

finder 12.A1 Time Astro Switch



finder 12.A1 Time Astro Switch User Guide

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DIGITAL ASTRO TIME SWITCH

Programmable with NFC technology with the App FINDER TOOLBOX downloaded from Google Play™ – Apple Store.

DISPLAY INDICATORS

EN 60669-1 / EN 60669-2-1

12.A.8.230.0000
 U_N 110...230 V AC (50/60 Hz)/DC
 U_{min} - U_{max} 90 V - 264 V (AC/DC)
 P 2.8 VA (50 Hz)/0.9 W

12.A.2.0.024.0000
 U_N 12...24 V AC (50/60 Hz)/DC
 U_{min} - U_{max} 10 V - 30 V (AC/DC)
 P 2.2 VA/1.2 W

1 CO (SPDT) (12.A1)
2 CO (DPDT) (12.A2)
16 A 250 V AC
AC1 4000 VA
AC15 (230 V AC) 750 VA

(230 V) 2000 W
(230 V) 750 W
CFL-LED (230 V) 400 W

(-20...+50°C)

IP20

1

A B C D E F G H

ON ASTRO OFF PULSE

ON ASTRO OFF PULSE

Download on the App Store

GET IT ON Google Play

12.A1

L/+

N/-

A1 A2

A1 A2

14 12 11 24 22 21

12.A2

L/+

N/-

A1 A2

A1 A2

14 12 11 24 22 21

cULus

Operating Control, Independently mounted

Panel mounting, Type 1 Action

Pollution Degree 2, Impulse Voltage 4000 V (800 V for 12...24 V models)

Terminals nominal torque: 0.8 Nm

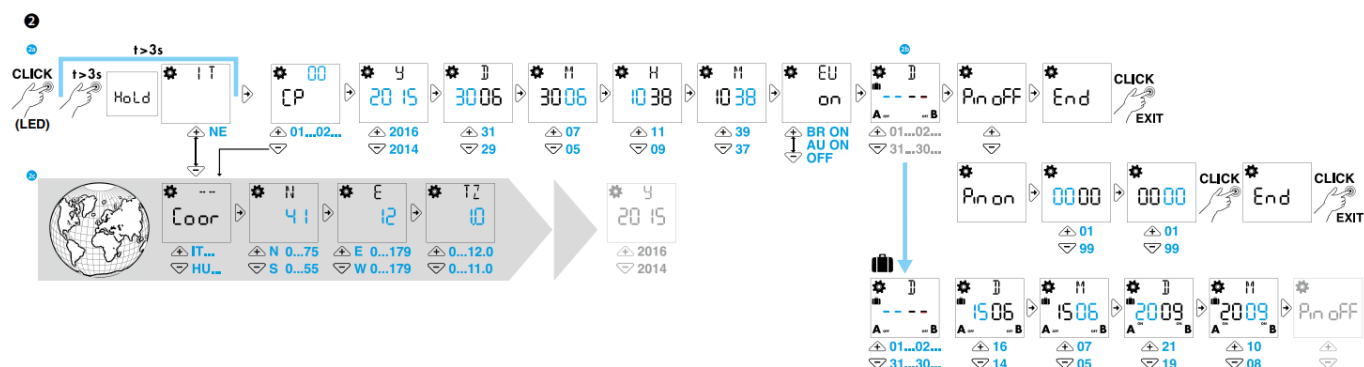
The battery can be replaced only by the manufacturer or competent personnel

The device can be installed and configured only by the installer or a qualified installer

- A Setting Menu
- B Days of the week (1=Mon...7=Sun)
- C Holiday program
- D Permanent Manual over-ride activated – channel A
- E Channel A functions (ON, OFF, Astro ON, Astro OFF, Pulse)
- F Day – Advanced/Retarded – seconds/minutes

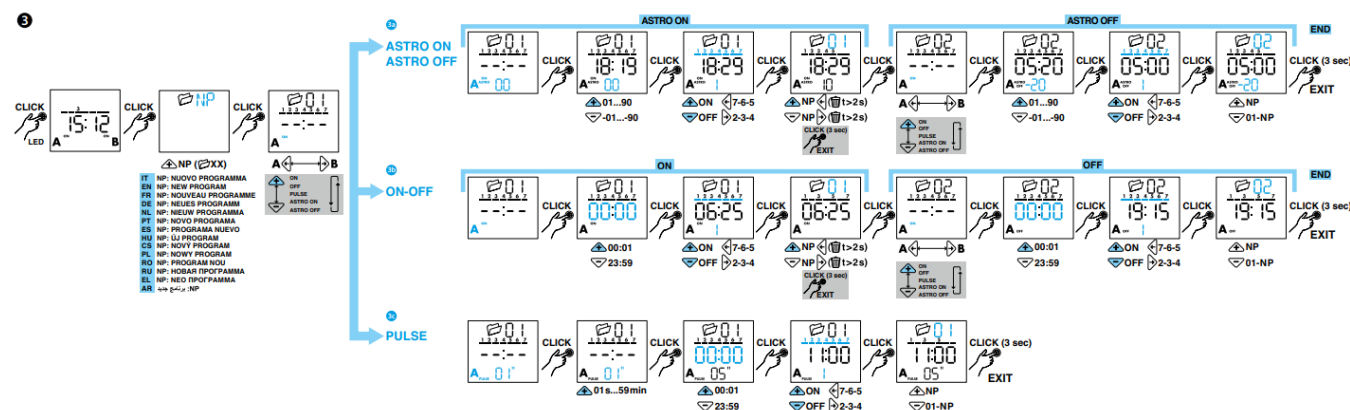
- G Channel B functions (ON, OFF, Astro ON, Astro OFF, Pulse)
- H Permanent Manual over-ride activated – channel B (12.A2 only)
- ITime-CP (postcode), year, day, month, hours, minutes, daylight saving ON/OFF, holiday program (Start: day/month. Finish: day/month) PIN ON/OFF, End
- L Time switch without power supply (powered by battery) – Low battery (with power supply) MCancel
- N Program number (max 50) – IT (country), CP (leading two characters of CP), Coor (geographic coordinates in degrees), N(North)/ S(South), E(East)/W(West), TZ(Time zone), Y(year), D(day), M(month), H(hour), M(minutes), Daylight saving ON/OFF (EU=Europe – BR=Brazil – AU=Australia) Holiday program (Start: day/month. Finish: day/month)
- O Programming

