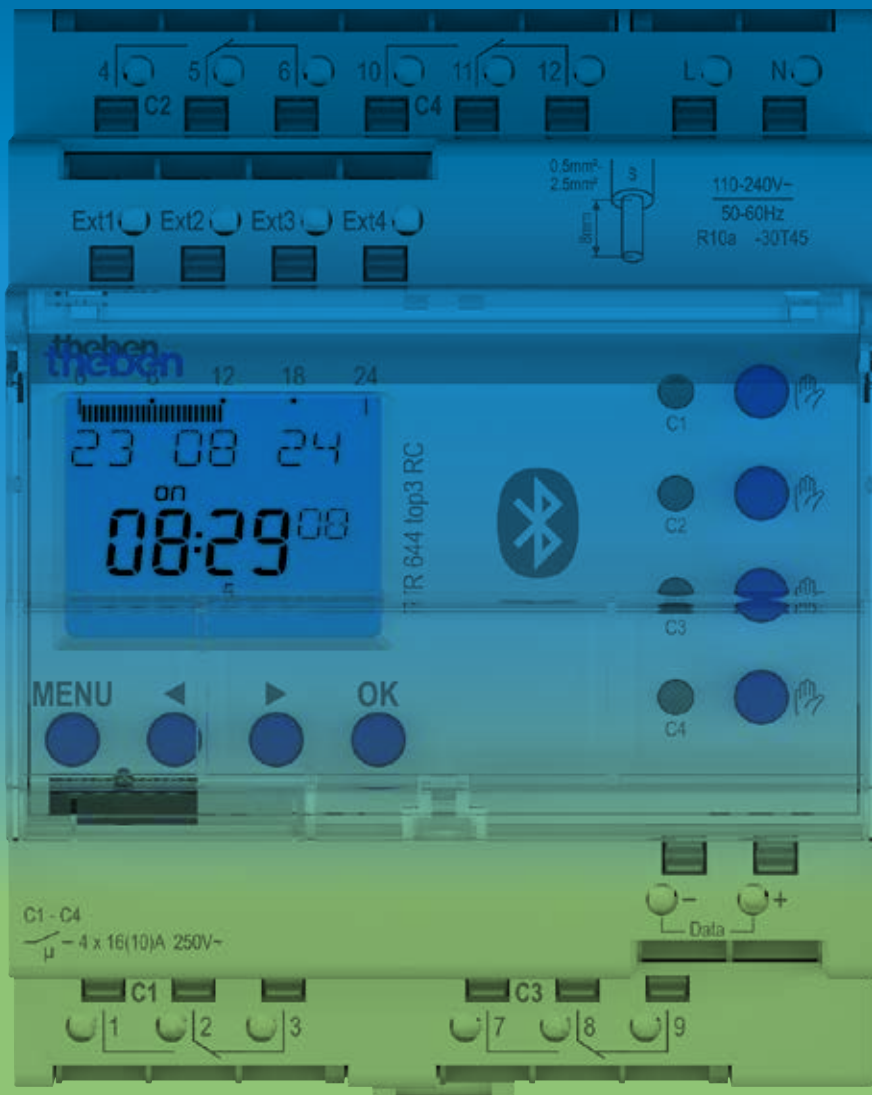


theben

Highlights #02 | 2024



Building Automation since 1921

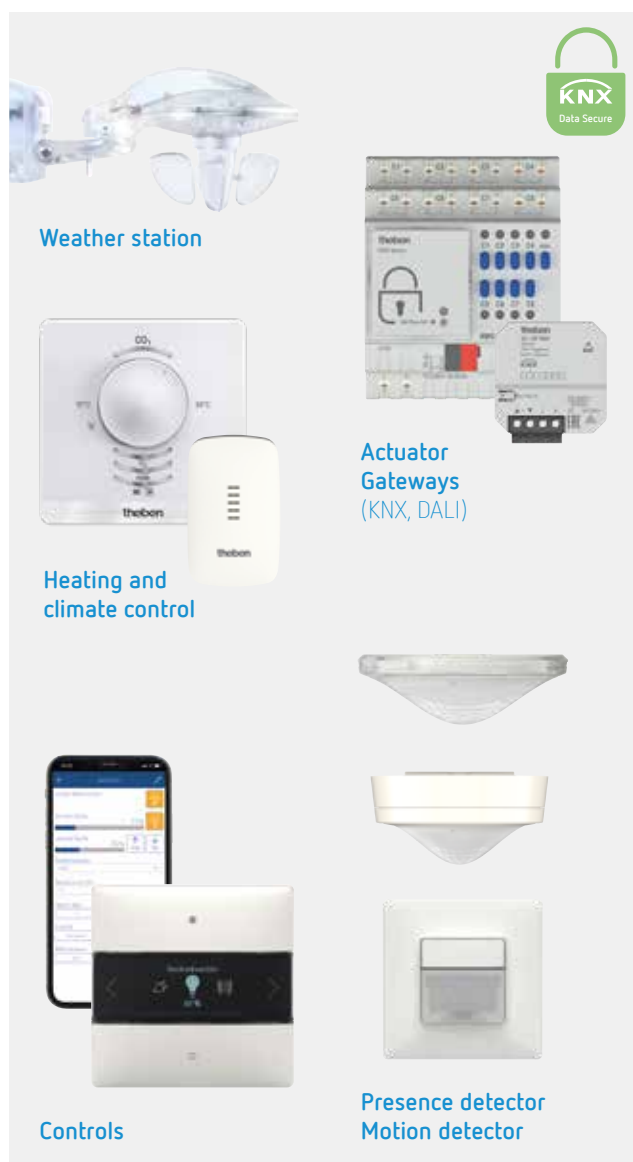
The full program for the intelligent buildings of tomorrow Products, solutions and systems

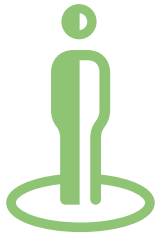


Building Automation
& Smart Home



Home and
building automation





Presence & Motion Detectors, Lighting



Time, light & climate control



Motion detector
(230 V, KNX)



Presence detector
(230 V, KNX, DALI-2)
Presence sensors
(DALI-2)



Timers
Staircase light timer
Impulse switch



Twilight switch



LED lights
(With and without a detector,
also remote controllable via app)



Dimming



Thermostats
CO₂ sensors



Tamper-proof communication: Theben KNX push-button interfaces With KNX Data Secure



The Theben KNX push-button interfaces with 2, 4, 6 or 8 channels now support KNX Data Secure. This means they are optimally protected against data theft and manipulation. All devices have universal inputs/outputs with up to 3 mA output current and therefore also enable the control of commercially available LEDs and low current LEDs. In addition, the 4-, 6- and 8-channel devices offer the option of connecting a temperature sensor (NTC 100k) and can therefore also be used for temperature measurement in heating/air conditioning control. The KNX push-button interfaces support all common data point types and can therefore be used flexibly. Thanks to the update capability of all devices, new functions or optimizations can be easily implemented via firmware updates.

Common properties

- KNX Data Secure
- Universal input/output, also for controlling LEDs
- Connection option for temperature sensor, NTC 100k (not possible with TA2.1 KNX)

Theben push-button interfaces Secure are available in variants for native KNX systems and for the KNX smart home system LUXORliving. The LUXORliving devices also offer secure commissioning and communication thanks to RF encryption.

