⚠ **Safety notes**
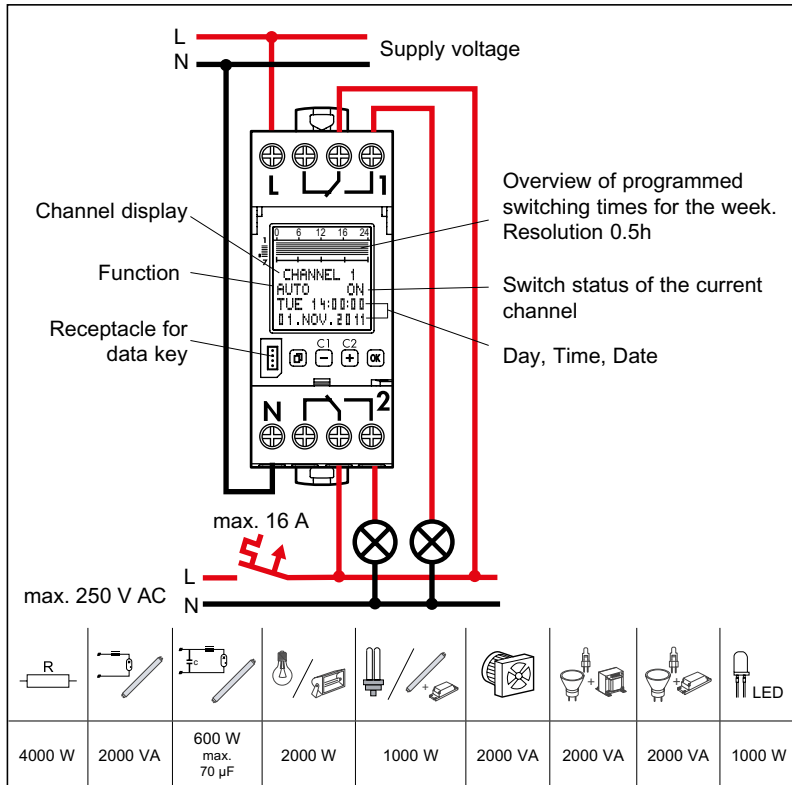This product should be installed in line with installation rules, preferably by a qualified electrician. Incorrect installation and use can lead to risk of electric shock or fire. Before carrying out the installation read the instructions and take account of the product's specific mounting location. Do not open up, dismantle, alter or modify the device except where specifically required to do so by the instructions. All Legrand products must be opened and repaired exclusively by personnel trained and approved by Legrand. Any unauthorised opening or repair completely cancels all liabilities and the rights to replacement and guarantees. Use only Legrand brand accessories.
The device contains a $LiMnO_2$ primary cell. When the product reaches the end of its life, this cell must be correctly removed and disposed of in accordance with national legislation and the requirements of environmental protection.

GB IE

Supply voltage

Channel display

Function

Receptacle for data key

Overview of programmed switching times for the week. Resolution 0.5h

Switch status of the current channel

Day, Time, Date

max. 16 A

max. 250 V AC

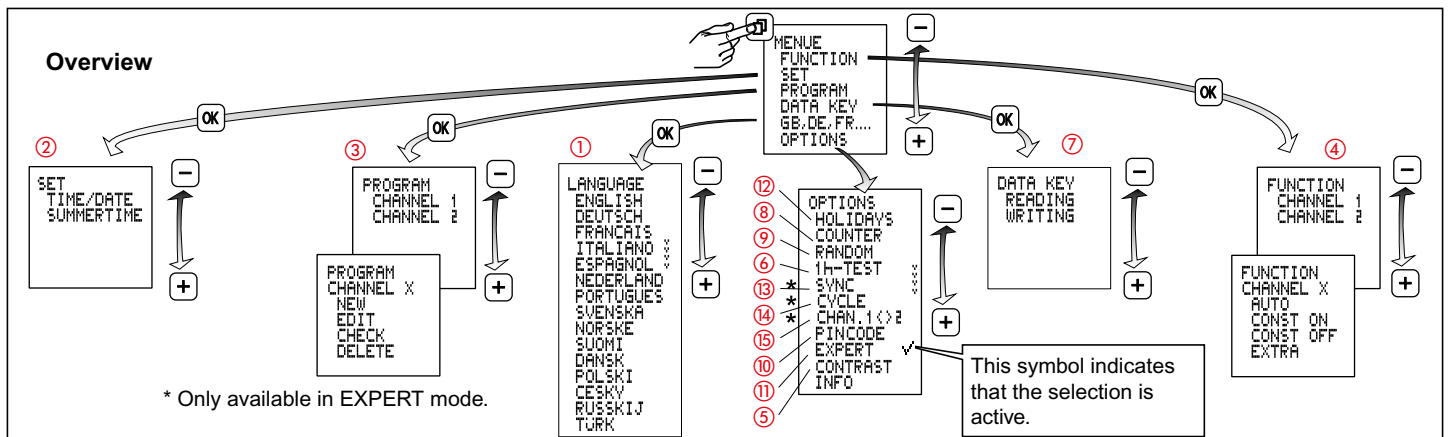|								
4000 W	2000 VA	600 W max. 70 µF	2000 W	1000 W	2000 VA	2000 VA	2000 VA	1000 W

