

Mec Driver - Radio / Zigbee control

Frequency range: 2.4-2.4835 GHz
Transmission power: 10 db



DE - Vereinfachte EU-Konformitätserklärung

Hiermit erklärt L&S Deutschland GmbH, dass der Funkanlagentyp 941300021/941300022/756200006/756200007 der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar:

GB - Simplified EU declaration of conformity

The company L&S Deutschland GmbH hereby declares that the radio system type 941300021/941300022/756200006/756200007 satisfies the Directive 2014/53/EU. The complete text of the EU declaration of conformity is available online under the following link:

FR - Déclaration de conformité européenne simplifiée

L&S Deutschland GmbH déclare par la présente que le type de système radio 941300021/941300022/756200006/756200007 est conforme à la directive 2014/53/UE. Le texte complet de la déclaration de conformité UE est disponible à l'adresse Internet suivante :

NL - Vereenvoudigde EG-conformiteitsverklaring

Hiermee verklaart L&S Deutschland GmbH, dat het radiotype 941300021/941300022/756200006/756200007 aan de richtlijn 2014/53/EU voldoet. De volledige tekst van de EG-conformiteitsverklaring is onder het volgende internetadres verkrijgbaar:

ES - Declaración de conformidad de la UE simplificada

L&S Deutschland GmbH declara que el equipo de radio 941300021/941300022/756200006/756200007 cumple la Directiva 2014/53/UE. El texto completo de la Declaración de conformidad de la UE está disponible en la siguiente dirección de Internet:

IT - Dichiarazione di conformità UE semplificata

Con la presente la L&S Deutschland GmbH dichiara che il tipo di impianto radio 941300021/941300022/756200006/756200007 è conforme alla Direttiva 2014/53/UE. Il testo integrale della Dichiarazione di conformità UE è consultabile al seguente indirizzo internet:

GR - Απλοποιημένη δήλωση συμμόρφωσης ΕΕ

Με το παρόν η L&S Deutschland GmbH δηλώνει ότι ο τύπος τηλεπικοινωνιακής εγκατάστασης 941300021/941300022/756200006/756200007 ανταποκρίνεται στην οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ είναι διαθέσιμο στην παρακάτω ηλεκτρονική διεύθυνση:

PT - Declaração de conformidade CE simplificada

Pela presente, a L&S Deutschland GmbH declara que o modelo de equipamento de rádio 941300021/941300022/756200006/756200007 está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade CE está disponível no seguinte endereço de Internet:

SE - Förenklad försäkran om överensstämmelse (EU)

Härmed förklarar L&S Deutschland GmbH, att radioanläggningstypen 941300021/941300022/756200006/756200007 uppfyller direktiv 2014/53/EU. Den fullständiga texten i försäkran om överensstämmelse (EU) återfinns på följande internetadress:

DK - Forenklet EU-oversensstemmelseserklæring

Herved erklærer L&S Deutschland GmbH, at radioanlægstypen 941300021/941300022/756200006/756200007 opfylder direktiv 2014/53/EU. Den fuldstændige EU-oversensstemmelseserklæringstekst er tilgængelig på følgende internetadresse:

FI - Yksinkertaistettu EU-vaatimustenmukaisuusvakuutus

Täten L&S Deutschland GmbH vakuuttaa, että radiolaitetyyppi 941300021/941300022/756200006/756200007 vastaa direktiiviä 2014/53/EU. Täydellinen EU-vaatimustenmukaisuusvakuutus on luettavissa seuraavassa internetosoitteessa:

NO - Forenklet EU samsvarserklæring

Herved erklærer L&S Deutschland GmbH, at trådløslegget 941300021/941300022/756200006/756200007 er i samsvar med EU-direktiv 2014/53/EU. Den fullstendige EU-samsvarserklæringen finnes på denne nettsadressen:

RO - Declarație de conformitate UE simplificată

Prin prezenta, L&S Deutschland GmbH declară că tipul instalației radio 941300021/941300022/756200006/756200007 corespunde Directivei 2014/53/UE. Textul complet al Declarației de conformitate UE este disponibil la următoarea adresă de internet:

RU - Упрощенная декларация о соответствии стандартам ЕС

Настоящим компания L&S Deutschland GmbH заявляет, что радиооборудование тип 941300021/941300022/756200006/756200007 соответствует Директиве 2014/53/ЕС. Полный текст декларации о соответствии стандартам ЕС доступен по следующей ссылке:

CZ - Zjednodušené EU prohlášení o shodě

Tímto společnost L&S Deutschland GmbH prohlašuje, že typ rádiového zařízení

941300021/941300022/756200006/756200007 splňuje požadavky směrnice 2014/53/EU. Uplněně znění EU prohlášení o shodě je k dispozici na této internetové adrese:

HR - Pojednostavljena Izjava o skladnosti s propisima Europske unije

Ovim dokumentom tvrtka L&S Deutschland GmbH izjavljuje da tip bežičnog uređaja 941300021/941300022/756200006/756200007 ispunjava zahtjeve Direktive 2014/53/EU. Potpuni tekst izjave o skladnosti s propisima Europske unije dostupan je na sljedećoj internetskoj adresi:

HU - Egyszerűsített EU Megfelelésegi Nyilatkozat

Az L&S Deutschland GmbH ezennel kijelenti, hogy a(z) 941300021/941300022/756200006/756200007 rádiórendszer típus megfelel a 2014/53/EU irányelvnek. Az EU Megfelelésegi nyilatkozat teljes szövege az interneten az alábbi címen érhető el:

SK - Zjednodušené vyhlásenie o zhode EÚ

Týmto spoločnosť L&S Deutschland GmbH vyhlasuje, že typ rozhlasového zariadenia 941300021/941300022/756200006/756200007 spĺňa smernicu 2014/53/EU. Cely text vyhlásenia o zhode EÚ je dostupný na tejto internetovej adrese:

SI - Poenostavljena EU izjava o skladnosti

L&S Deutschland GmbH izjavlja, da je vrsta radijske opreme 941300021/941300022/756200006/756200007 skladna z Direktivo 2014/53/EU. Celotno besedilo EU izjave o skladnosti je na voljo na naslednjem spletnem naslovu:

RS - Pojednostavljena Izjava o usaglasenosti sa propisima Evropske unije

Ovim dokumentom preduzeće L&S Deutschland GmbH izjavljuje da tip bežičnog uređaja 941300021/941300022/756200006/756200007 ispunjava zahtev Direktive 2014/53/EU. Kompletan tekst Izjave o usaglasenosti sa propisima Evropske unije je dostupan na sledećoj internetskoj adresi:

TR - Basitleştirilmiş AB Uygunluk Beyanı

Bu belge ile L&S Deutschland GmbH, 941300021/941300022/756200006/756200007 telsiz ekipmanı modelinin 2014/53/AB sayılı direktife uygun olduğunu beyan eder. AB Uygunluk Beyanı'nın tam metnine şu internet adresinden ulaşabilirsiniz:

PL - Uproszczona deklaracja zgodności UE

Firma L&S Deutschland GmbH oświadcza niniejszym, że typ urządzenia radiowego 941300021/941300022/756200006/756200007 jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny na następującej stronie internetowej:

BG – Опростена декларация за съответствие на ЕС

С настоящото L&S Deutschland GmbH декларира, че видът на системата 941300021/941300022/756200006/756200007 отговаря на Директива 2014/53/ЕС. Пълният текст на декларацията за съответствие на ЕС можете да намерите на интернет адрес:

EE - Lihtsustatud ELi vastavusdeklaratsioon

Käesolevaga kinnitab L&S Deutschland GmbH, et raadioseadme tüüp 941300021/941300022/756200006/756200007 vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on saadaval järgmisel Interneti-aadressil:

IE - Dearbhú Comhréireachta AE Simplithe

Dearbhánonn L&S Deutschland GmbH leis seo go bhfuil an trealamh craolta 941300021/941300022/756200006/756200007 ag teacht le Treoir 2014/53/AE. Tá téacs iomlán an dearbhú comhréireachta AE ar fáil ag an seoladh Idirlin seo a leanas:

LV – Vienkāršota ES atbilstības deklarācija

Ar šo L&S Deutschland GmbH apliecinā, ka radioierīces tips 941300021/941300022/756200006/756200007 atbilst Direktīvai 2014/53/ES. ES atbilstības deklarācijas pilnais teksts ir pieejams šajā tīmekļa vietnē:

LT - Supaprastinta ES atitikties deklaracija

Bendrovė „L&S Deutschland GmbH“ patvirtina, kad 941300021/941300022/756200006/756200007 modelio radijo įrenginys atitinka Direktyvos 2014/53/ES reikalavimus. Visą ES atitikties deklaracijos tekstą galima rasti šiuo interneto adresu:

MT - Dikjarazzjoni ta' Konformità tal-UE Simplifikata

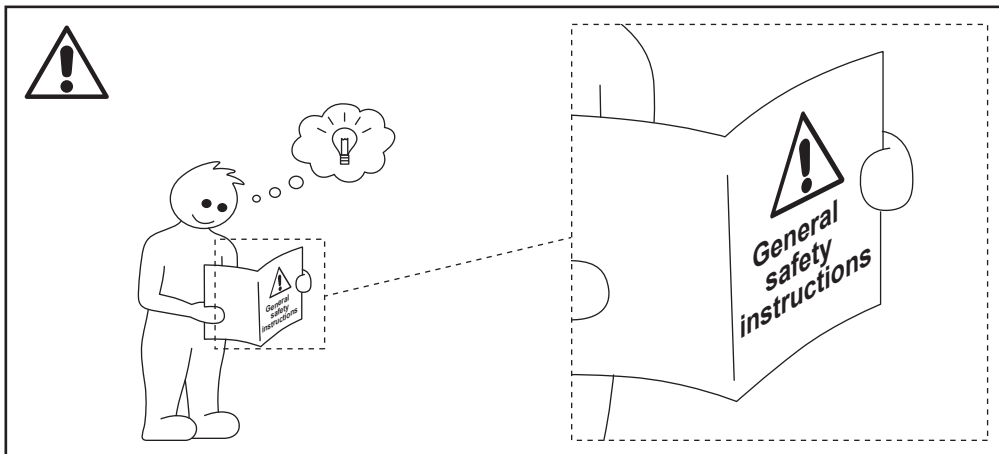
B'dan L&S Deutschland GmbH tidjkkjara li t-tip ta' taqħmir tar-radju 941300021/941300022/756200006/756200007 jikkonforma mad-Direttiva 2014/53/UE. It-test sħiħ tad-Dikjarazzjoni ta' Konformità tal-UE huwa disponibbli fi-indirizz tal-Internet li ġej:



