Time switch
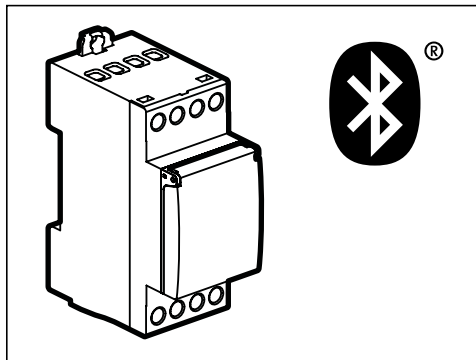**AlphaRex³ D21s BLE**
4 127 21

⚠ **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.

Technical data

Supply voltage:	230 V 50/60 Hz	
Effective power consumption: Approx. 1 W		
Contact rating:	1 changeover contact 16A 250V~µ cos φ = 1	
Accuracy:	~ 0,1 s / day	
	single strand	multi strand
Terminal capacity:	1,5...4 mm²	1,5...2,5 mm²
Programmes :	56	
Control signal:	230V AC	
Control impuls:	100…200 ms	
Control line length:	max. 50 m	
Delay time:	0 min … 23 h 59 min 59 s	
Battery reserve:	5 years	
Storage ambient:	-20 °C to +60 °C	
Working ambient:	-20 °C to +55 °C	
Transmission frequency: 2400 MHz … 2483,5 MHz		
max. transmission power: 1,58 mW		

max. 1,4 Nm

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.
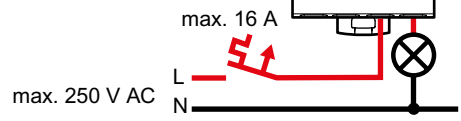
Supply voltage L
N

L N S
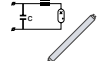
Function

BLE 4.2

4:21 PM 100%
≡
Legrand Time-Switch
INSTALL

Download on the **App Store**

GET IT ON **Google Play**
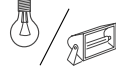
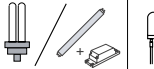Overview of programmed switching times for the week. Resolution 0.5h

Switch status

Day, Time, Date

0 6 12 16 24
1
7
AUTO ON
TUE 14:00:00
01.NOV.2020

2 1 4

max. 16 A

L
max. 250 V AC N

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

R			
4000 W	2000 VA	600 W 70µF	2000 W
2000 W	2000 W	2000 W	1000 W	1000 W

LED

Symbol	Description
🗇	Select menu, back to main menu, Hold down > 1s = operating display
OK	Confirm selection or load parameters
− +	Select menu options or set parameters

Overview

SET
TIME/DATE
SUMMERTIME

PROGRAM
NEW
EDIT
CHECK
DELETE

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

MENU
FUNCTION
SET
PROGRAM
GB.DE.FR....
OPTIONS

OPTIONS
HOLIDAYS
COUNTER
S-INPUT
RANDOM
1h-TEST
SYNC
CYCLE
PINCODE
EXPERT
CONTRAST
INFO

FUNCTION
AUTO
CONST ON
CONST OFF
EXTRA

This symbol indicates that the selection is active.

* Only available in EXPERT mode.

❶ Set language

❷ 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

3 Programming

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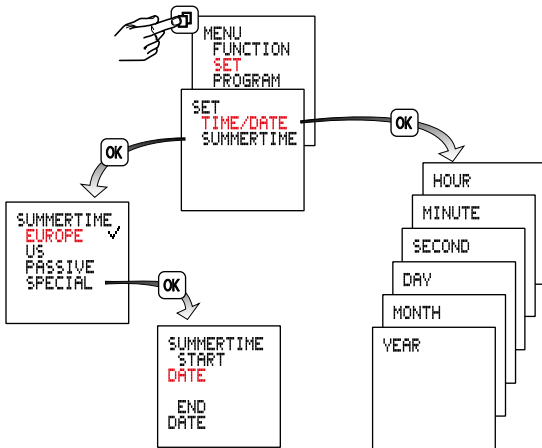Programs with predefined on/off days (Mon to Sun, Mon to Fri and Sat and Sun): for these programs, you only need to set the switching times.
With the „INDIVIDUAL" option, you can allocate switching times to specific days of your choice.
The programs of a channel are combined with a logical OR.