Operating principle: Typ 1.B. S. T.
IEC/EN 60730-1, IEC/EN 60730-2-7
Operation in a normal environment
Montage: in distribution panel, Degree of contamination: 2
Switch output, potential-free
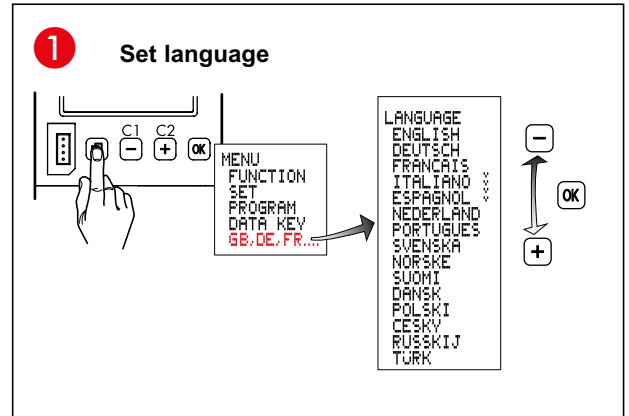Rated impulse voltage: 4 kV

General information
• Start-up: after applying the supply voltage, the time switch starts automatically with the last selected function. The relay position is set by the current program.
• Battery backup
  - Backlighting not active
  - Data key READ/WRITE only via the menu
• For saftety, when the time switch is connected to the mains supply the contact should not be used on an isolated low voltage supply and when the time switch is connected to the isolated voltage supply the contact should not be used on the mains supply.

Select menu, back to main menu, Hold down > 1s = operating display

Confirm selection or load parameters

C1 C2 • Select menu options or set parameters
       • Channel selection

Overview

MENUE
FUNCTION
SET
PROGRAM
DATA KEY
GB.DE.FR....
OPTIONS

② SET TIME/DATE SUMMERTIME

③ PROGRAM CHANNEL 1 CHANNEL 2

PROGRAM CHANNEL X NEW EDIT CHECK DELETE

① LANGUAGE ENGLISH DEUTSCH FRANCAIS ITALIANO ESPAGNOL NEDERLAND PORTUGUES SVENSKA NORSKE SUOMI DANSK POLSKI CESKY RUSSKIJ TURK

⑫ OPTIONS
⑧ HOLIDAYS
⑨ COUNTER
⑥ RANDOM
    1h-TEST
⑬ SYNC *
⑭ CYCLE *
⑮ CHAN.1<>2 *
    PINCODE
⑩ EXPERT
    CONTRAST
⑪ INFO
⑤

This symbol indicates that the selection is active.

⑦ DATA KEY READING WRITING

④ FUNCTION CHANNEL 1 CHANNEL 2

FUNCTION CHANNEL X AUTO CONST ON CONST OFF EXTRA

* Only available in EXPERT mode.

Technical data

	4126 41 047 71	4126 42 6047 70	4126 43 6047 72
Supply voltage:	230V 50/60Hz	120V 50/60Hz	24V AC/DC
Consumption :	ca. 1,5 W		
Contact rating:	2 changeover contact 16A 250V~µ cos φ = 1		
Parallel compensation	600W max. 70µF		
Accuracy :	~ 0,1 s /day		
	single strand		multi strand
Terminal capacity:	1,5...4 mm²		1,5...2,5 mm²
Programmes:	28 per channel		
Battery reserve:	5 years		
Storage ambient:	-20°C to +60°C		
Working ambient:	-20°C to +55°C		
IP:	20		

① **Set language**

C1 C2

MENU
FUNCTION
SET
PROGRAM
DATA KEY
GB.DE.FR....