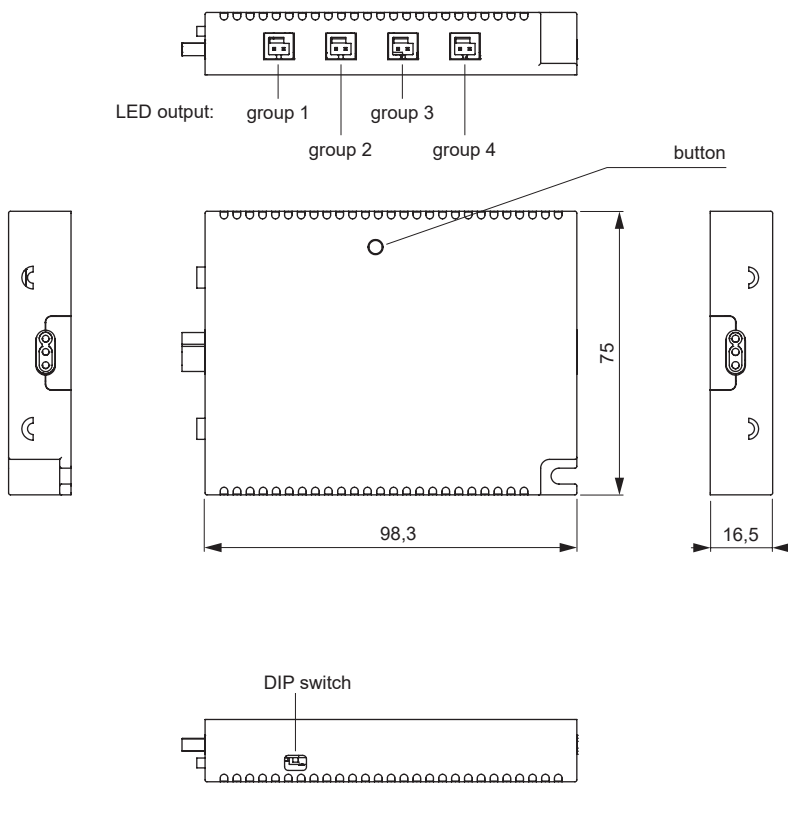
<https://ce.ls-deutschland.de>

Content

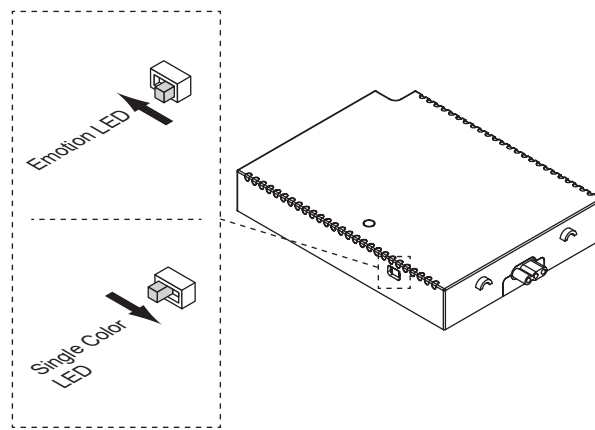
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4-channel receiver module



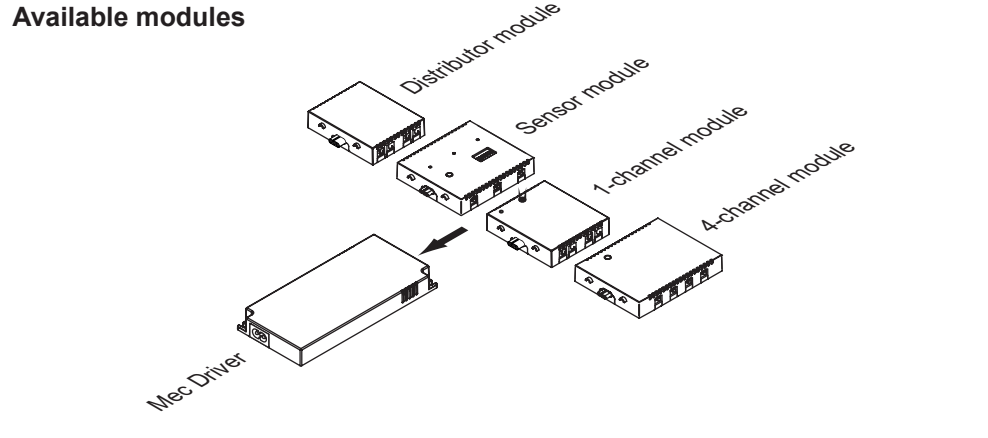
Setting for Emotion or Single Color LEDs via DIP switch



The diagram shows a receiver unit with a row of DIP switches. A dashed box highlights the first two switches. An arrow labeled 'Emotion LED' points to the first switch, which is in the 'up' position. Another arrow labeled 'Single Color LED' points to the second switch, which is in the 'down' position.

Attention!
Check and adjust before commissioning! If changes are made later, the receiver must be briefly disconnected from the mains voltage.

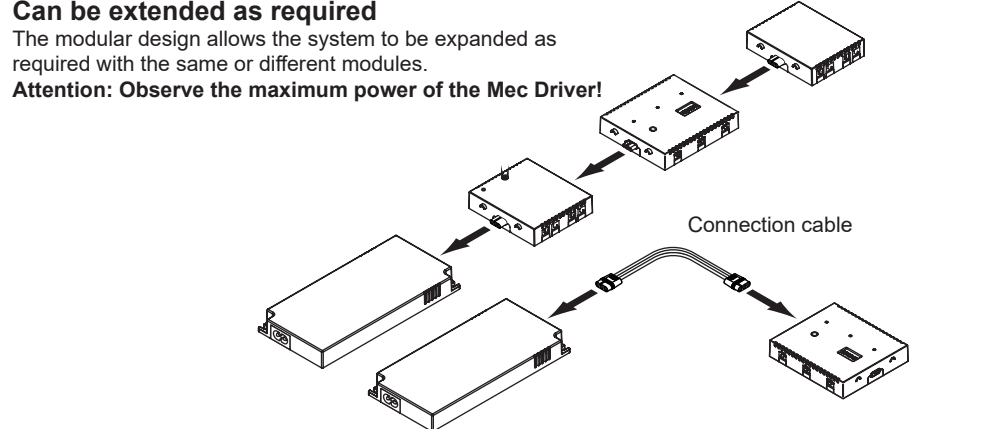
Available modules



The diagram shows five modules arranged in a line. From left to right: a 'Mec Driver' (a long, thin rectangular unit), a 'Distributor module' (a small square unit), a 'Sensor module' (a square unit with a sensor on top), a '1-channel module' (a square unit with one output), and a '4-channel module' (a square unit with four outputs). Arrows indicate the flow of signal from the Mec Driver through the other modules.

