



12.A4



IB12A4 - 03/25 Finder S.p.A. con unico socio 10040 ALMESE (TO) - ITALY

ENGLISH

12.A4 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), 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 Settina
- 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, Pl. [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
- 4 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 —. Continue by setting the coordinates and time zone. Latitude: North (N) - South (S). Longitude: East (E) - West (W). Time zone(TZ)

FROGRAMMING (examples)

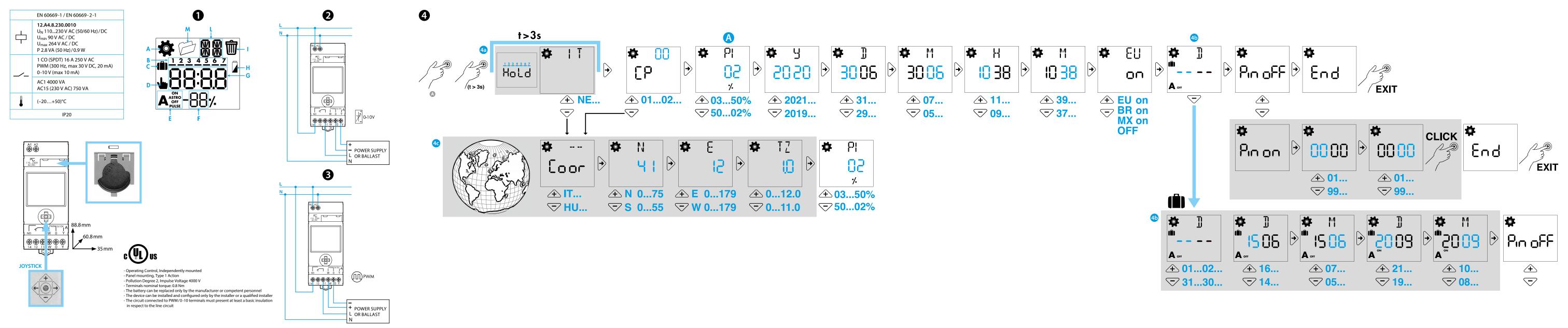
- Back-lit display (only when externally powered)
- **NP**: New Programming event
- 01, 02...: event memory location (Max 50)
- 5.1 ASTRO ON: Signifies programming the Astro SUNSET conditions advance/retard D - applicable days E - required % output setting (0-10V / PWM) F
- 5.2 ASTRO OFF: Signifies programing 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
- Advance or retard from the Astro time (up to 90 minutes)
- Set applicable day(s) of the week (1 = Mon ... 7 = Sun)
- Set % value of the output signal (0-10 V / PWM)
- Set time of day for TIMED event (00:00 ... 23:59)
- 6 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.

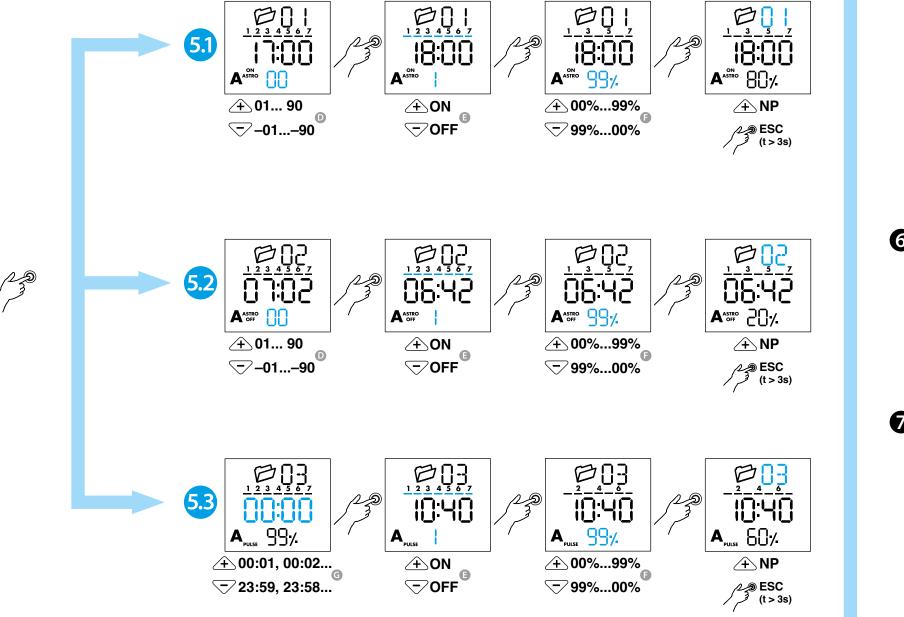
PERMANENT MANUAL MODE

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.

- 8 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
 - $(0-10 \text{ V}) \leq 9\%$ = 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%







1234567

ASTRO ON ASTRO OFF SPULSE

A_{pulse} 99/

---4 | |:-| | **A** off | || || ½