LANGUAGE
ENGLISH
DEUTSCH
FRANCAIS
ITALIANO
ESPAGNOL
NEDERLAND
PORTUGUES
SVENSKA
NORSKE
SUOMI
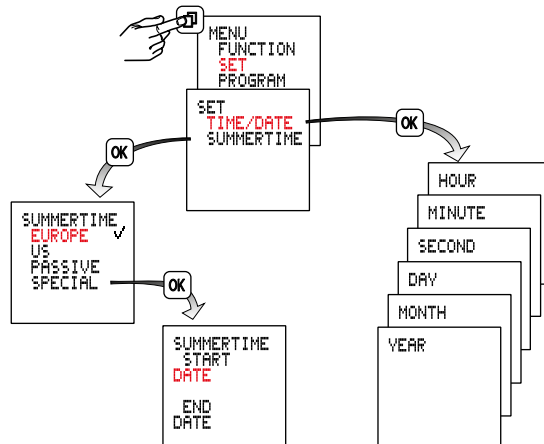DANSK
POLSKI
CESKY
RUSSKIJ
TURK

N 292556/02

② Set time/date, summertime/wintertime

Summertime: ± 1 hour
Europe: Factory set
SPECIAL: The switchover to/from
summertime can be freely programmed by entering a start date and end date
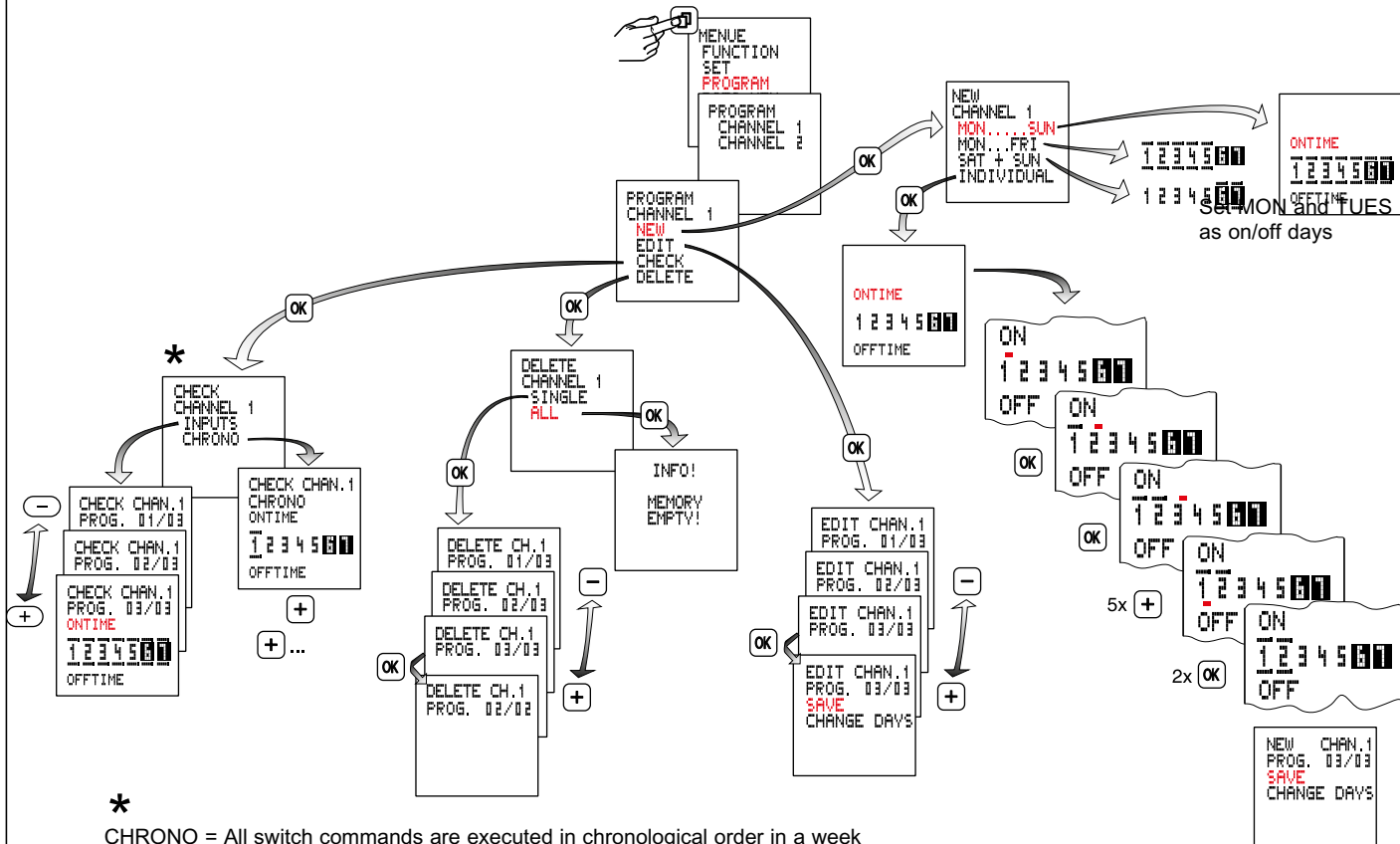and is then executed each year on the same day of the week, e.g. Sunday

```
MENU
FUNCTION
SET
PROGRAM
```

```
SET
TIME/DATE
SUMMERTIME
```
OK

```
SUMMERTIME
EUROPE ✓
US
PASSIVE
SPECIAL
```
OK

```
SUMMERTIME
START
DATE

END
DATE
```

```
HOUR
MINUTE
SECOND
DAY
MONTH
YEAR
```