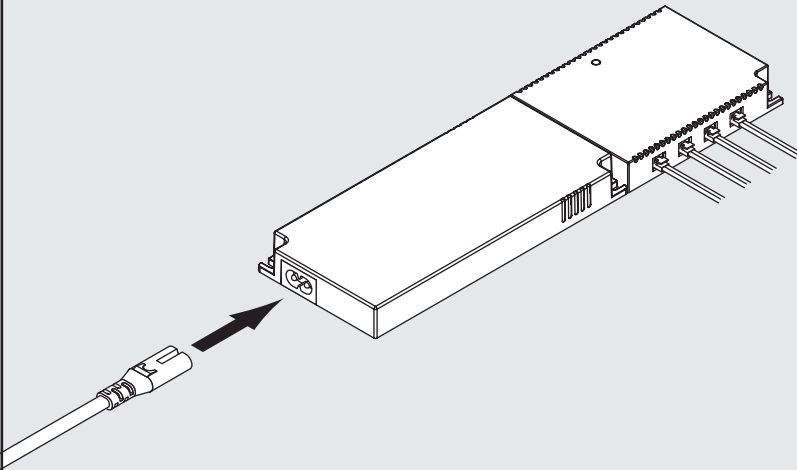
Can be extended as required
The modular design allows the system to be expanded as required with the same or different modules.

Attention: Observe the maximum power of the Mec Driver!

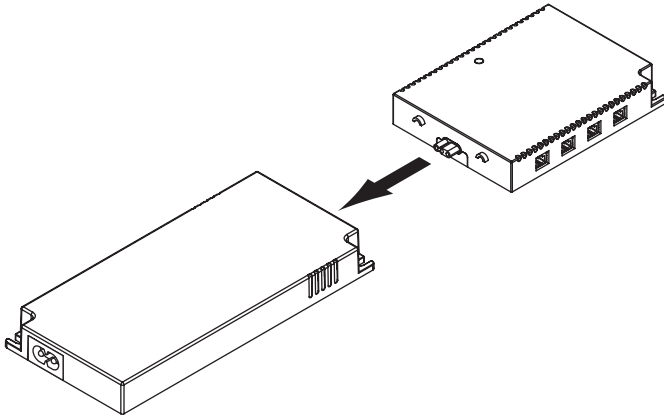


The diagram shows the system being expanded. A 'Mec Driver' is connected to a 'Distributor module', which is connected to a 'Sensor module'. A 'Connection cable' is used to connect the 'Sensor module' to a '4-channel module'. The '4-channel module' is then connected to a '1-channel module'.

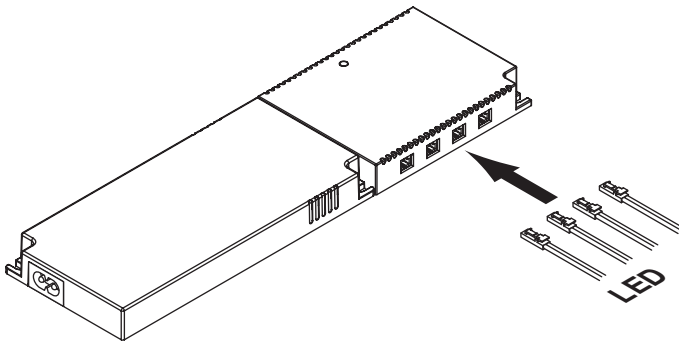
Connecting the components



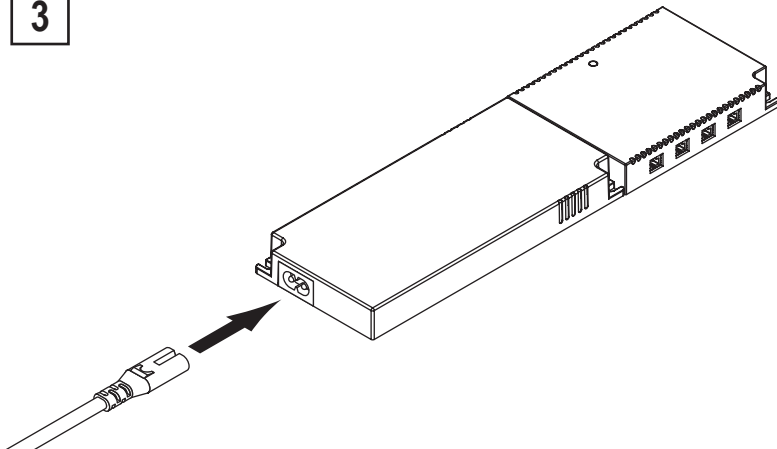
1



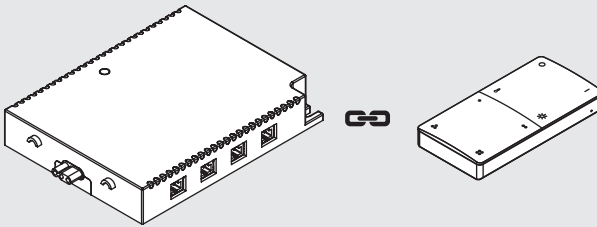
2



3

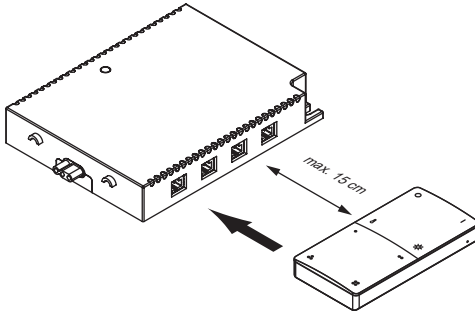


Direct connection (without ZigBee network)



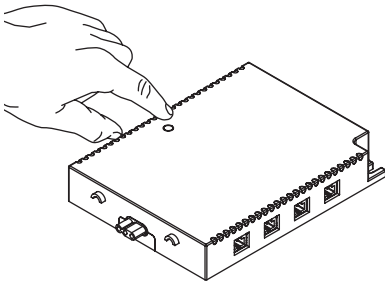
Programming the remote control

1. Place the receiver module and remote control close together. The distance must be less than 15 cm while the programming process is running.

