## TR 641 top3







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## **Function description**

- Digital time switch with yearly and astronomical time program •
- App programming possible thanks to integrated BLE module
  - Extensive yearly time switching functions •
- Astronomical switching function (automatic calculation of sunrise and sunset times for the whole year)
  - Astro selectable per channel "3 astro ranges: sunset, twilight, darkness"
    - Earth Hour pre-programmed until 2044 •
  - Time synchronisation via connection of external DCF or GNSS antennas, additional posititioning for astronomical program with GNSS
    - 1 channel •

- External input •
- Connectable sensors (external selector switch, sequence timer)
  - Connectable switches (ON or OFF permanent switching)
    - DuoFix spring terminals
      - For 2 conductors each •
    - Wire or strand (with or without wire end sleeve)
      - Wire diameter: 0.5 2.5 mm<sup>2</sup> •
      - Button for releasing plug-in connection •
      - Text-oriented user guidance in display
        - Preset date and time .
      - fully operable without mains connection
        - 800 memory locations •
  - Interface for OBELISK top2 memory card (PC programming)
    - 2. insertable switching program
      - Copying programs •
      - Storing programs •
    - 10 year power reserve (lithium battery) •
- Zero-cross switching for leay-saving switching and high lamp loads (not with 24 V devices)
  - Automatic summer/winter time changeover
    - can be deactivated .
  - Date rule options are already stored for Europe, the USA and other countries
    - own date rule options or changeover around set dates are available
      - ON-OFF switching times
        - Pulse program •
        - Cycle program •
      - Extensive yearly clock functions •
- Basic weekly program and 14 different weekly programs with priority levels and date ranges
  - Permanent ON / permanent OFF with highest priority via date range program option •
- fixed and variable public holidays, public holidays dependent on Easter, day and date ranges with serial pattern
  - Public holiday database for Germany including all Federal states, Switzerland, France etc.
    - Program simulation on clock display •
- Astronomical time switch function (automatic calculation of sunrise and sunset times for the whole year)
  - Offset for adjusting of sunrise and sunset times •
  - Position data via coordinates or country/city lists can be programmed •
  - Optional production of own city list (favourites) and a table with own astronomical times on PC
    - Fixed ON-OFF switching times can be programmed (e.g. night time interruption) •
  - Simulation of astronomical switching times (calculated astronomical times and programmed ON/OFF switching times) for the whole year
  - various astronomical setting options (evening ON mornings OFF or evenings OFF mornings ON, astronomical pulse)
    - Switching preselection •
    - Permanent switching ON/OFF
      - Count-down timer •
    - Integrated operating hour counter
      - Reset option •
    - Service function for monitoring maintenance intervals
      - Holiday program •
      - 2 random programs •
      - Display back light (can be turned off)
        - PIN coding •

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