③ Programming

A program consists of an ON time, OFF time and associated on and off days.
Programs with predefined on/off days (Mon to Sun, Mon to Fri and Sat and Sun): for these programs, you only need to set the switching times.
With the „INDIVIDUAL" option, you can allocate switching times to specific days of your choice.
The programs of a channel are combined with a logical OR.

```
MENUE
FUNCTION
SET
PROGRAM
```

```
PROGRAM
CHANNEL 1
CHANNEL 2
```

```
PROGRAM
CHANNEL 1
NEW
EDIT
CHECK
DELETE
```

```
NEW
CHANNEL 1
MON.....SUN
MON...FRI
SAT + SUN
INDIVIDUAL
```

```
ONTIME
1 2 3 4 5 6 7
OFFTIME
```

Set MON and TUES
as on/off days

```
ONTIME
1 2 3 4 5 6 7
OFFTIME
```

*

```
CHECK
CHANNEL 1
INPUTS
CHRONO
```

```
CHECK CHAN.1
PROG. 01/03
CHECK CHAN.1
PROG. 02/03
CHECK CHAN.1
PROG. 03/03
ONTIME
1 2 3 4 5 6 7
OFFTIME
```

```
CHECK CHAN.1
CHRONO
ONTIME
1 2 3 4 5 6 7
OFFTIME
```

```
DELETE
CHANNEL 1
SINGLE
ALL
```

```
INFO!
MEMORY
EMPTY!
```

```
DELETE CH.1
PROG. 01/03
DELETE CH.1
PROG. 02/03
DELETE CH.1
PROG. 03/03
DELETE CH.1
PROG. 02/02
```

```
EDIT CHAN.1
PROG. 01/03
EDIT CHAN.1
PROG. 02/03
EDIT CHAN.1
PROG. 03/03
EDIT CHAN.1
PROG. 03/03
SAVE
CHANGE DAYS
```

```
ON
1 2 3 4 5 6 7
OFF
ON
1 2 3 4 5 6 7
OFF
ON
1 2 3 4 5 6 7
OFF
ON
1 2 3 4 5 6 7
OFF
ON
1 2 3 4 5 6 7
OFF
```
5x +
2x OK

```
NEW CHAN.1
PROG. 03/03
SAVE
CHANGE DAYS
```

*
CHRONO = All switch commands are executed in chronological order in a week
INPUT = Programs are executed in the order in which they are entered

④ Modes

```
MENU
FUNCTION
SET
PROGRAM
DATA KEY
GB.DE.FR....
```
OK

```
FUNCTION
CHANNEL 1
CHANNEL 2
```

```
FUNCTION
CHANNEL X
AUTO ✓
CONST ON
CONST OFF
EXTRA
```