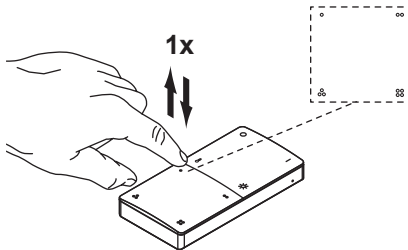


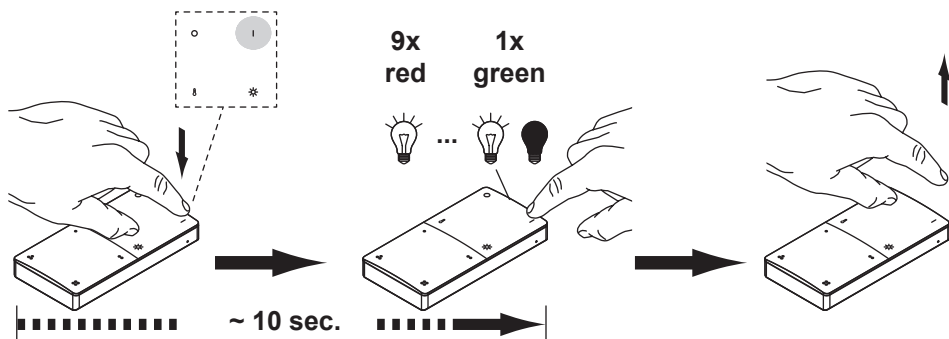
2. Select the channel you want to program:

- Channel 1: Press button **2x** briefly
- Channel 2: Press button **3x** briefly
- Channel 3: Press button **4x** briefly
- Channel 4: Press button **5x** briefly

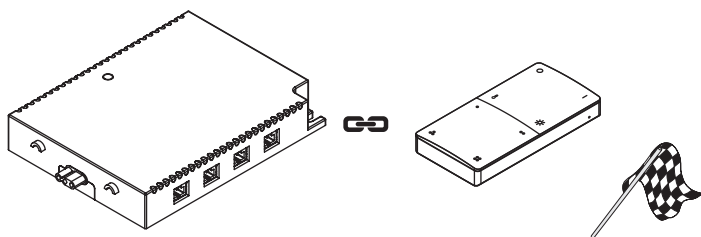


3. Press the button for the selected lighting group on the remote control.





4. Press the ON button for approx. 10 seconds until the status LED on the remote control lights up **green** once. (In the meantime, the status LED flashes red 9 times and the connected LEDs light up twice).

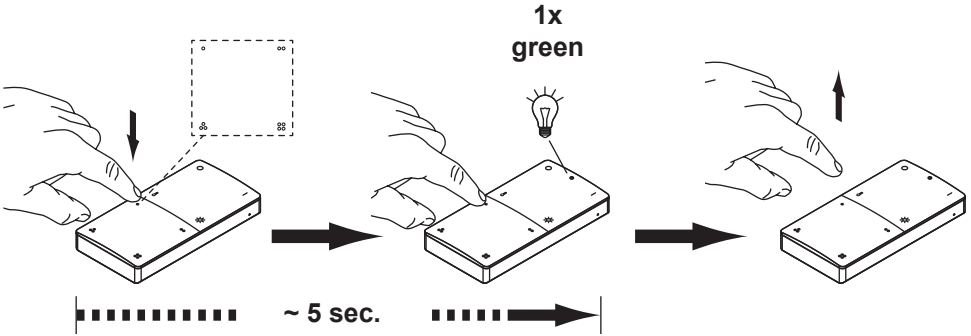


The remote control and the selected channel of the receiver module are now connected.

Note:

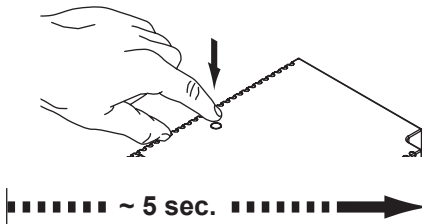
You can program several lighting groups to one channel of the remote control. To do this, repeat steps 1-4.

Disconnect remote control from lighting group

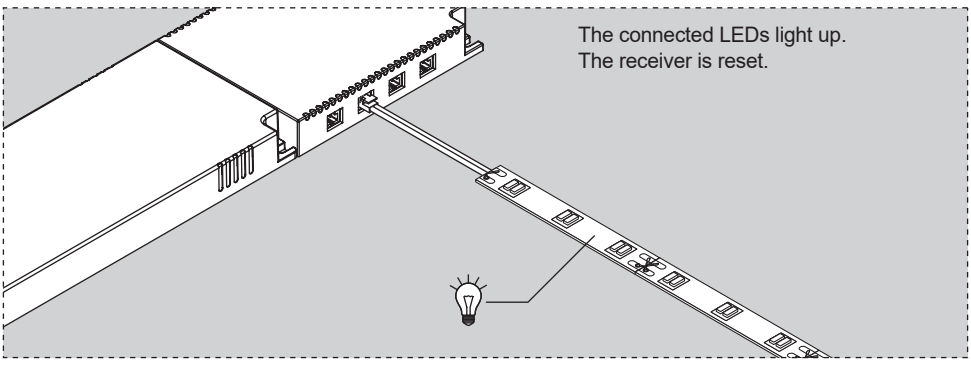


Press the button for the selected lighting group for approx. 5 seconds until the status LED on the remote control lights up **green** once. The programmed lighting groups on the receiver are now disconnected.