More information at: www.theben.co.uk



Home and building automation

LUXORliving smart home system - push-button interfaces

LUXORliving binary inputs/button interfaces UP

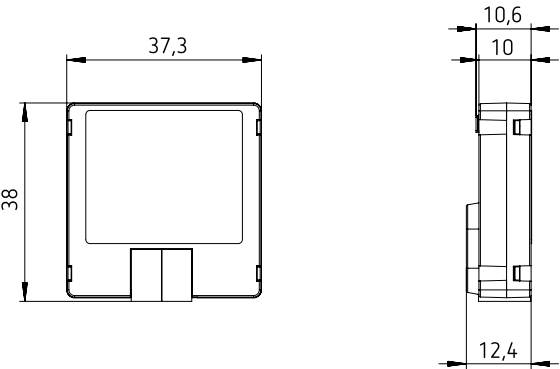


- Binary input push-button interface LUXORliving
- Can be installed in flush-mounted boxes with conventional push-buttons/switches
- Software functions: Switch/button, dimming, blinds
- Connectable cable length up to 30 m
- LUXORliving T4/T8: 2 NTC inputs for temperature detection (with accessories 9070321,9070459,9070496)

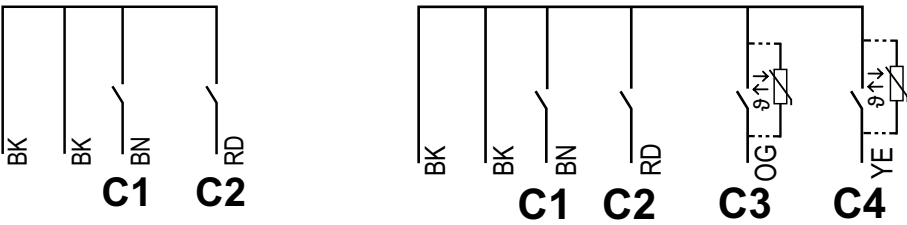
Number of channels	Type	Item no.
2	LUXORliving T2.1	4800403 *
4	LUXORliving T4.1	4800405 *
8	LUXORliving T8.1	4800409 *

* Available from November 2024

Dimensioned drawing

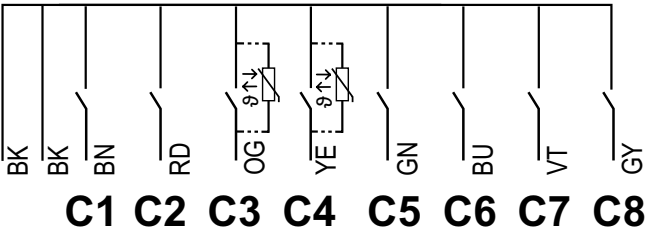


Connection examples



4800403

4800405



4800409

KNX binary inputs/flush-mounted push-button interfaces

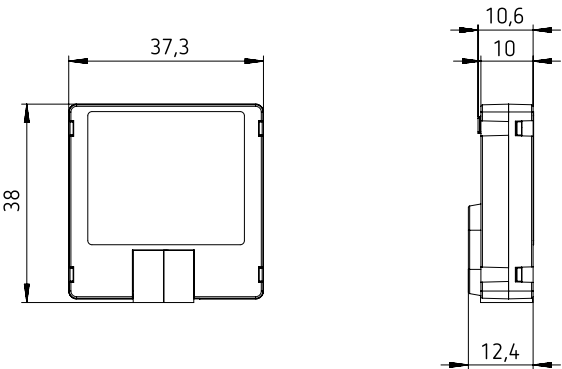


- Binary input push-button interface KNX TP
- Can be installed in flush-mounted boxes with conventional push-buttons/switches
- Secure commissioning and communication through support of KNX Data Secure
- Flexible LED control, thanks to increased output current of 3 mA, commercially available LEDs and low current LEDs can be controlled
- Inputs can be re-parameterized to outputs with parameterizable flashing and pulsing function
- Identification of the wire pairs via color coding
- TA 4.1 /TA 6.1/TA 8.1: 2 NTC inputs for temperature detection (with accessories 9070321,9070459,9070496)
- Connectable cable length up to 30 m

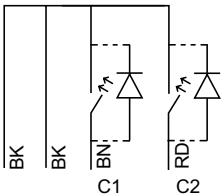
Number of channels	Type	Item no.
2	TA 2.1 KNX	4969272 *
4	TA 4.1 KNX	4969274 *
6	TA 6.1 KNX	4969276 *
8	TA 8.1 KNX	4969278 *

