

# theben

TR

TR 635 top2 6350100

TR 636 top2 6360100

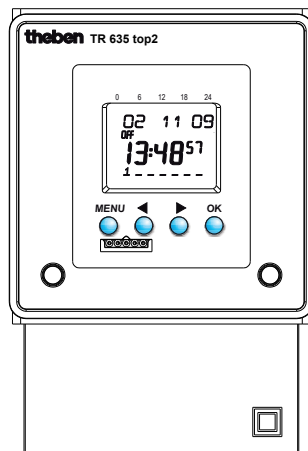
## Installation and operating instructions

Digital time switch  
with weekly program



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**GB**



TR 635 top2

Connection of  
different external  
wires is permitted

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## Basic safety instructions



**WARNING**

**Danger of death through electric shock or fire!**

- Installation should only be carried out by a qualified electrician!

- The device is intended for wall and front panel installation
- Corresponds to type 1 BSTU in accordance with IEC/EN 60730-2-7
- Power reserve (10 years) is reduced if memory card is inserted (in battery operation)

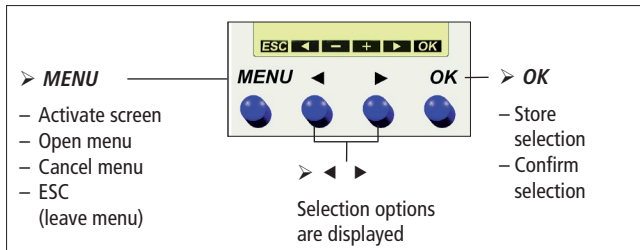
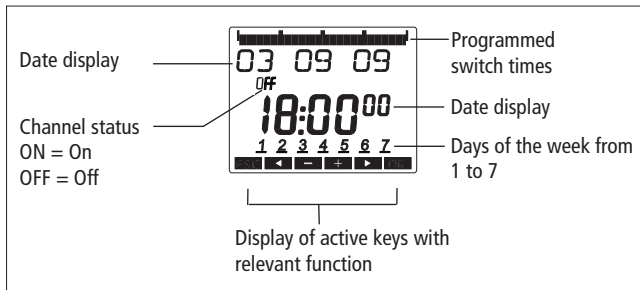
### Designated use

- The time switch can be used for lighting, bell systems, ventilation etc.
- Only use in enclosed dry spaces
- Do not use on safety devices, e.g. escape route doors, fire safety equipment etc.