Set MON and TUES as on/off days

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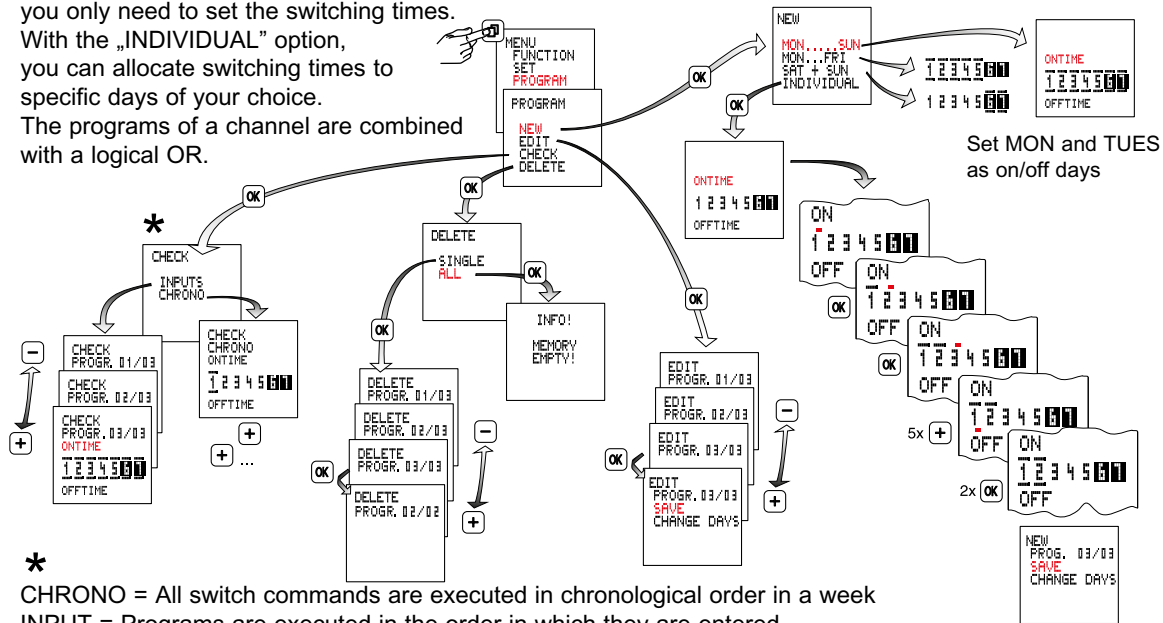
CHRONO = All switch commands are executed in chronological order in a week
INPUT = Programs are executed in the order in which they are entered

4 Modes

- **Auto** - Automatic operation
- **Constant ON**
- **Constant OFF**
  Note: The output is switched on if a control input signal is present.
- **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.
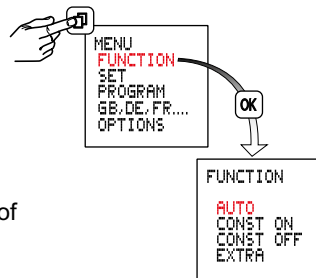
5 Contrast adjustment