* Available from November 2024

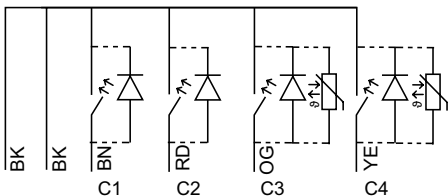
Dimensioned drawing



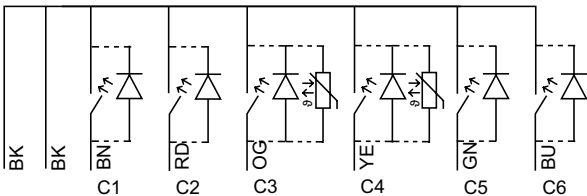
Connection examples



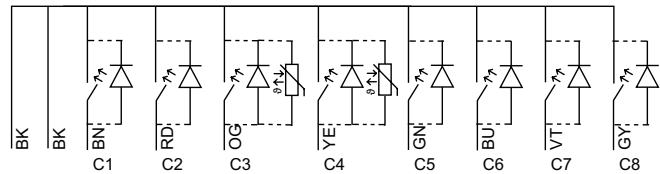
4969272



4969274



4969276



4969278



Wireless lighting control: DALI-2 presence sensors can now also be used in Casambi systems

Theben DALI-2 presence sensors from the Ronda, thePassa and PlanoSpot series can now also be used in wireless Casambi systems for lighting control. The basis for this is a Casambi control module as an interface between the DALI bus and Casambi-compatible luminaires. Adaptations to the presence sensors are not necessary. Optionally, the Casambi module can also be used as a DALI-2 actuator.

With Casambi, wired DALI-2 systems can be extended wirelessly. This opens up new, flexible possibilities for retrofitting existing DALI-2 lighting control systems, for example in offices, conference rooms, hotels and other buildings.

About Casambi

Casambi is based on Bluetooth Low Energy, which can be found in all modern smartphones, tablets and smartwatches. The technology forms a mesh network that enables robust, encrypted device-to-device communication within a lighting network. Over-the-air updates allow new functions to be installed on all installed devices. Countless component manufacturers and over 300 luminaire manufacturers with over 1,000 products are already part of the Casambi ecosystem. All Casambi Ready products can be configured and controlled via the Casambi app.

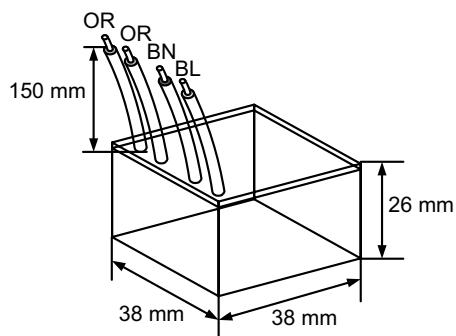
CASAMBI module



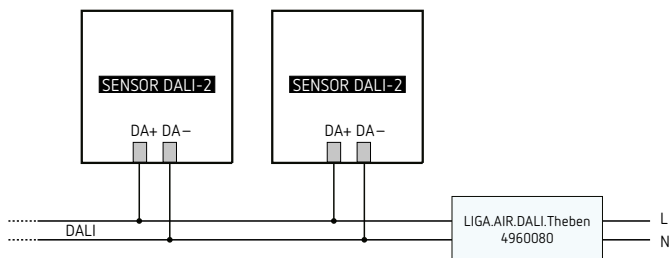
- Smallest DALI module for 100-240 V AC, up to 50 DALI devices
- Lowest power consumption, max. 3 watts.
- Simply put into operation via CASAMBI.
- Control via the free Casambi app
- Input voltage range from 100-240 volts AC
- DALI-BUS output up to max. 100mA
- ABS housing
- The compact design of the housing enables easy installation in a flush-mounted box or in a cable duct

Type	Item no.
LIGA.AIR.DALI.Theben	4960080

Dimensioned drawing



Connection example



Energy efficiency and programmability

Extension of the top3 series

Now also with annual program

We are completing our portfolio with the new digital annual time switches in the top3 range. The top3 annual time switches are ideal for astro/time-controlled switching of street, shop window or advertising lighting, for lighting control in and around public buildings and parking garages as well as for school bells and ventilation systems, pumps and fountains and other applications.



