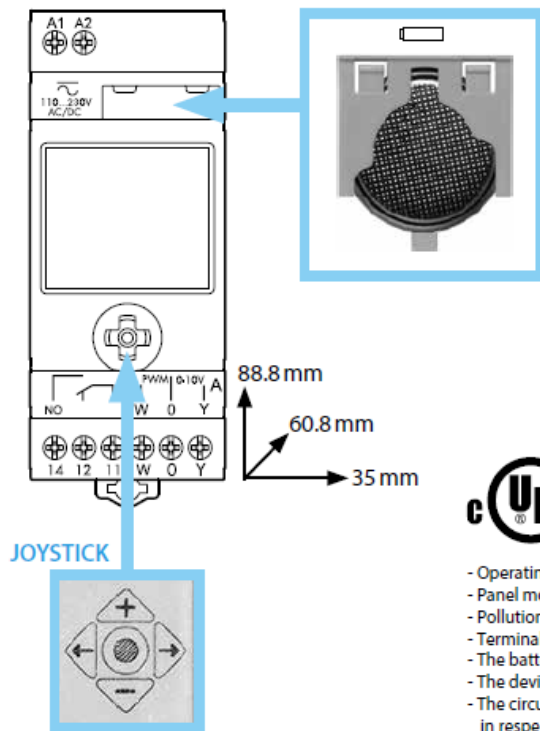# Manuals+

Contents [hide]

Finder 12.A4 Digital Astro Time Switch

Specifications

- Model: 12.A4
- Brand: Finder S.p.A.
- Country of Origin: Italy
- Output Signal: 0-10 V or PWM
- Maximum Cable Length: 20m (0-10 V), 10m (PWM)
- Resolution: 1%
- Compliance: EN 60669-1 / EN 60669-2-1
- Input Voltage: 110-230 V AC (50/60 Hz) / DC
- Minimum Input Voltage: 90 V AC / DC
- Maximum Input Voltage: 264 V AC / DC
- Power Consumption: 2.8 VA (50 Hz) / 0.9 W

EN 60669-1 / EN 60669-2-1	
⊏⊐	12.A4.8.230.0010 U_N 110...230 V AC (50/60 Hz) /DC U_{min} 90 V AC / DC U_{max} 264 V AC / DC P 2.8 VA (50 Hz) /0.9 W
⌐_	1 CO (SPDT) 16 A 250 V AC PWM (300 Hz, max 30 V DC, 20 mA) 0-10 V (max 10 mA)
	AC1 4000 VA AC15 (230 V AC) 750 VA
🌡	(−20…+50)°C
IP20	

- Operating Control, Independently mounted
- Panel mounting, Type 1 Action
- Pollution Degree 2, Impulse Voltage 4000 V
- 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
- The circuit connected to PWM / 0-10 terminals must present at least a basic insulation in respect to the line circuit
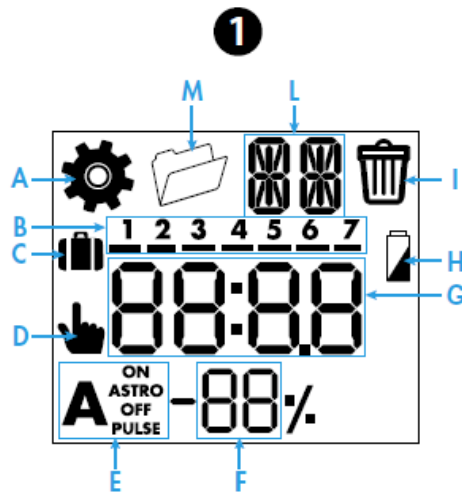
Product Usage Instructions

1. Display Indicators

- A. Setting
- B. Days of the week (1=Mon…7=Sun)
- C. Holiday program
- D. Permanent Manual Mode (active)
- E. Channel A functions: Astro ON, Astro OFF, Pulse (TIMED event + 0-10 V / PWM)
- F. Day – Advanced/Retarded – % output signal
- G. Time, postcode (CP), percentage change in output power per