6 1 h-Test

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

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

7 Hour counter

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

```
        ┌─────────┐   ┌─────────┐   ┌─────────┐       ┌─────────┐
  ☞🔘    │MENU     │ ⊟ │OPTIONS  │ ⊟ │COUNTER  │       │COUNTER  │
        │FUNCTION │ ↑ │HOLIDAYS │ ↑ │CHECK    │──┐     │         │
        │SET      │OK │COUNTER  │OK │RESET    │  ├──→   │012345  H│
        │PROGRAM  │ ↓ │S-INPUT  │ ↓ │         │  │      │DATE     │
        │GB,DE,FR.│ ⊞ │RANDOM   │ ⊞ │         │  │      └─────────┘
        │OPTIONS  │   │1h-TEST  │   │         │  │      ┌─────────┐
        └─────────┘   └─────────┘   └─────────┘  │      │COUNTER  │
                                                 ├──→   │         │
                                                        │000000  H│
                                                        │DATE     │
                                                        └─────────┘
```
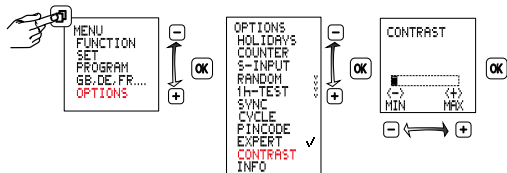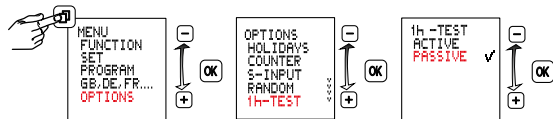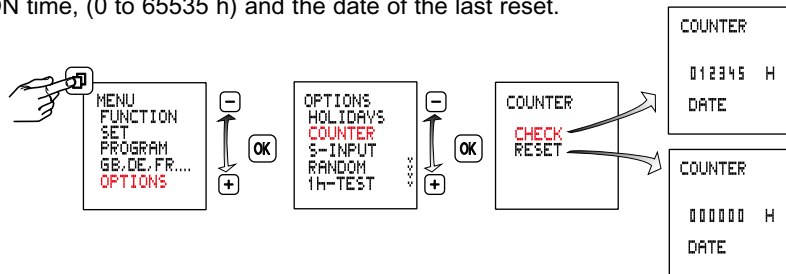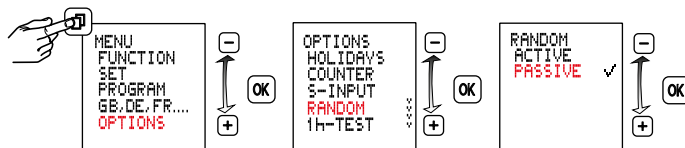
8 Random function

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

```
        ┌─────────┐   ┌─────────┐   ┌─────────┐
  ☞🔘    │MENU     │ ⊟ │OPTIONS  │ ⊟ │RANDOM   │ ⊟
        │FUNCTION │ ↑ │HOLIDAYS │ ↑ │ACTIVE   │ ↑
        │SET      │OK │COUNTER  │OK │PASSIVE ✓│OK
        │PROGRAM  │ ↓ │S-INPUT  │ ↓ │         │ ↓
        │GB,DE,FR.│ ⊞ │RANDOM   │ ⊞ │         │ ⊞
        │OPTIONS  │   │1h-TEST  │   │         │
        └─────────┘   └─────────┘   └─────────┘
```

9 Pincode

The factory setting for pin code entry is PASSIVE.
If the pin code is set to ACTIVE, the access code is preset to 123123.
This is unless the pin code was changed in the Legrand Time-Switch app.

• The Legrand Time-Switch app can be used to change the access code.
• A maximum of 8 smartphones/tablets can be simultaneously paired with a timer.
 If more smartphones/tablets need to be paired, the oldest pairing will be deleted.
• The standard time switch name (AlphaRex) can be changed using the Legrand Time-Switch app.

If PASSIVE is selected, or after a reset, the access lock is removed.
The access code set remains unchanged.
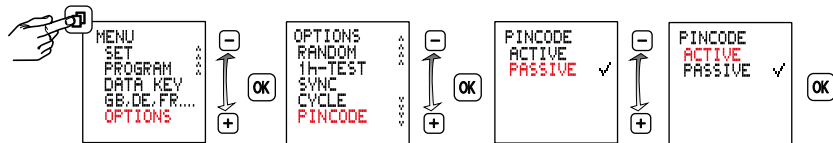
🔟 Expert mode

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

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.
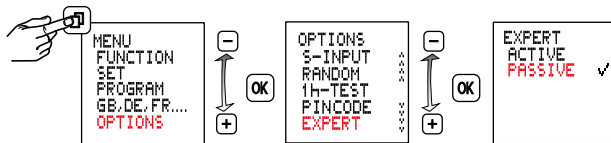
⑪ Holiday

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.
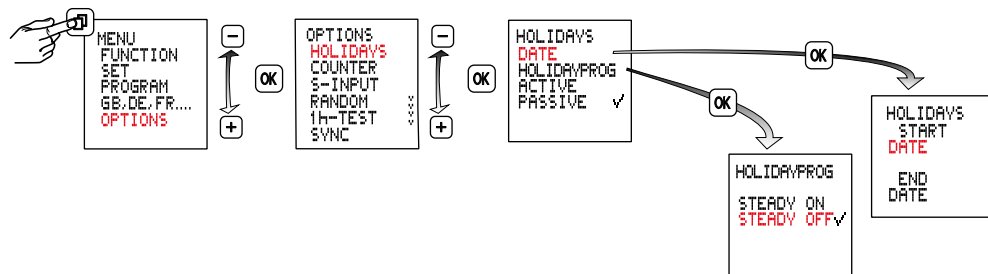
12 Activating and deactivating grid synchronisation