The highlights at a glance:

- **BLE on board:** transmission from PC/tablet/mobile phone directly to the annual time switch
- **Time AND astro functions :** 3 astro times civil, nautical, astronomical twilight
- **16 special programs** with annual programs
- **Countless application possibilities:** with functions hidden behind the external inputs
- **Earth hour:** select once and program up to 2044
- **Central off function:** via external input, enables simple vacation switching, for example
- Databus for GNSS and DCF
- **Better switching capacity 16A on all channels**
- **Compatibility with old generation of devices:** easily transferable via OBELISK
- **NEW Smart operation:** Possibility to program via smartphone.

top3 annual time switch

With a wide range of options

Functions and benefits

NEW!

Now also top3
annual time switch
and special voltage



Zero-crossing circuit

Thanks to zero-cross switching, you can safely manage the high inrush currents of LEDs. With top3, you can switch 5 times the LED power compared to top2 (maximum 600 watts). In addition, the relay contact is protected and the service life of top3 devices is extended.



Low standby consumption

Many devices consume energy in standby mode, which adds up to considerable energy consumption over the course of the year and has a negative impact on the environment. In the new annual timer, we have reduced standby consumption by over 60 % from 1.3 W to 0.5 W compared to previous devices.



High investment protection

Bluetooth Low Energy is a future-proof technology that is already being used successfully in the smart home sector. It supports both Android and iOS and guarantees long-term protection of your investment.



Maximum security against tampering

The top3 annual time switch works with a local Bluetooth connection in your home. You don't need a cloud or additional gateways or routers. The BLE can also be deactivated at any time.



Convenient operation

Program timer programs easily on your smartphone or tablet (Android & iOS) - graphically or in list form. Send direct commands from the app to the clock. The time updates automatically when connected to the smartphone.



Quality "Made in Germany"

All devices in the top3 range are developed and produced here in Haigerloch. Our 100% final inspection in production ensures that each of our products leaves our company in perfect condition.



Integrated geocoordinates

The app takes your current location from the location function of the mobile device. This can be transmitted to the astronomical time clocks and saves you the time-consuming manual entry of your geocoordinates (longitude and latitude).



Voltage-free transmission of programs

A time switch program can also be transferred to a top3 device without a mains connection. Prepare the clock for installation by simply transferring the time program in battery mode.



17 languages available in the device

You can easily select one of 17 languages in the menu.



Save, send and transfer

Save time programs directly from the app in the cloud, send programs by email or transfer them from smartphone to smartphone. It could hardly be more convenient.

Time and light control

Digital timers

Digital time switches, REG, annual/astro program, 3/4 TE



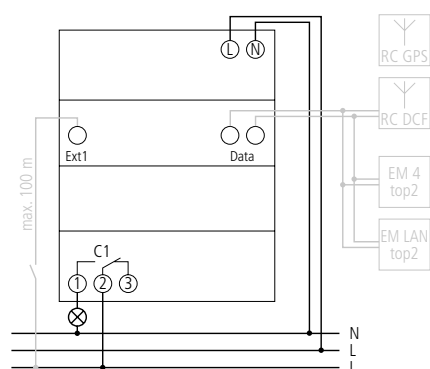
- Digital timer with annual and astro program
- App programming possible thanks to integrated BLE module
- Time synchronization by connecting an external DCF or GNSS antenna, with GNSS additional position determination for Astro program
- External inputs
- DuoFix spring clips
- Text-oriented user guidance on the display
- 800 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10-year power reserve (lithium battery)
- Zero-crossing circuit for relay-friendly switching and high lamp loads (not for 24 V devices)
- ON-OFF switching times
- Impulse program
- Cycle program
- Extensive year clock functions
- Astronomical switching function (automatic calculation of sunrise and sunset times for the whole year)
- Astro selectable per channel "3 astro ranges: sunset, twilight, darkness"
- Circuit preselection
- Continuous ON/OFF
- Central duration OFF "Easiest switch-off during vacations"
- Expiry timer
- Integrated operating hours counter
- Holiday program
- 2 random programs
- Display illumination (can be switched off)
- PIN coding
- Automatic summer/winter time changeover
- Earth Hour pre-programmed until 2044