DIGITAL ASTRO TIME SWITCH with ON/OFF CONTACT OUTPUT and (0-10 V or PWM) SIGNAL OUTPUT

The 0-10 V / PWM output signal can be programmed to ramp up or down to the programmed output value 5 F , at a predetermined rate of change (PI) 4 A "Switching" times are easily set using either the seasonally variable times of the Astro SUNSET and Astro SUNRISE functions, or the specific, fixed time-of-day of the TIMED function – or any combination of all three.
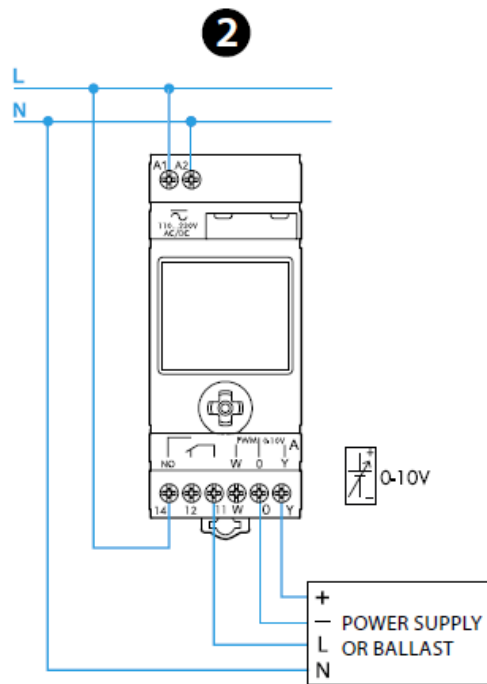
DISPLAY INDICATORS

- A Setting

- B Days of the week (1=Mon…7=Sun)

- C Holiday program

- D Permanent Manual Mode (active)

- E Channel A functions: Astro ON, Astro OFF, Pulse (TIMED event + 0-10 V / PWM)

- F Day – Advanced/Retarded – % output signal

- G Time, postcode (CP), percentage change in output power per second (PI), year (Y), day (D), month (M), hours (H), minutes (M), Daylight saving ON/OFF, Holiday program [Start: D (day), M (month). Finish: D (day), M (month)] PIN, exit menu (END)

- H – Low battery (with power supply) – Time switch without external power (powered by battery)

- I Cancel

- L Event memory location (max 50) – Country, Leading two characters of CP,

- PI, [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, MX: Mexico)[holiday program: Start: day(D), month(M); Finish: day(D), month(M)]
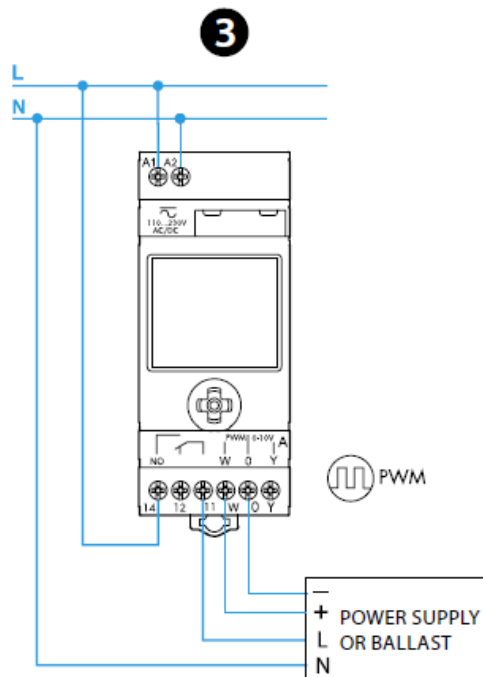
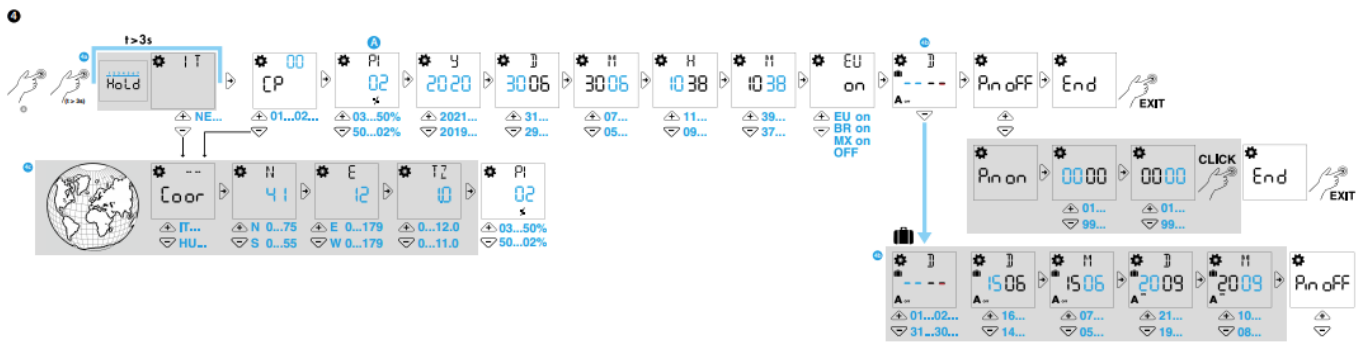- M Saved event