SETTINGS (examples)



- **Setting:** Country, CP (leading two characters of CP), year, day, month, hour, minutes, EU (daylight saving)
- **Holiday program (Start:** day/month. Finish: day/month), PIN, END
- Setup by geographic coordinates. Start at 2a, but at the select Country or select CP stage, scroll down to enter the Coor setting. Continue by setting the coordinates and time zone. Latitude: North-South. Longitude: East-West. Time zone(TZ)

PROGRAMMING (examples)



- 3a ASTRO ON – ASTRO OFF Function (18:19 Astro ON + retarded 10 min – 05:20 Astro OFF + advanced 20 min); Day: Mon...Fri
- 3b ON – OFF Function (6:25 ON – 19:15 OFF, Mon, Wed, Fri, Sun)

- 3c PULSE function (11:00 pulse 5 s, Mon Wed Fri)

MANUAL MODE

4

4a



4b



4c

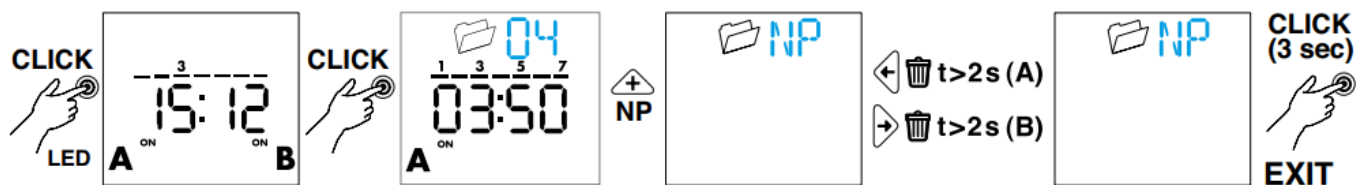


4d

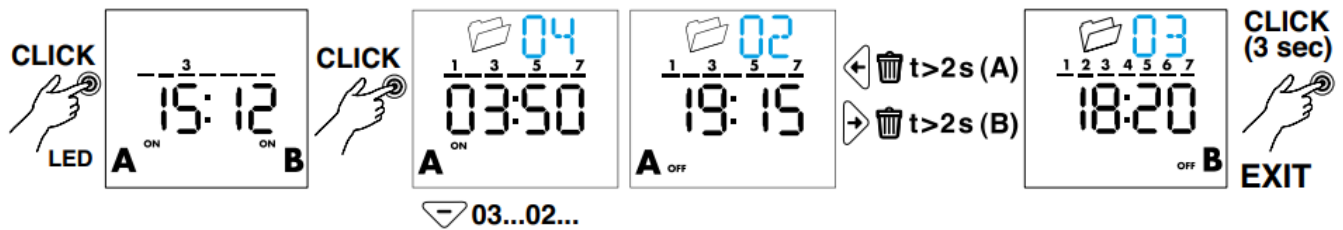


- Manual ON/OFF channel A
- Manual ON/OFF channel B (only 12.A2)
- Permanent Manual over-ride ON/OFF – Channel A
- Permanent Manual over-ride ON/OFF – Channel B (12.A2 only)

DELETION of all program



DELETION of single program



NOTE

- **Battery replacement:** BATTERY CR 2032 (LiMnO₂) 3V, 230mAh. Complies with Article 11, EU directive 2006/66/CE. Dispose of batteries according to local regulations
- Back-light display (only with power supply)
- Minimum switching interval: 1 second (pulse function)
- ASTRO times vary over the year, time switch times remain constant

Specifications

- Model: 12.A1/A2 Digital Astro Time Switch
- Technology: Programmable with NFC technology using the App FINDER TOOLBOX
- Power Supply:
 - 12.A1: UN 110-230 V AC (50/60 Hz)/DC U_{min} – U_{max} 90 V – 264 V (AC/DC) P 2.8 VA (50 Hz)/0.9 W
 - 12.A2: UN 12-24 V AC (50/60 Hz)/DC U_{min} – U_{max} 10 V – 30 V (AC/DC) P 2.2 VA/1.2 W
- Contact Rating:
 - 12.A1: 1 CO (SPDT) – 16 A 250 V AC
 - 12.A2: 2 CO (DPDT) – 16 A 250 V AC
- Operating Temperature: 0 to 75°C
- Protection Rating: IP20

Frequently Asked Questions (FAQ)

Q: Can the device be installed by anyone?

A: The device should only be installed and configured by a professional installer or qualified personnel to ensure proper setup and operation.


Q: What is the minimum switching interval for the pulse function?

A: The minimum switching interval is 1 second for the pulse function.

Q: How do I program the holiday schedule?

A: To set up the holiday program, enter the start and finish dates along with the required PIN code in the settings menu.

Documents / Resources

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|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|  | finder 12.A1 Time Astro Switch [pdf] User Guide 12.A1 Time Astro Switch, 12.A1, Time Astro Switch, Astro Switch |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|

References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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