Program	Program functions	Number of channels	External antenna can be connected	Operating voltage	Number of inputs	Wide	LED lamp	Type	Item no.
Annual program, Astro program	ON-OFF, pulse, cycle	1	✓	110-230 V AC	1	3 TE	600 W	TR 641 top3 BLE RC	6410330 *
		2	✓	110-230 V AC	2	3 TE	600 W	TR 642 top3 BLE RC	6420330 *
		2	✓	12-24 V UC	2	3 TE	20 W	TR 642 top3 BLE 12-24V RC	6424330 **
		4	✓	110-230 V AC	4	4 TE	600 W	TR 644 top3 BLE RC	6440330 *

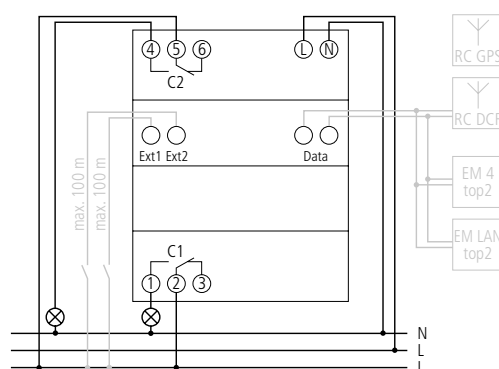
* Available from December 2024

** Available from January 2025

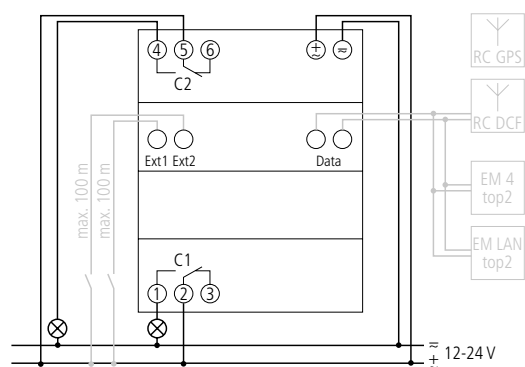
Connection example



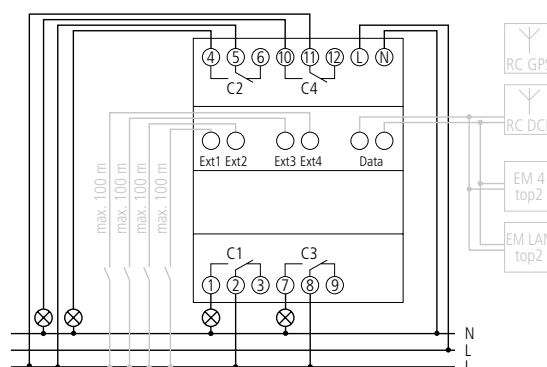
6410330



6420330



6424330



6440330

Digital time switches, REG, 2 TE, 12-24 V UC

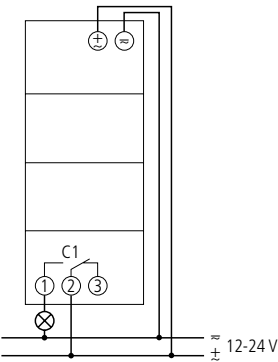


- Digital timer
- 1 channel, 2 TE
- App programming possible
- Secure transmission via optional Bluetooth Low Energy OBELISK top3
- Maximum tamper protection, time switch programs can only be transferred from the app to the watch if the Bluetooth OBELISK top3 is inserted in the watch
- 100 % compatible with top2
- DuoFix spring clips
- Text-oriented user guidance on the display
- 56 memory locations
- Interface for OBELISK top2 memory card (PC programming)
- 10-year power reserve (lithium battery)
- ON-OFF switching times
- Circuit preselection
- Continuous ON/OFF
- Integrated operating hours counter
- Holiday program
- Display illumination (can be switched off)
- PIN coding
- Automatic summer/winter time changeover
- [TR 610 top3 12-24V](#)
- Digital timer with weekly program
- [SELEKTA 170 top3 12-24V](#)
- Astro timer with weekly program
- Astronomical switching function (automatic calculation of sunrise and sunset times for the whole year)
- Calculated Astro switching times