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.
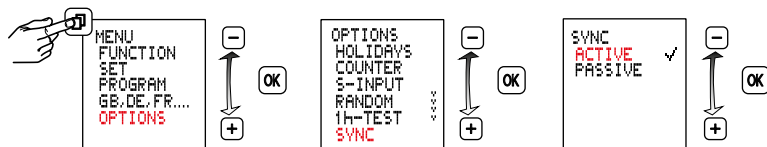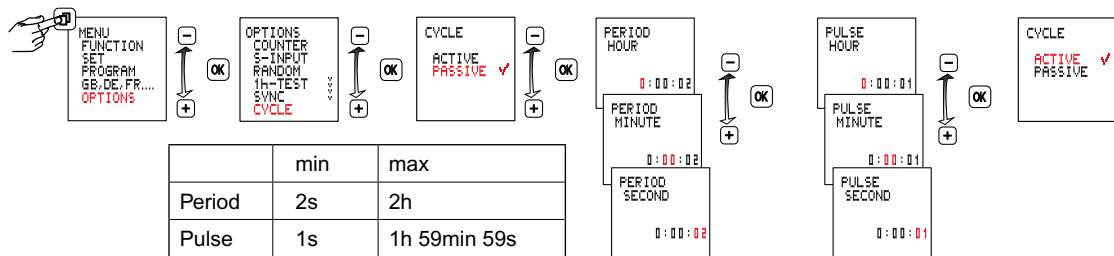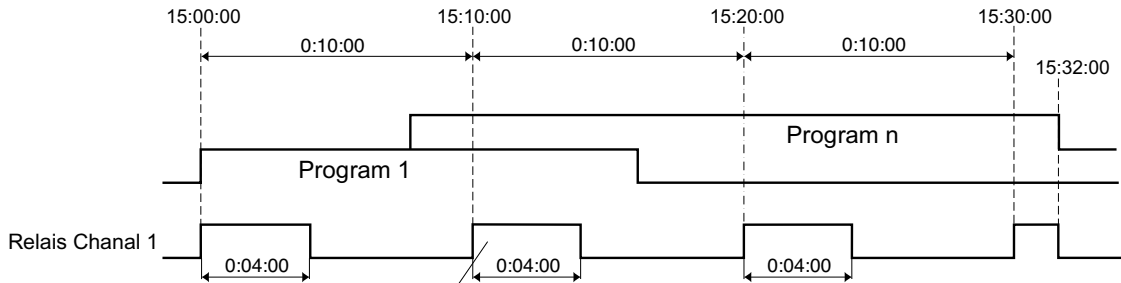
⑬ Cycle function
Only available in EXPERT mode

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

15:00:00   15:10:00   15:20:00   15:30:00
0:10:00   0:10:00   0:10:00   15:32:00
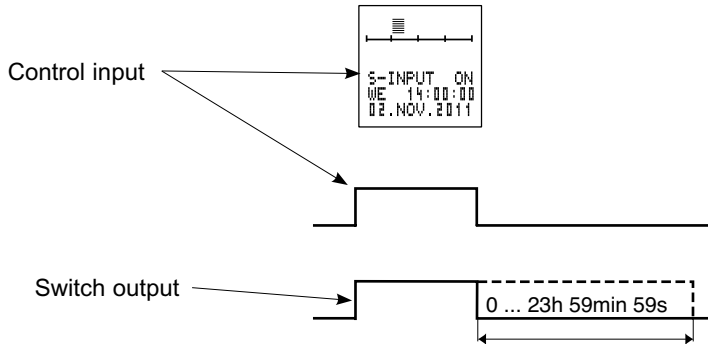
Program n