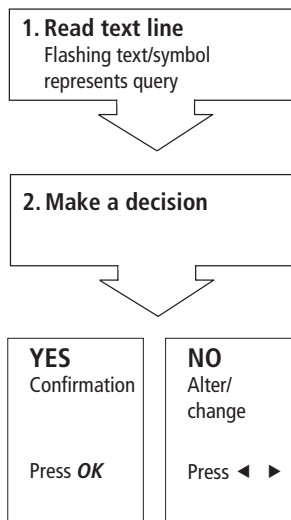
### Disposal

Dispose of device separately in an environmentally sound manner

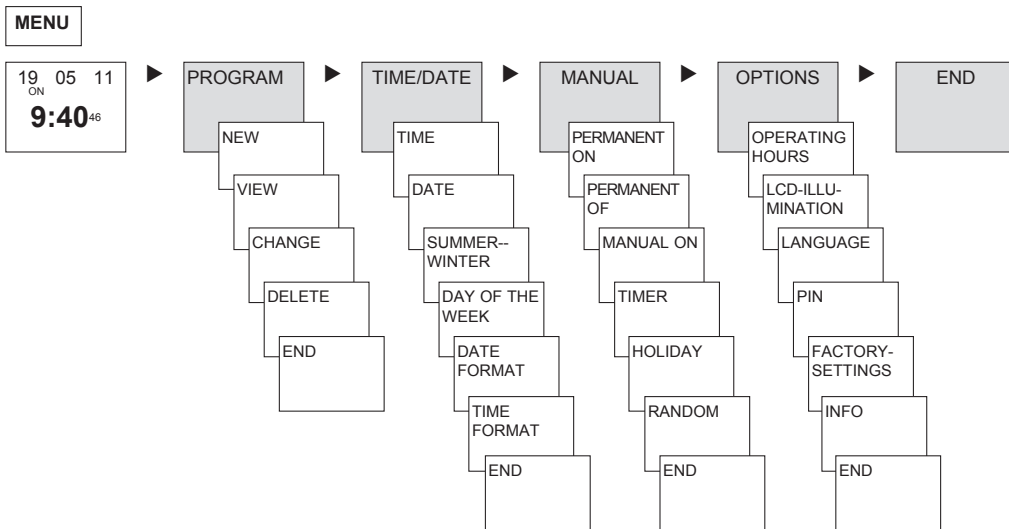
## Screen display and keys



## Operating instructions



# Overview of menu selection



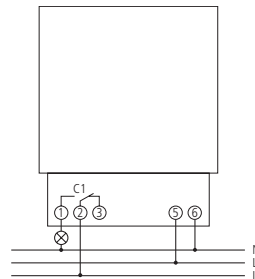
# Connection

 **WARNING**

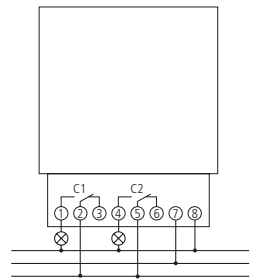


**Warning, danger of death through electric shock!**

- Must be installed by qualified electrician!
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on!
- Check power supply is disconnected.
- Earth and bypass.



TR 635 top2

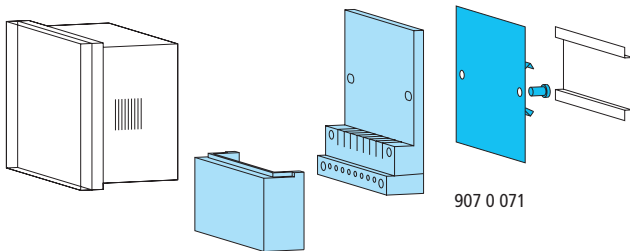


TR 636 top2

# Installation

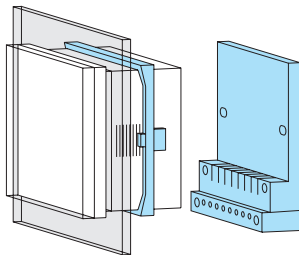
## Distributor installation (wall)

- for installation on DIN top hat rails (in accordance with EN 60715) with accessories (9070071)



## Front panel installation

- for installation in front frame and transparent cover (in accordance with DIN 43700)



# Initial start-up

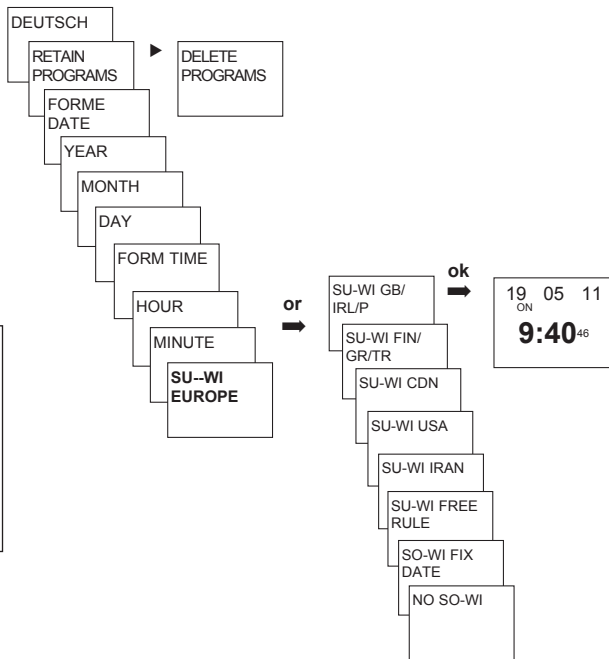
Set date, time and summer/  
winter time rule

- Press required key and display follows on screen (see figure).

## RESET

- Press the 4 buttons simultaneously.

You can choose between **RETAIN PROGRAMS** and **DELETE PROGRAMS**.