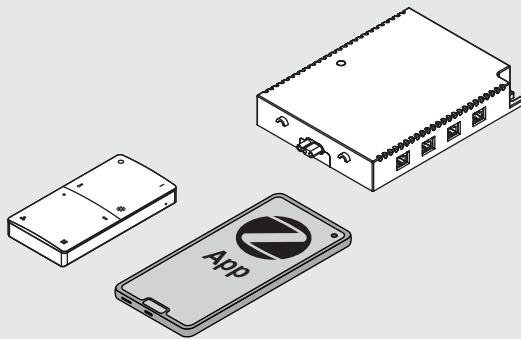
Reset receiver



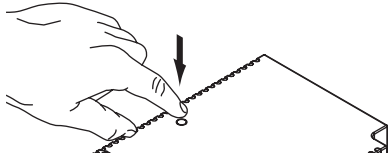
Press and hold the button on the receiver for approx. **5 seconds**.



Connection with ZigBee Bridge (Smart Home)

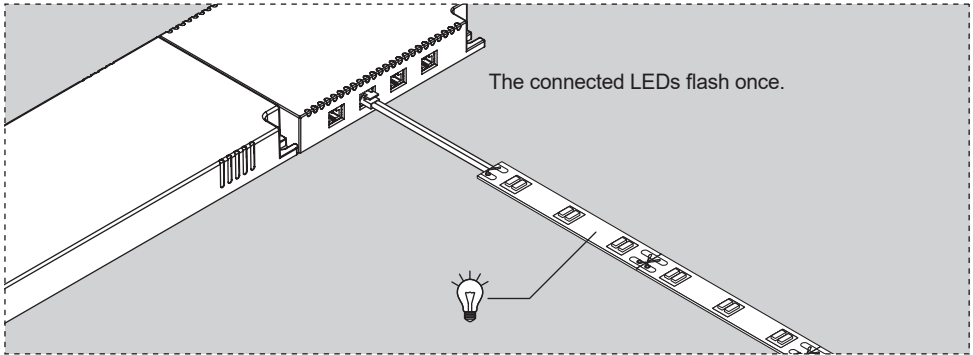


1 Reset receiver

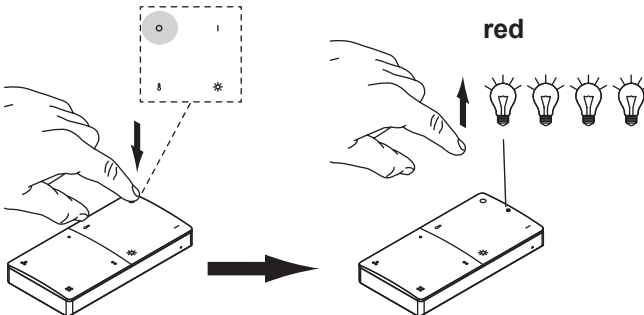


Press and hold the button on the receiver for approx. **5 seconds**.

..... ~ 5 sec.>



2 Set the remote control to programming mode



..... ~ 5 - 11 sec.>

Press and hold the OFF button (approx. 5 - 11 sec.), until the status LED on the remote control starts to flash **red**. The remote control is now in programming mode for **60 seconds**.

3 Connect with app

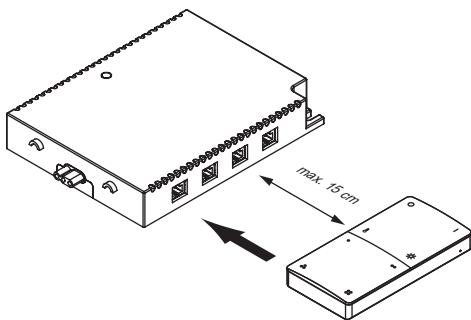
Open the Zigbee app.
Search for new lights. Follow the instructions in the app.



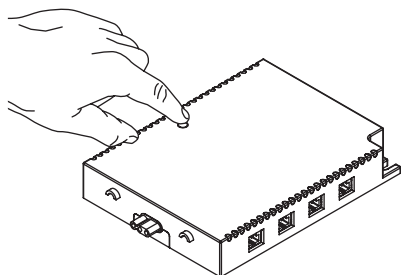
Wait until the remote control and receiver are recognized:

- The status LED of the remote control flashes green once and goes out as soon as the remote control is recognized.
- The receiver module is recognized in the app. 4 lights are displayed.

4 Connect receiver and remote control



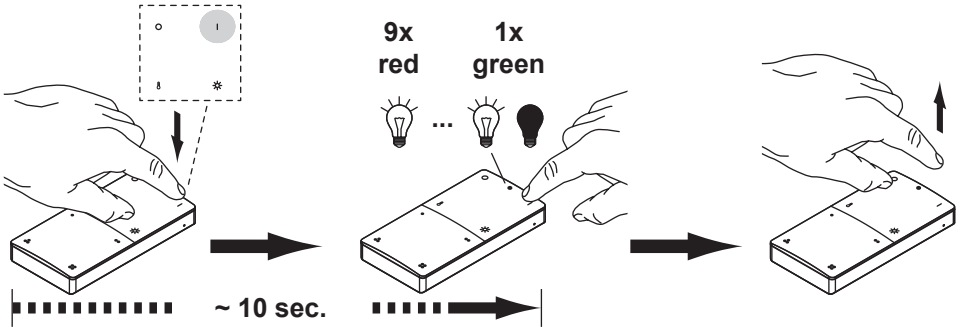
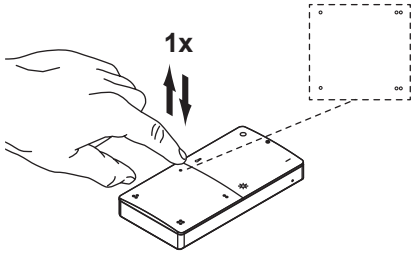
1. Place the receiver module and remote control close together. The distance must be less than 15 cm for as long as the teach-in process lasts.