• **Auto** - Automatic operation
• **Constant ON**
• **Constant OFF**
• **Extra**
The switch status imposed by the
program is inverted (manual override).
With the next effective switch
command, the time switch resumes
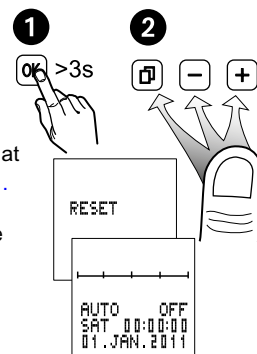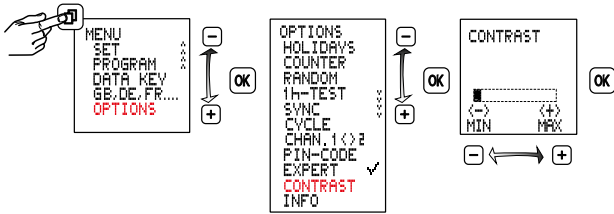control of on/off switching.
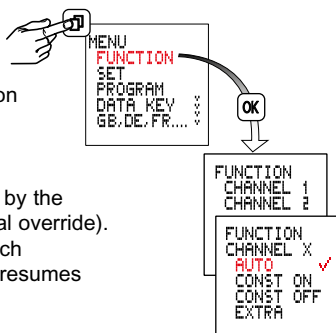
Reset

Warning!
The memory will be cleared,
and all set data will be lost.

Hold down OK for more than 3 seconds and at
the same time press and release 🗇 − + .
The language, time, date, summertime/
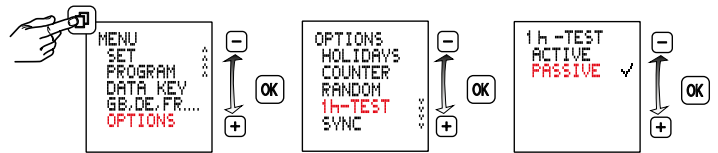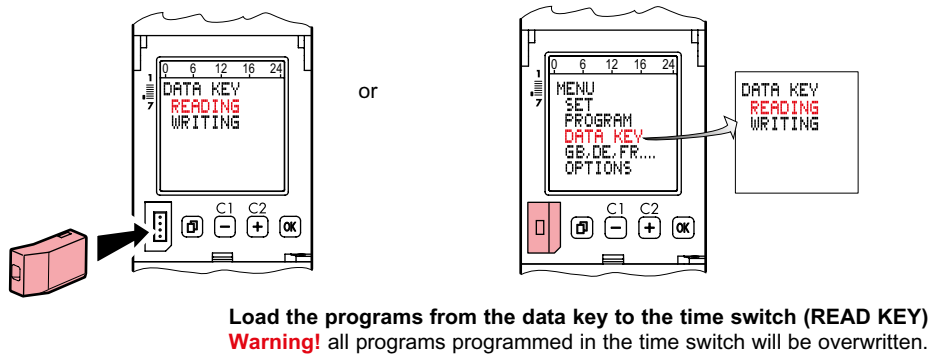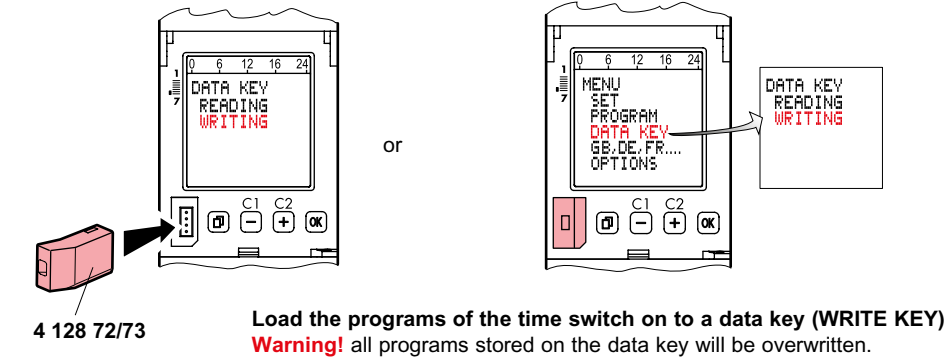wintertime and switching times will have to be
reentered.

