TR 641 top2 | Article number: 6410100

Description

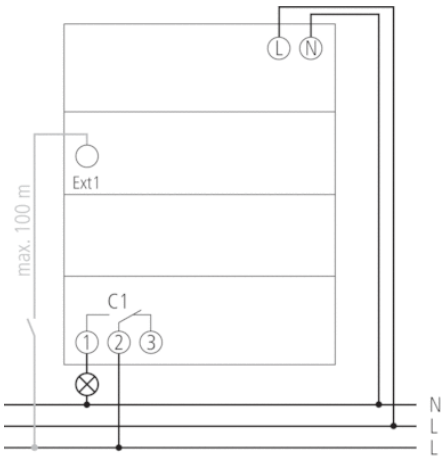
- Digital time switch with yearly and astronomical time program
- 1 channel
- External input
  - Connectable sensors (external selector switch, sequence timer)
  - Connectable switches (ON or OFF permanent switching)
- DuoFix spring terminals
  - For 2 conductors each
  - Wire or strand (with or without wire end sleeve)
  - Wire diameter: 0.5 - 2.5 mm²
  - 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
- 8 year power reserve (lithium battery)
- Zero-cross switching for relay-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
  - 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

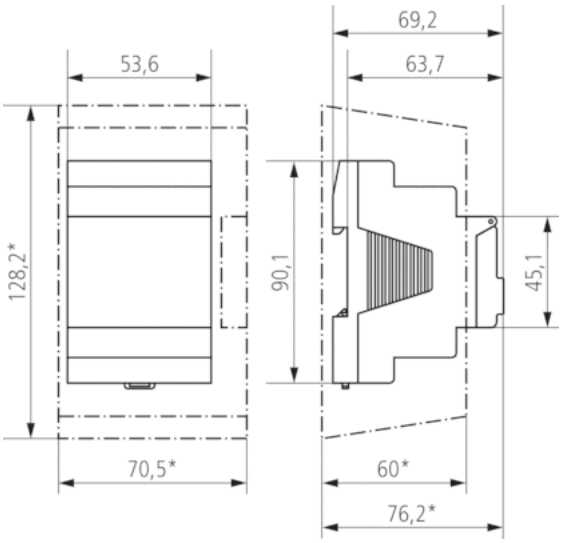
Technical data

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
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 φ = 1	16 A
Switching capacity at 250 V AC, cos φ = 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
LED lamp < 2 W	50 W
LED lamp 2-8 W	180 W
LED lamp > 8 W	200 W
Switching capacity min.	ca. 10 mA
Shortest switching times	1 s
Time accuracy at 25 °C	≤ ± 0.5 s/day (quartz)
Time basis	Quartz
Stand-by consumption	~0,6 W
Capacity loss max.	1,1 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 according to EN 60 730-1
Ambient temperature	-30 °C … +45 °C

Connection example



Scale drawings



Accessories

Wall mounting kit 52,5 mm

- Article number: 9070050
  Details ▸ www.theben.de

PC set OBELISK top2

- Article number: 9070409
  Details ▸ www.theben.de

Memory card OBELISK top2

- Article number: 9070404
  Details ▸ www.theben.de

Front panel kit

- Article number: 9070001
  Details ▸ www.theben.de