230.0007

## Different program possible for each of the 7 days of the week



- 1 CO 16 A
- Nominal voltage: 230 V AC

- Type 12.31.8.230.0000, minimum time interval setting: 15 minutes
- Type 12.31.8.230.0007, minimum time interval setting: 1 hour



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