❶ OK >3s ❷ 🗇 − +

```
RESET

AUTO    OFF
SAT 00:00:00
01.JAN.2011
```

5 Contrast adjustment


```
MENU
SET
PROGRAM
DATA KEY
GB,DE,FR....
OPTIONS
```
```
OPTIONS
HOLIDAYS
COUNTER
RANDOM
1h-TEST
SYNC
CYCLE
CHAN.1<>2
PIN-CODE
EXPERT       ✓
CONTRAST
INFO
```
```
CONTRAST

<->        <+>
MIN        MAX
```

6 1 h-Test

When this function is activated, the outputs are switched on for one hour.


```
MENU
SET
PROGRAM
DATA KEY
GB,DE,FR....
OPTIONS
```
```
OPTIONS
HOLIDAYS
COUNTER
RANDOM
1h-TEST
SYNC
```
```
1h-TEST
ACTIVE
PASSIVE   ✓
```

After one hour, the time switch returns automatically to the programmed mode.

7 Data key

4 128 72/73

or

Load the programs of the time switch on to a data key (WRITE KEY)
Warning! all programs stored on the data key will be overwritten.

or

Load the programs from the data key to the time switch (READ KEY)
Warning! all programs programmed in the time switch will be overwritten.

8 Hour counter

Displays the total relay ON time, (0 to 65535 h) and the date of the last reset.


```
MENU
SET
PROGRAM
DATA KEY
GB,DE,FR....
OPTIONS
```
```
OPTIONS
HOLIDAYS
COUNTER
RANDOM
1h-TEST
SYNC
```
```
COUNTER
CHANNEL 1
CHANNEL 2
```
```
COUNTER
CHANNEL 1
CHECK
RESET
```
```
COUNTER
CHANNEL 1

012345  H

DATE
```
```
COUNTER
CHANNEL 1

000000  H

DATE
```
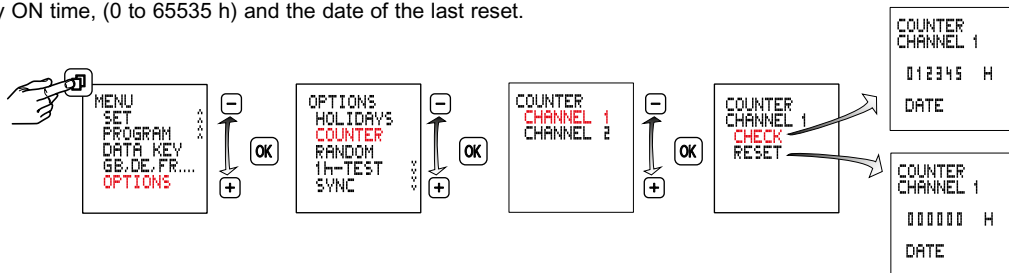
9 Random function

Function to simulate presence.
Function active: the programmed switching cycles are shifted at random within the range of ± 15 minutes.


```
MENU
SET
PROGRAM
DATA KEY
GB,DE,FR....
OPTIONS
```
```
OPTIONS
HOLIDAYS
COUNTER
RANDOM
1h-TEST
SYNC
```
```
RANDOM
ACTIVE
PASSIVE   ✓
```
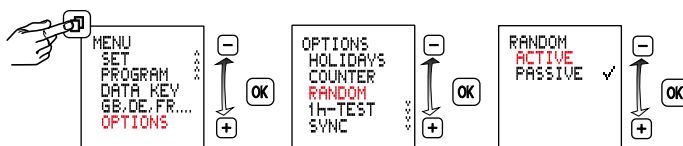
## 🔟 Pincode

PIN CODE active: The menus of the time switch will not be accessible unless the PIN CODE has been entered. When the pin code is active, access to the button and key functions is disabled 1 minute after the last button press.
PIN free access can be re-enabled by selecting PASSIVE or by resetting the device.
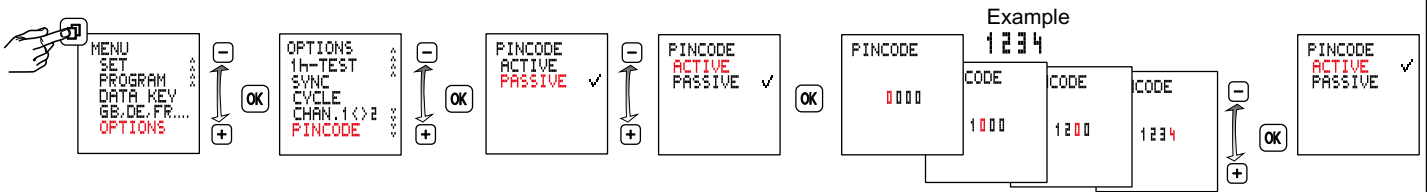