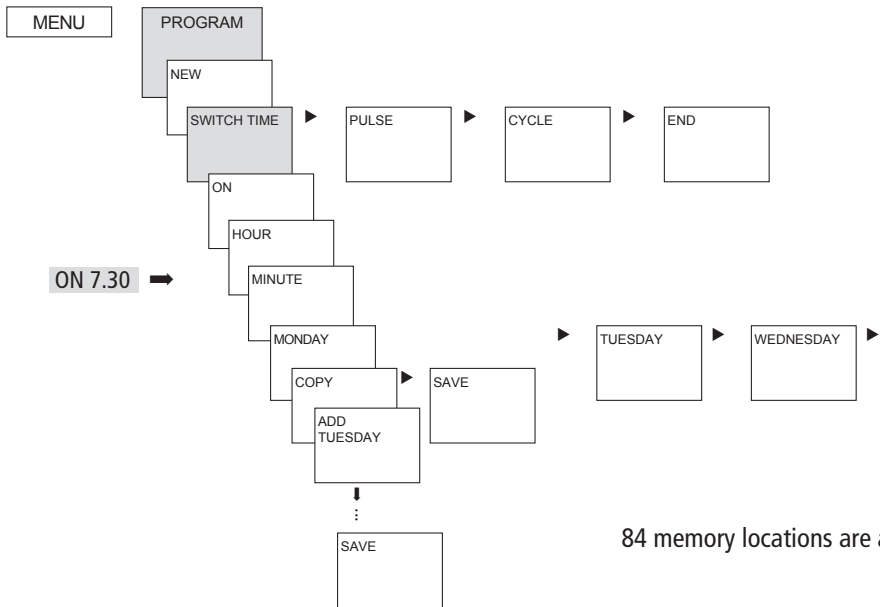
# PROGRAM

## Program switching time

**Example: Switch on sports hall lighting from Mon–Fri, 7:30 to 12:00 hrs**

- Press **MENU**. **PROGRAM** is displayed.
- Confirm by pressing **OK**. **NEW** is displayed.
- Confirm by pressing **OK**. **SWITCHING TIME** is displayed.
- Confirm by pressing **OK**. Select **ON** (for switch-on times).
- Confirm by pressing **OK**. The display shows **HOUR**.
- Use the + or – keys to enter hour, minute, (07:30) and confirm by pressing **OK**.  
**MONDAY** is displayed.
- Confirm by pressing **OK**. **COPY** is displayed.
- Confirm by pressing **OK**. **ADD TUESDAY** is displayed.
- Confirm by pressing **OK** and also confirm the days Wed, Thurs, Fri by pressing **OK**.
- Continue with ► to **SAVE** is displayed. Confirm by pressing **OK**.

Repeat all steps for the switch-off time however instead of selecting ON with ► select OFF and enter 12:00 for hour and minute.



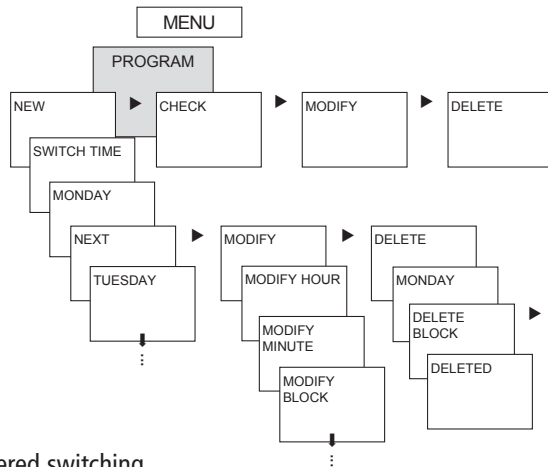
84 memory locations are available.

## Request/change/delete switching time

- Press **MENU**. **PROGRAM** is displayed.
- Confirm by pressing **OK**. **NEW** is displayed.
- Use **▶** to select **CHECK**.
- Confirm by pressing **OK**.
- Confirm **SWITCH TIME** by pressing **OK**.  
The first of the entered switching times is displayed.
- Confirm by pressing **OK**. **NEXT** is displayed.

### Change or delete individual switching times

- Press **▶** to select **MODIFY** (or **DELETE**).
- Confirm **MODIFY HOUR** by pressing **OK**.
- Confirm by pressing **OK**. The first of the entered switching times is displayed.
- Use the **+** or **-** keys to enter hour and minute and confirm by pressing **OK**.



## Pulse time programming

**Example: Switch on pause signal on Monday 8:05 hrs for 5 sec**

- Press **MENU**. **PROGRAM** is displayed.
- Confirm by pressing **OK**. **NEW** is displayed.
- Confirm by pressing **OK**. **SWITCH TIME** is displayed.
- Select **PULSE** by pressing **▶**.
- Confirm by pressing **OK**. **ON** is displayed.
- Confirm by pressing **OK**. The display shows **HOUR**.
- Use the + or – keys to enter hour, minute, second (8:05) and confirm by pressing **OK**. **PULSE LENGTH** is displayed.
- Use the + or – keys to enter the duration of the pulse in minutes and seconds (5 sec). **MONDAY** is displayed.
- Confirm by pressing **OK**. **COPY** is displayed.
- Press **▶** to select **SAVE**.
- Confirm by pressing **OK**.

## Cycle time programming

In addition to switch-on and switch-off times (switching time) and short time pulses (pulse) cycle times (cycle) can also be programmed. The pulse length (+ pulse pause) is limited to 17 hrs, 59 min, 59 sec

- Cycle times refers to cyclically repetitive time functions such as fan controls, urinal rinses etc.

