

**TR 641 top2 RC**

**Article number: 6410300**

**Description**



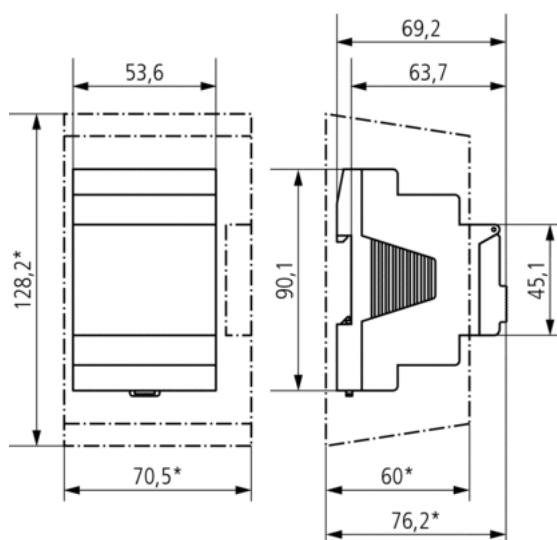
- Digital time switch with yearly and astronomical time program
- Time synchronisation via connection of external DCF or GPS antennas, additional positioning for astronomical program with GPS (GPS not with 24 V device)
- 1 channel
- External input
  - Connectable sensors (external selector switch, sequence timer)
  - Connectable switches (ON or OFF permanent switching)
- Extension module can be connected
- Memory card OBELISK top2 included in delivery
- 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
- OBELISK memory card included in delivery
- 10 year power reserve (lithium battery)
- Zero-cross switching for leay-saving switching and high lamp loads
- 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
- Graphic program simulation with 12 month overview for all channels on PC
- 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

**Technical data**

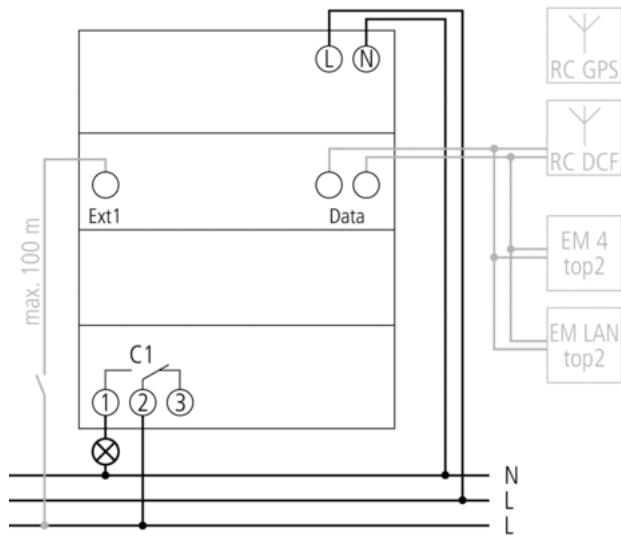
|                   |  |
|-------------------|--|
| Operating voltage | 110 – 240 V AC                           |
| Frequency         | 50 – 60 Hz                               |
| Width             | 3 modules                                |
| Installation type | DIN rail                                 |
| Type of contact   | Changeover contact                       |
| Switching output  | Phase-independent (Zero-cross switching) |
| Opening width     | < 3 mm                                   |
| Program           | Yearly program, Astronomical program     |

|  |  |
|--|--|
| Program functions                                    | ON-OFF, Pulse, Cycle   |
| Number of channels                                   | 1  |
| External inputs                                      | 1  |
| Number of memory locations                           | 800  |
| Power reserve  | 8 years  |
| Switching capacity at 250 V AC, $\cos \varphi = 1$   | 16 A   |
| Switching capacity at 250 V AC, $\cos \varphi = 0,6$ | 10 A   |
| Incandescent/halogen lamp load 230 V                 | 2600 W   |
| Incandescent/halogen lamp load 120 V                 | 1300 W   |
| Energy saving lamps 230 V                            | 37 x 7 W, 30 x 11 W, 26 x 15 W, 26 x 20 W, 11 x 23 W         |
| Energy saving lamps 120 V                            | 18 x 7 W, 15 x 11 W, 13 x 15 W, 13 x 20 W, 11 x 23 W         |
| Switching capacity min.                              | ca. 10 mA  |
| Shortest switching times                             | 1 s  |
| Time accuracy  | $\leq \pm 0,5$ s/day (quartz) or DCF77/GPS                   |
| Time basis   | Quartz/DCF77/GPS   |
| Stand-by consumption                                 | 1,2 W  |
| Memory card supplied                                 | ✓  |
| Type of connection                                   | DuoFix spring terminals                                      |
| Keyboards  | 4 touch buttons  |
| Housing and insulation material                      | High-temperature resistant, self-extinguishing thermoplastic |
| Type of protection                                   | IP 20  |
| Protection class                                     | II as per EN 60 730-1  |
| Ambient temperature                                  | -30 °C ... +55 °C  |

### Scale drawings



### Connection example



## Accessories

### Antenna top2 RC-GPS

- Article number: 9070610  
[Details ▶ www.theben.de](http://www.theben.de)



### EM 4 top2

- Article number: 6490104  
[Details ▶ www.theben.de](http://www.theben.de)



### EM LAN top2

- Article number: 6490900  
[Details ▶ www.theben.de](http://www.theben.de)



### Antenna top2 RC-DCF

- Article number: 9070410  
[Details ▶ www.theben.de](http://www.theben.de)



### Wall mounting kit 52,5 mm

- Article number: 9070050  
[Details ▶ www.theben.de](http://www.theben.de)



### PC set OBELISK top2

- Article number: 9070409  
[Details ▶ www.theben.de](http://www.theben.de)



### Memory card OBELISK top2

- Article number: 9070404  
[Details ▶ www.theben.de](http://www.theben.de)



### Front panel kit

- Article number: 9070001  
[Details ▶ www.theben.de](http://www.theben.de)