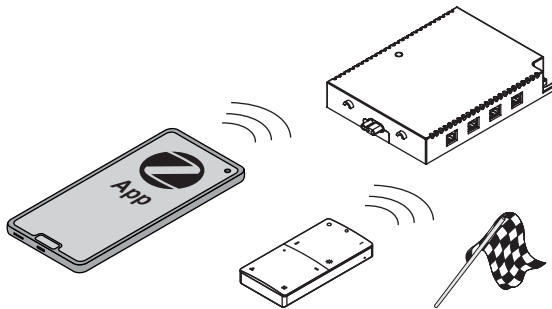
2. Select the channel you want to program:

Channel 1: Press button **2x** briefly
 Channel 2: Press button **3x** briefly
 Channel 3: Press button **4x** briefly
 Channel 4: Press button **5x** briefly

3. Press the button for the selected lighting group on the remote control.

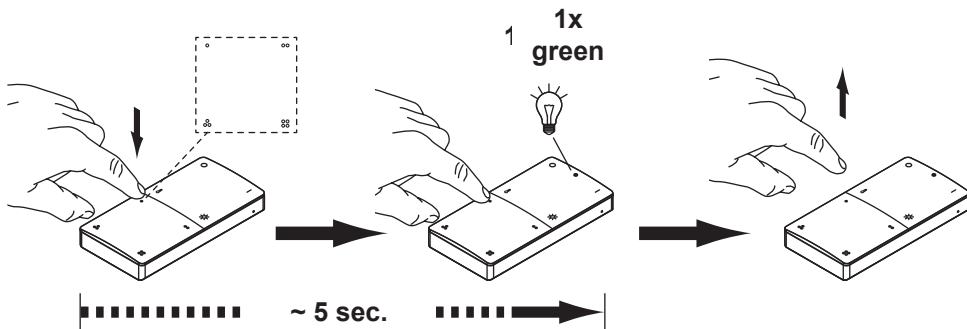


4. Press the ON button for approx. 10 seconds until the status LED on the remote control lights up **green** once. (In the meantime, the status LED flashes red several times and the connected LEDs light up twice).



The selected lighting group can now also be controlled by the remote control. Repeat steps 1-4 for further channels.

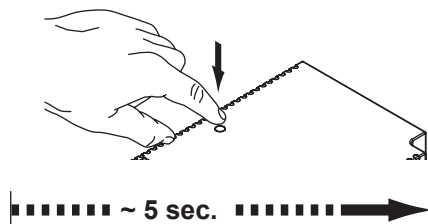
Disconnect remote control from lighting group



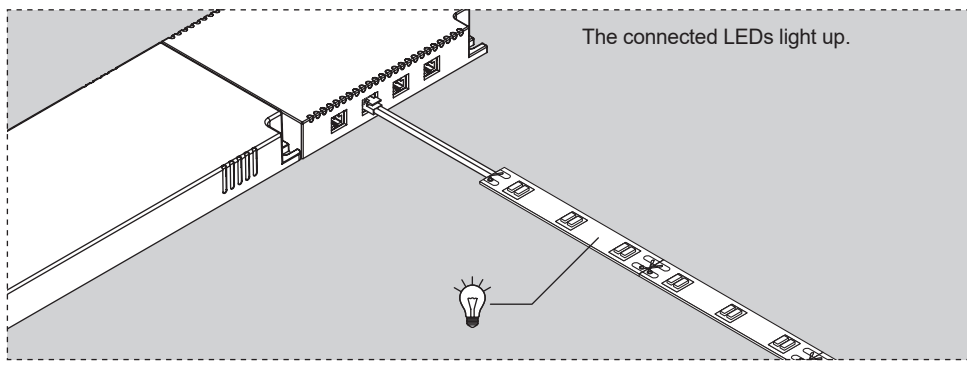
Press the button for the selected lighting group for approx. 5 seconds until the status LED on the remote control lights up **green** once. The remote control is disconnected from the lighting group.

The remote control is still in the ZigBee network. You can reconnect the receiver and remote control at any time (see 4: Connecting the receiver and remote control).

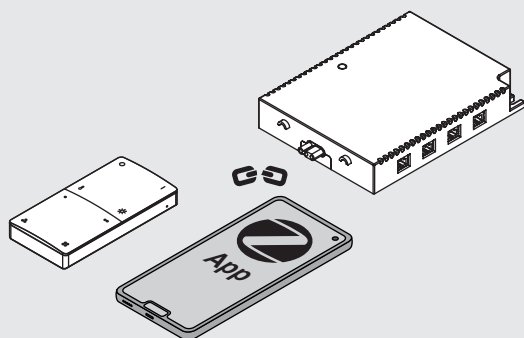
Reset receiver



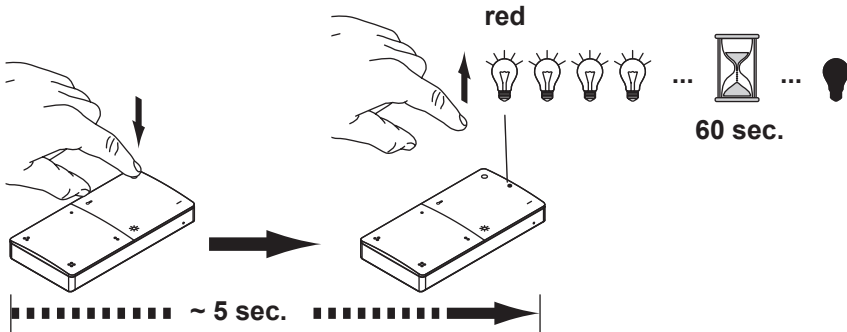
Press and hold the button on the receiver for approx. **5 seconds**.