WIRING DIAGRAM

output 0-10V

WIRING DIAGRAM:

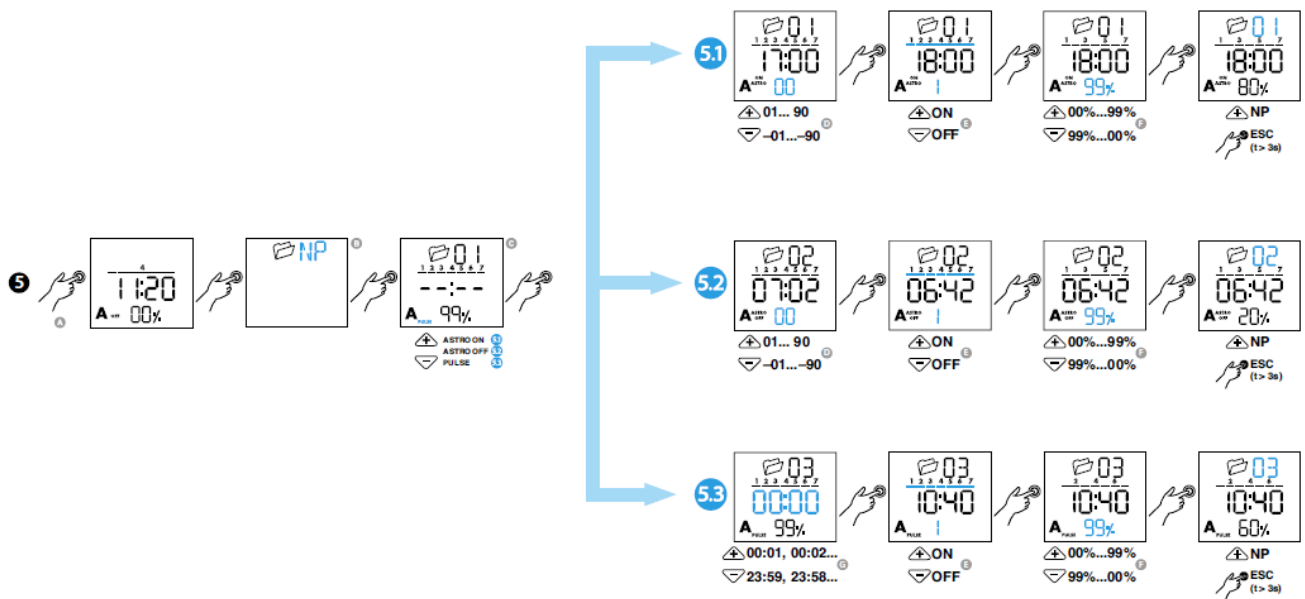output PWM

SETTINGS

(examples)