## ⓫ Expert mode

Some additional functions are available in Expert mode:
• Power grid synchronisation to improve the accuracy
• Cycle function
• Automatic channel switching
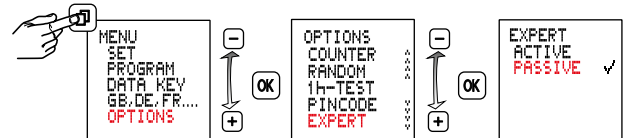


Note: Upon switching from ACTIVE to PASSIVE the additional menu items are hidden again and all the Expert mode settings are cancelled.
After re-activating, Expert mode will operate again with the basic settings.

## ⓬ Holidays

After activation the holiday program is executed between 0:00h on the start date and 24:00h on the end date (Constant ON/OFF).
After the holiday program has run once, it must be reactivated.
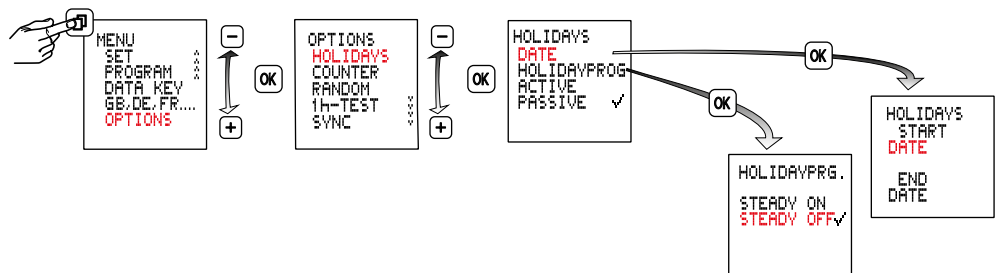


## ⓭ Activating and deactivating grid synchronisation
Only available in EXPERT mode

The default setting is PASSIVE. In order to improve the long-term accuracy, it is advisable to activate synchronisation if the time switch is supplied from a on 50/60 Hz grid with frequency adjustment.
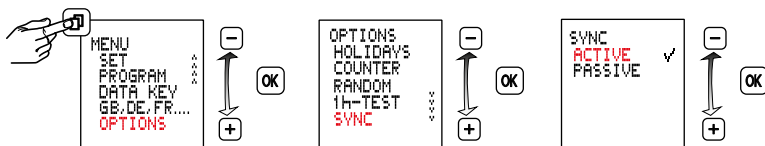


Warning: Elektrical shock - Disconnect all power from the device before dismantling the module and replacing the battery.
Always use a Li cell type battery (LiMnO$_2$) CR2477, 3V high temperature type min +85 °C
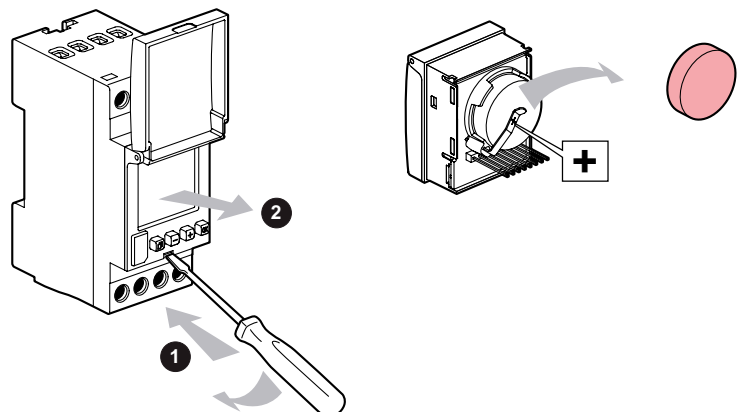
## ⑭ Cycle function
Only available in EXPERT mode

For cyclical switch commands the switching on time is set by logical "OR" of programs of all types. A fixed cycle of ON and OFF time then operates within those limits. The cycle always starts with the ON time.
The cycle duration and the ON time within the cycle are the same length for all switching times. The cycle duration and the ON time can be set independently in one-second increments. If the switching time is shorter than the cycle duration, the cycle will be shortened accordingly. The ON time will remain unchanged. If the switching time is actually shorter than the ON time, the ON time will be shortened accordingly.