Program functions	Number of channels	Programming via app	Switching power	Operating voltage	LED lamp	Program	Type	Item no.
ON-OFF	1	✓ (via optional accessories)	16 (2) A	12-24 V UC	20 W	Weekly program,	TR 610 top3 12-24V	6104130 *
						Weekly program, Astro program	SELEKTA 170 top3 12-24V	1704130 *

* Available from January 2025

Connection example



Time and light control

Analog timer modules

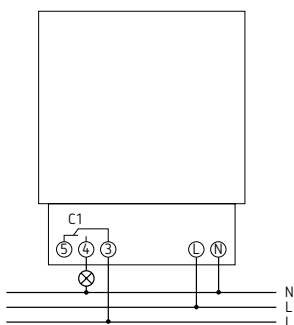
Analog timer modules



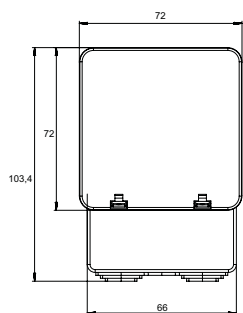
- Analog timer modules
- 1 channel
- Daily program
- Shortest switching time: 15 minutes
- Clock hand for time display
- Circuit preselection
- Switching status display

Mounting type	Power reserve	Switching capacity	Operating voltage	Type	Item no.
Wall mounting	-	16 (8) A	230 V AC	SYN 164 FM WM	1640200
	✓	16 (8) A	110-230 V AC	SUL 184 FM WM	1840200
Flush-mounted switch cabinet	-	16 (8) A	230 V AC	SYN 164 FME	1640300
	✓	16 (8) A	110-230 V AC	SUL 184 FME	1840300

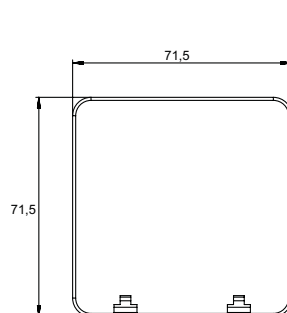
Connection example



Dimensional drawings



1640200, 1840200



1640300, 1840300

App-solutely convenient commissioning and operation via app

Theben apps are characterized by convenient, safe and almost playfully simple operation. And best of all, they are available to download free of charge from the app stores. You can find everything about our apps at www.theben.de/app-en

You can find our apps in the most popular stores

→ Anroid: Google Play Store

→ iOS: Apple Store

→ iONplay

Program and control the
iON 108 KNX room controller

→ LUXORplay

Control and operate the LUXORliving
smart home system with ease

→ DALI-2 RS Plug

Simply put DALI-2 components
into operation

→ thePixa Plug

Set up zones and more with thePixa
optical presence detector.

→ theSenda Plug

Easily program LED spotlights, presence
and motion detectors

→ OBELISK top3

Simply program digital timers

→ MAXplus

Control and program the DIMAX 545 plus P

→ RAMSES BLE

Easily program and control the
RAMSES room thermostat

→ RAMSES top3

Easily program and control
RAMSES top3 series clock thermostats



theben

Theben AG
Hohenbergstraße 32 • 72401 Haigerloch • Germany
Phone +49 7474 692-0
info@theben.de • www.theben.co.uk

Service Hotline

hotline@theben.de
Phone +49 7474 692-369
Mon–Thu 7am–6pm, Fri 7am–4pm



3724
Subject to technical changes and
improvements.