- A Back-lit display (only when externally powered)
- 4a Setting: Country (IT), CP (leading two characters of CP), percentage change in output power per second (PI), year(Y), day(D),month(M), hour(H), minutes(M), Daylight saving ON/OFF (EU: Europe, BR: Brazil, MX: Mexico), PIN, exit menu (END)
- 4b Holiday program (Start: day/month. Finish: day/month), PIN, exit menu (END)
- 4c Setup by geographic coordinates. Start at 4a, select Country IT or CP 00 stage, scroll down with $\bigtriangledown$. Continue by setting the coordinates and time zone. Latitude: North (N) – South (S).
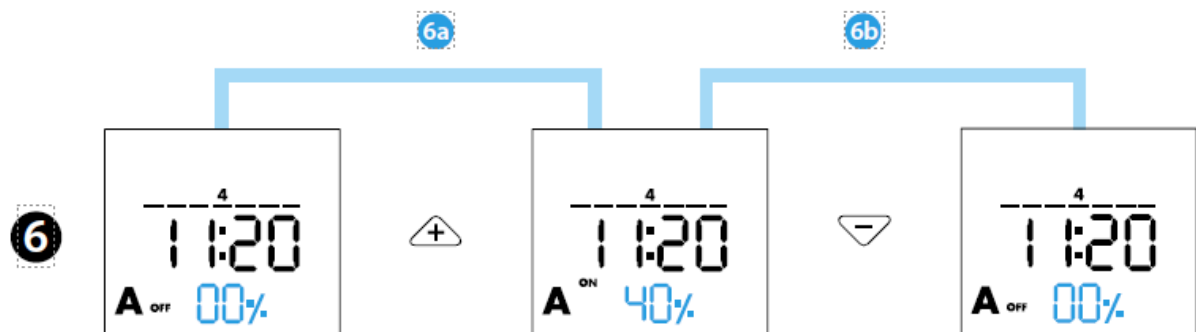 Longitude: East (E) – West (W). Time zone(TZ)

PROGRAMMING

(examples)

- A Back-lit display (only when externally powered)
- B NP: New Programming event
- C 01, 02..: event memory location (Max 50)
  - 5.1 ASTRO ON: Signifies programming the Astro SUNSET conditions – advance/retard D – applicable days E – required % output setting (0-10V / PWM) F
  - 5.2 ASTRO OFF: Signifies programing the Astro SUNRISE conditions – advance/retard D – applicable days E – required % output setting (0-10V / PWM) F
  - 5.3 PULSE: Signifies programing the conditions for a TIMED event – time of event G – applicable days E – required % output setting (0-10V / PWM) F
- D Advance or retard from the Astro time (up to 90 minutes)

- E Set applicable day(s) of the week (1 = Mon … 7 = Sun)
- F Set % value of the output signal (0-10 V / PWM)
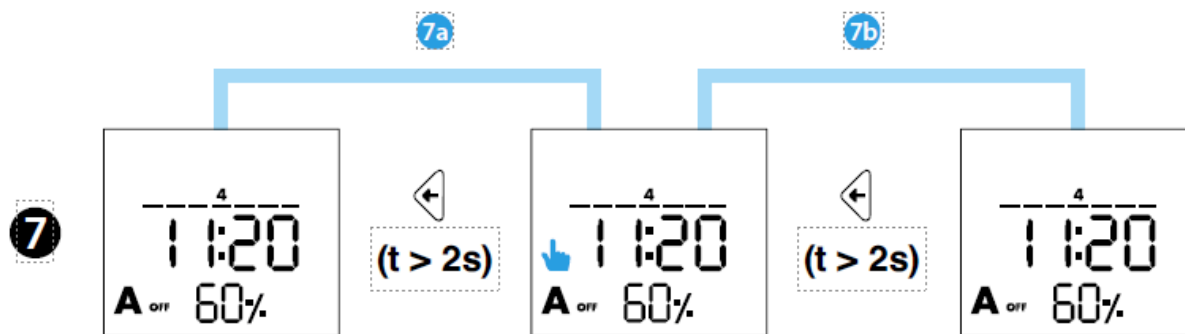- G Set time of day for TIMED event (00:00 … 23:59)