| | min | max |
|---|---|---|
| Period | 2s | 2h |
| Pulse | 1s | 1h 59min 59s |
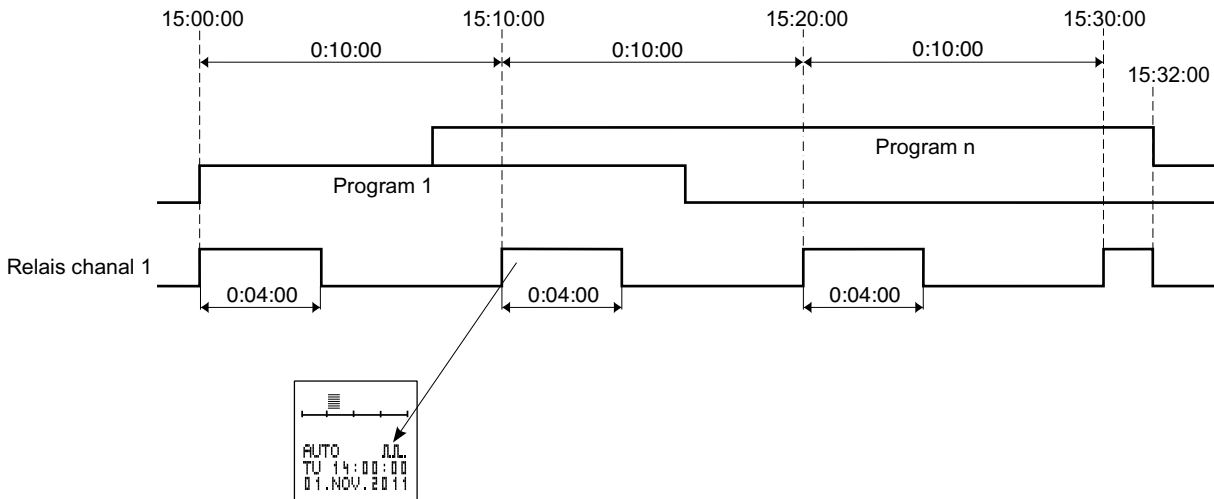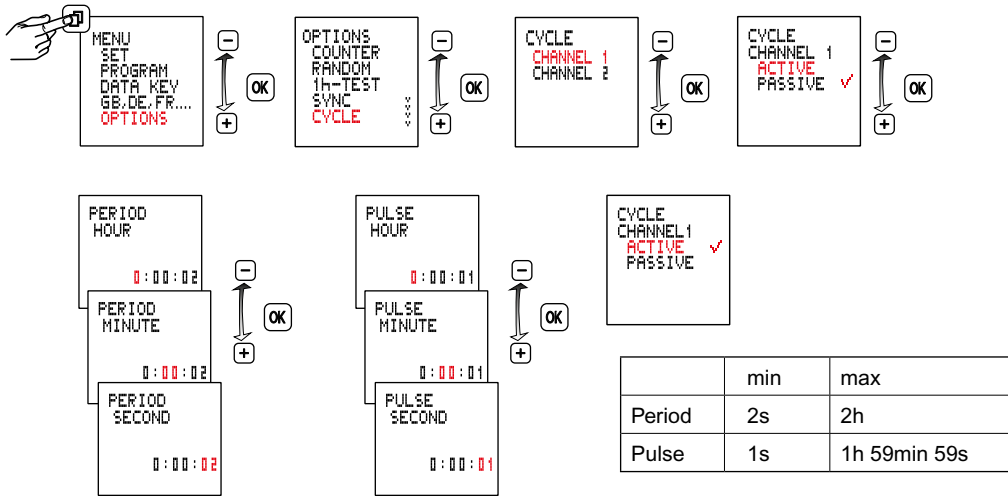


## ⑮ Automatic channel switching
Only available in EXPERT mode

On two-channel time switches a cyclic switch between channels can be set to conserve and/or ensure even use of connected equipment such as lamps and lights.
For example, with two sets of lights, one can be used all night long and the other for part of the night only. However, cyclical inversion of the outputs ensures that the lamps are on for the same length of time on average.
The outputs are automatically swapped over once a day (12 noon) or once a week (Sunday at 12 noon).