Program 1

Relais Chanal 1
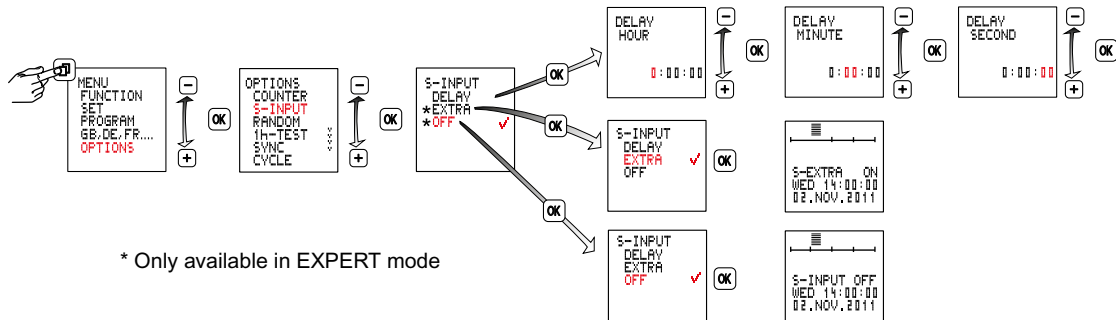
0:04:00   0:04:00   0:04:00

AUTO
DI 14:00:00
01.NOV.2011

14 Control input with delay time

A control signal is superimposed on all program commands (OR circuit). While this control signal is applied, the output is switched ON.
When the control signal is switched off, the output is switched OFF after a delay time, unless an ON command is applied by a program.

Control input

```
S-INPUT   ON
WE  14:00:00
02.NOV.2011
```

Switch output

0 ... 23h 59min 59s

*Only available in EXPERT mode

DELAY
The output switches on when the control input is activated and remains switched on for the duration of the set delay time after the control input has been deactivated. Delay time setting range 0h 00min 00s … 23h 59min 59s. The control input can be subsequently triggered within the delay time.

EXTRA
The control input signal inverts the switching state specified by the program.
At the next valid switching command the time switch resumes switching On and Off.

OFF
The control input signal sets the switching state to OFF if the program specifies ON.

15 **Connecting smartphones and AlphaRex³ BLE**

Below are the basic instructions for pairing a smartphone with an AlphaRex³ BLE timer.
1. First install the Legrand Time-Switch app.
2. Go to the Bluetooth section of your smartphone; this is usually under Settings.
   Make sure Bluetooth is switched on.
3. Location services on the smartphone must be enabled; GPS does not have to be activated.
4. The AlphaRex³ BLE timer must be supplied with mains voltage.
5. Devices are now displayed within the Legrand Time-Switch app, both when uploading and when importing.
6. Select the AlphaRex³ BLE timer from the list of devices.
7. The access code is 123123.
8. Enter the access code.
9. The AlphaRex³ BLE is now paired.

16   Importing projects

⚠ Note!
At the start of and during Bluetooth communication, the relay outputs are put into an idle state.

1. Select the AlphaRex³ model from which the project is to be imported.
2. The transfer will start automatically
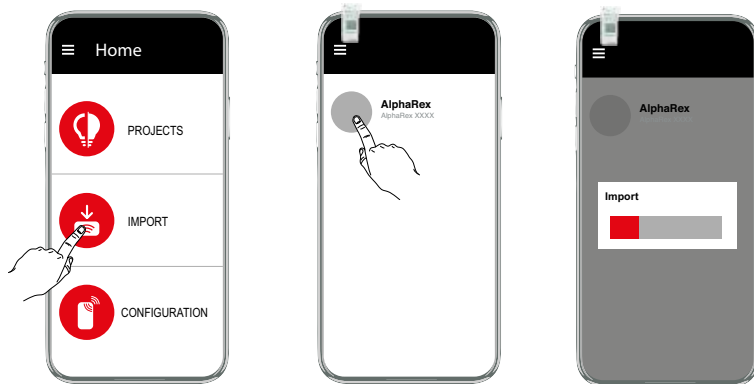
⓱ Uploading projects

⚠ Note!
At the start of and during Bluetooth communication, the relay outputs are put into an idle state.