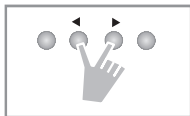
**Example:** Switch on water rinsing Monday from 8:00 to 20:30 hrs every 15 min for 20 sec (8:00<sup>00</sup>–8:00<sup>20</sup> On; 8:15<sup>00</sup>–8:15<sup>20</sup> On; 8:30<sup>00</sup>–8:30<sup>20</sup> On etc.)

### Cycle programming

- Start cycle: Monday 8:00 hrs
  - Pulse length: 20 sec
  - Pause length: 14 min 40 sec
  - Cycle end: Monday 20:30:00 hrs
- Observe the number of maximum electrical switching cycles when using the ,cycle' function.

## Manual and permanent switching

Manual and permanent switching can be set using the menu in **MANUAL** or (in the automatic screen) by key combination (see fig.).



### Activate manual switching

- Briefly press both keys simultaneously.

### Activate permanent switching

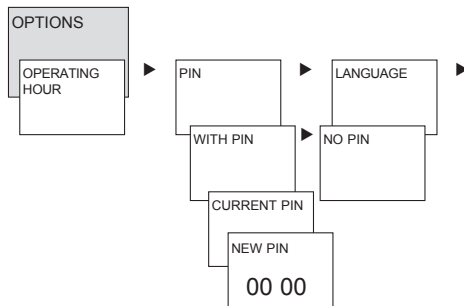
- Simultaneously press both keys for 2 seconds.

### Cancelling manual/permanent switching

- Press both keys simultaneously.

## Enter PIN code

The **PIN code** can be set using the **OPTIONS** menu item (see fig.). If you forget the PIN call the Theben hotline.



## OBELISK top2 memory card

### Use memory card

- Insert memory card in the time switch.
- Read / read out saved switching times and device settings in the time switch or start Obelisk program.
- Remove memory card OBELISK top2 (No. 9070404) after copying.
- Avoid mechanical stress or dirtying with other storage/transport methods.

## Serviceadresse/Hotline

GB

### Service address

#### Theben AG

Hohenbergstr. 32

72401 Haigerloch

GERMANY

Telephone +49 (0) 74 74 6 92 0

Fax +49 (0) 74 74/6 92-150

### Hotline

Telephone +49 (0) 74 74 6 92 -369

Fax +49 (0) 74 74/6 92-207

hotline@theben.de

Addresses, telephone numbers etc.

[www.theben.de](http://www.theben.de)

## Technical data

- Operating voltage: 230–240 V~, +10 %/-15 %
- Frequency: 50–60 Hz
- Power consumption: 0,8 W (TR 635 top2),  
0,9 W (TR 636 top2)
- Standby: 0,9 W (TR 635 top2),  
1,1 W (TR 636 top2)
- Switch output: switching of choice of  
external wires is permitted
- Contact: two way switch
- Gap: <3 mm ( $\mu$ )
- Contact material:  $\text{AgSnO}_2$
- Max switching capacity: **TR 635 top2:**  
16 A, 250 V~,  $\cos \varphi = 1$   
10 A, 250 V~,  $\cos \varphi = 0,6$   
**TR 636 top2:**  
6 A, 250 V~,  $\cos \varphi = 1$   
6 A, 250 V~,  $\cos \varphi = 0,6$
- Min. switching capacity: 10 mA/230 V AC  
100 mA/12 V AC/DC
- Incandescent lamp load + Halogen lamp load:  
2300 W (TR 635 top2)  
1200 W (TR 636 top2)
- Fluorescent lamp load: uncorrected +  
(VVG) series corrected 1000 VA  
parallel correction 400 VA (42 $\mu$ F)
- Compact fluorescent lamps: 90 W
- LED lamps: <2 W output, max. connec-  
tion total of 20 W,  
>2 W < 8 W output, max.  
connection total of 50 W
- Permissible ambient temperature: -30 °C ... +55 °C
- Protection class: II in accordance with  
EN 60730-1 subject to  
designated installation
- Protection rating: IP 20 in accordance with  
EN 60529
- Time accuracy:  $\leq \pm 0,5$  s/day at +20 °C
- Power reserve: 10 years (lithium call) at +25 °C
- Pollution degree: 2
- Rated impulse withstand voltage: 4 kV
- TR 635 top2: max. switching cycles with  
16 A resistive load: 50,000
- TR 636 top2: max. switching cycles with  
6 A resistive load: 50,000