MANUAL MODE

(Manually change the current output value)

Pushing the joystick towards ⊕ (6a) or towards ▽ (6b) it is possible to modify the value of the output signal between 1% and 99%. Note: the output contact (11-14) will be open for values below 10%, and will be closed for values above 10%.
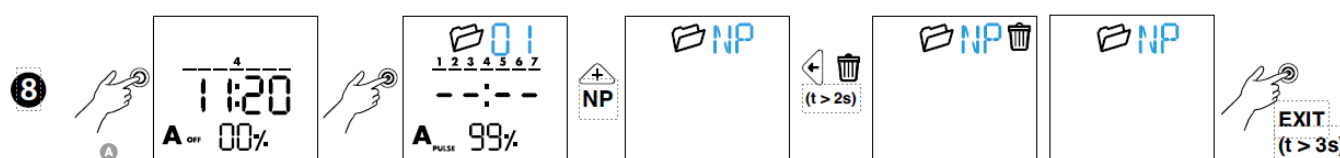
NB: This setting will remain in force until the next programmed event.

PERMANENT MANUAL MODE

By activating the permanent manual mode 7a, the program of events will be ignored (whilst the current signal output level is maintained). De-activating the mode 7b, and the device returns to follow the program of events, responding to the next occurring event.
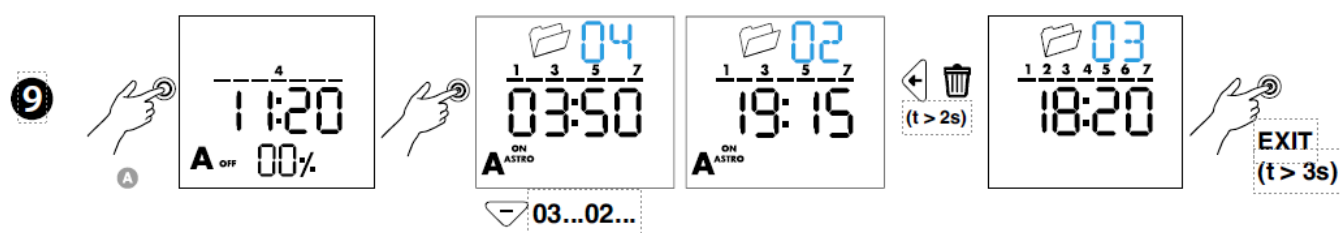
DELETION of all programmed events

A Back-lit display (only when externally powered)

DELETION of a single programmed event

A Back-lit display (only when externally powered)

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-lit display (only when externally powered)
- ASTRO times vary over the year
- PWM 0% = output contact open

- (0-10 V) ≤9% = output contact open
- Maximum cable length: 20 m (0-10 V) – 10 m (PWM) – PWM: setting 0-99% – resolution 1% – 0-10 V: setting 0-99% – resolution 1%

Frequently Asked Questions

Q: What is the maximum cable length for the 0-10V and PWM outputs?

A: The maximum cable length is 20m for 0-10V output and 10m for PWM output.

Q: What is the resolution of the output settings?

A: The resolution for both 0-10V and PWM settings is 1%.

Q: How do I activate the Permanent Manual Mode?

A: To activate the Permanent Manual Mode, follow the instructions provided in the manual under section 7.

Documents / Resources

	[finder 12.A4 Digital Astro Time Switch](#) [[pdf](#)] User Manual 12.A4, 12.A4 Digital Astro Time Switch, 12.A4 Switch, Digital Astro Time Switch, Digital Switch, Astro Time Switch, Astro Switch, Time Switch, Switch

References

- [User Manual](#)

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