1. Make sure your smartphone has Bluetooth and positioning turned on.
2. Select a project.
3. Press the key 📶
4. Select the AlphaRex type to which the project is to be transferred.
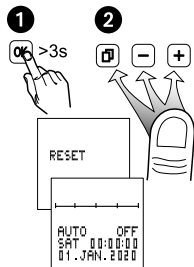5. The transfer starts automatically.
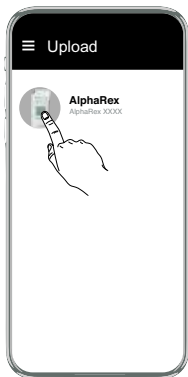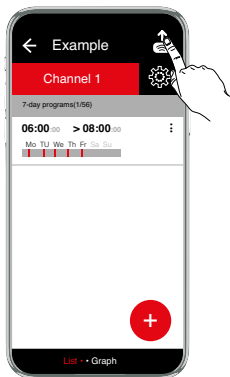
Reset

Warning!

The memory is deleted and all saved data is lost. Pin code entry is set to PASSIVE. The access code set remains unchanged.

Hold down $\boxed{OK}$ for more than 3 seconds and at the same time press and release $\boxed{\Box}\boxed{-}\boxed{+}$.
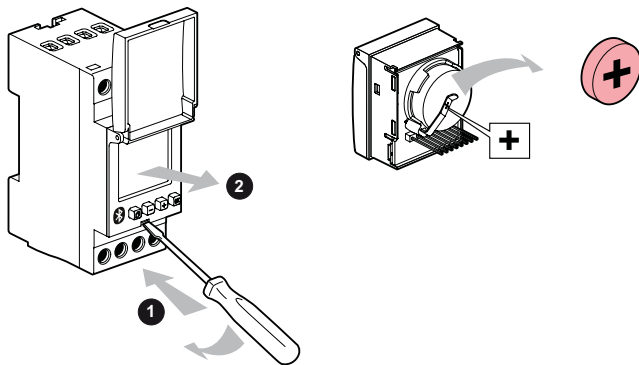The language, time, date, summertime/wintertime and switching times will have to be reentered.

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

legrand®

Wir   **Legrand GmbH**
We   **Am Silberg 14, D-59494 Soest**

erklären in alleiniger Verantwortung, daß unser(e) Produkt(e):   **Schaltuhr**
declare under our sole responsibility that the product(s):   **Time-switch**

Typenbezeichnung: **AlphaRex³ BLE**
Type description:

  See list of reference numbers on page 2/2

mit den grundlegenden Anforderungen folgender Europäischen Richtlinien übereinstimmen
satisfy the provisions of Council Directives

"Funkanlagen-Richtlinie"/"Radio Equipment Directive (RED)" 2014/53/EU

"EMV-Richtlinie"/*"EMC-Directive"* 2014/30/EU

und/*and*

„RoHS2-Richtlinie"/"RoHS2-Directive" 2011/65/EU

sofern sie bestimmungsgemäß und normgerecht nach den Herstellerempfehlungen installiert und benutzt werden.

on condition that they are used in the manner intended and in accordance with the current installation standards and with the manufacturer's recommandations.
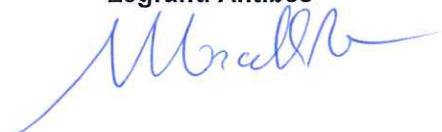
Die Übereinstimmung des bezeichneten Produktes mit den wesentlichen Schutzforderungen der gültigen Richtlinien wird nachgewiesen durch die Einhaltung folgender Normen:

These provisions are ensured for the valid Directives by conformity to the following standards:

EN 60730-1 :2016
EN 60730-2-7 :2010

EN 300 220-2 V3.2.1 :2018 in conjunction with EN 300 220-1 V3.1.1 : 2017
EN 301 489-1 V2.1.1 :2017
EN 301 489-3 V2.1.1 :2019
EN 301 489-17 V3.1.1 :2017
EN 300 328 V2.2.2 : 2019

Legrand Antibes

16.12.2019
Datum/*date*:

Marcello Re
- Product Development & Technologies Director -

Telefon (00 49) 29 21/104-0   Fax (00 49) 29 21/104-209

Referenz / Reference: Typ/*Type:*	
412721 AlphaRex³ D21s BLE	230 V / 50-60 Hz
412722 AlphaRex³ D22 BLE	230 V / 50-60 Hz
412723 AlphaRex³ D21 astro BLE	230 V / 50-60 Hz
412724 AlphaRex³ D22 astro BLE	230 V / 50-60 Hz
412725 AlphaRex³ DY21 BLE	230 V / 50-60 Hz
412726 AlphaRex³ DY22 BLE	230 V / 50-60 Hz