

TR 642 top2

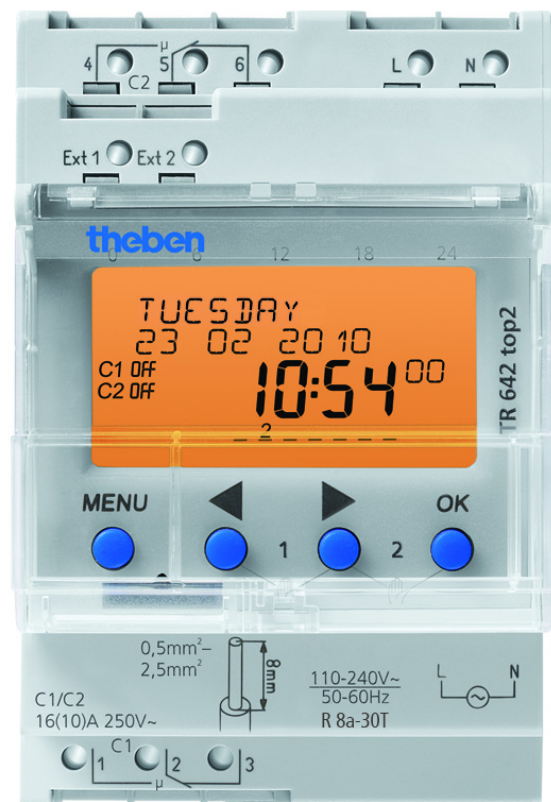
Item no.: 6420100

theben

Time and light control Digital time switches

Description

- Digital time switch with yearly and astronomical time program
- 2 channels
- 2 external inputs
- 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 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
- 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)



Subject to technical changes and misprints

additional information at: www.theben.de/product/6420100

The load data are determined with exemplary selected illuminants and are therefore typical data due to the large number of available products.

Description

- 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

| TR 642 top2 | |
|--|--|
| Operating voltage | 110 – 240 V AC |
| Frequency | 50 – 60 Hz |
| Width | 3 modules |
| Installation type | DIN rail |
| Type of contact | Two-way changeover contact |
| Switching output | Phase-independent |
| Opening width | < 3 mm |
| Program | Yearly program, Astronomical program |
| Program functions | ON-OFF, Pulse, Cycle |
| Number of channels | 2 |
| External inputs | 2 |
| 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 | 2600 W |
| Incandescent/halogen lamp load 120 V | 1300 W |
| Energy saving lamps | 37 x 7 W, 30 x 11 W, 26 x 15 W, 26 x 20 W, 11 x 23 W |

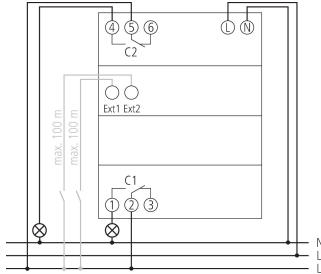
| TR 642 top2 | |
|---------------------------------|--|
| Energy saving lamps 120 V | 18 x 7 W, 15 x 11 W, 13 x 15 W, 13 x 20 W, 11 x 23 W |
| LED lamp < 2 W | 50 W |
| LED lamp 2-8 W | 180 W |
| LED lamp > 8 W | 200 W |
| Switching capacity min. | ca. 10 mA |
| Shortest switching times | 1 s |
| Time accuracy at 25 °C | $\leq \pm 0.5$ s/day (quartz) |
| Time basis | Quartz |
| Stand-by consumption | ~0.6 W |
| Capacity loss max. | 2.2 W |
| Memory card supplied | - |
| Type of connection | DuoFix spring terminals |
| Display | LCD |
| 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 |
| Voltage | 110-240 V AC |
| Ambient temperature | -30°C ... 45°C |

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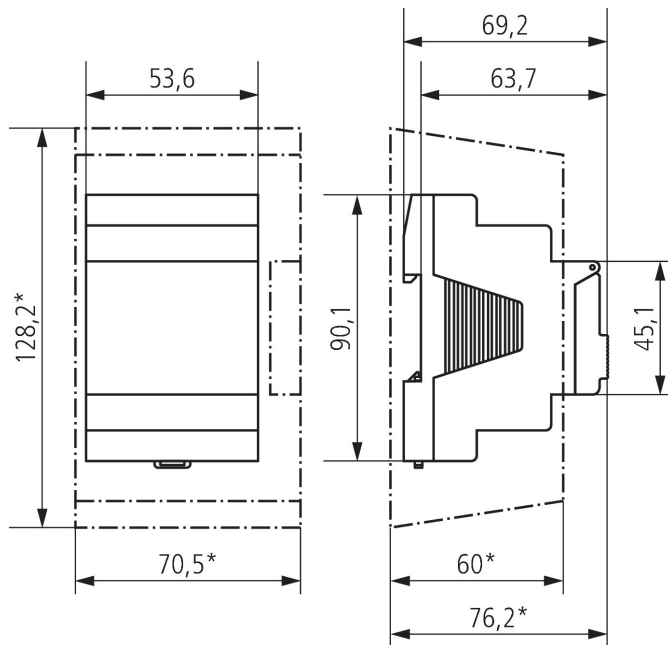
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Connection example



Scale drawings



Accessories

Wall mounting kit 52,5 mm
Item no.: 9070050



PC set OBELISK top2/3
Item no.: 9070409



Memory card OBELISK top2
Item no.: 9070404



Front panel kit
Item no.: 9070001



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