Factory settings

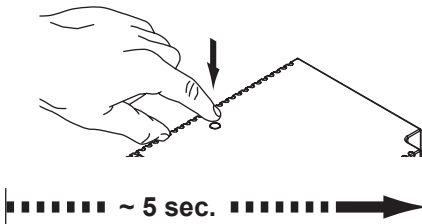


Reset remote control to factory settings

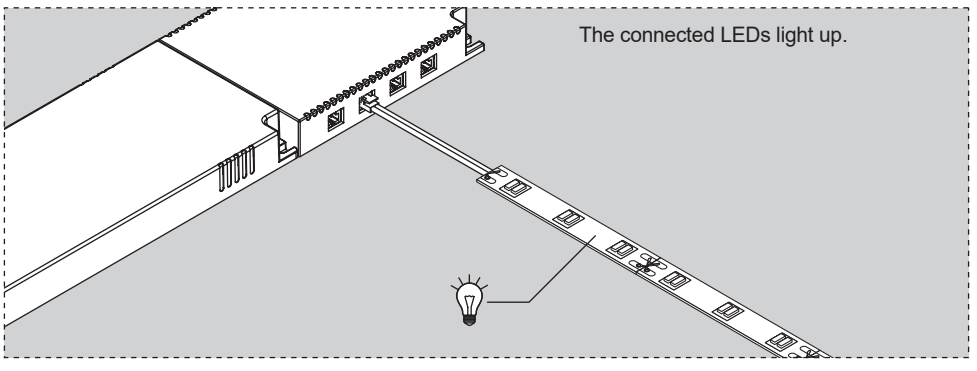


Press the OFF button for approx. 5 seconds. The status LED on the remote control flashes **red** for **60 seconds**. Wait until the status LED goes out. The remote control is now reset to the factory settings.

Reset receiver to factory settings



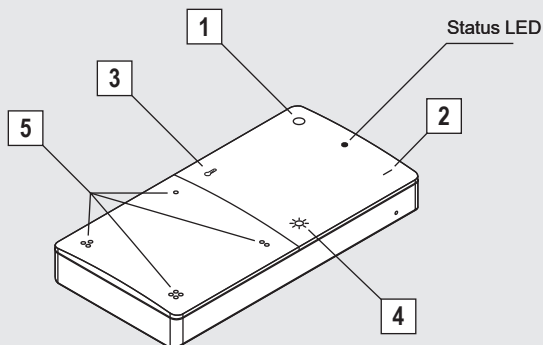
Press and hold the button on the receiver for approx. **5 seconds**.



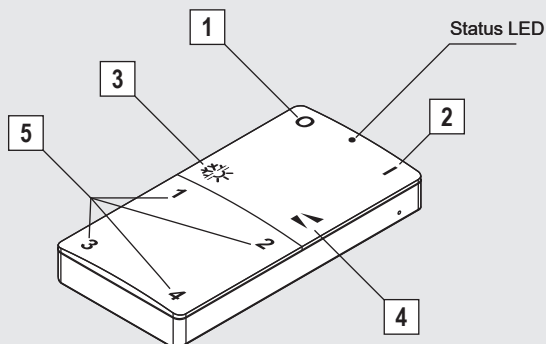
General / Direct connection		
Error	Cause	Solution
Remote control and receiver cannot be connected.	Distance between receiver and remote control too great.	Reduce the distance to max. 15 cm.
	Programming procedure not carried out correctly.	First press the button on the remote control for the lighting group you want to program (1 ... 4) and then press the ON button until the LED lights up green (approx. 10 seconds). Do not release the button in between!
	Remote control lighting group is already connected.	Select another lighting group on the remote control.
	Sources of interference are preventing the connection.	Increase the distance between receivers and possible sources of interference.
		Remove metal objects between the remote control and receiver.
	If necessary, change the position of the remote control or receiver.	
Light does not react.	Remote control battery is too low.	Replace the remote control battery. Battery type: CR2032 3V
	Sources of interference between receiver and remote control.	Remove potential sources of interference.
	Wrong lighting group selected.	Select the luminaire group on the remote control that has been programmed.
The light color of an Emotion luminaire cannot be changed.	The DIP switch on the receiver is in the wrong position.	Change the position of the DIP switch to Emotion.
The wrong luminaire group is activated during operation	Remote control taught to another channel.	Delete the channel on the remote control, then reprogram.
	LEDs connected to wrong output.	Check the wiring on the receiver.



Connection with ZigBee Bridge (Smart Home)		
Error	Cause	Solution
Receiver is not found in the app.	Distance to the ZigBee Bridge is too high.	Reduce the distance between the receiver and the ZigBee Bridge.
	Receiver has not been reset.	Press the button on the receiver for approx. 5 seconds. If the connected LEDs light up, the reset is indicated by the LEDs flashing.
	Receiver has already been recognized as a lamp.	Search for the corresponding lamp in the app
Remote control is not found in the app.	The ZigBee app does not give any feedback to the remote control.	The remote control has been recognized when the status LED lights up green once
	The remote control is not in teach-in mode.	Press the OFF button until the status LED starts flashing red and then carry out the search again.
	Fault between receiver and remote control	Reset the receiver, set the remote control to teach-in mode and carry out the search again.
Remote control and receiver cannot be connected.	Distance between receiver and remote control too great.	Reduce the distance to max. 15 cm.
	Teach-in procedure not carried out correctly.	First press the button on the remote control for the lighting group you want to program (1 ... 4) and then press the ON button until the LED lights up green (approx. 10 seconds). Do not release the button in between!
	Remote control light group is already connected.	Select another lighting group on the remote control.
	Sources of interference prevent the connection.	Increase the distance between receivers and possible sources of interference. Remove metal objects between the remote control and receiver. If necessary, change the position of the remote control or receiver.
Light does not respond (remote control).	Receiver and remote control are not connected.	Connect the receiver and remote control.
	Remote control battery is too low.	Replace the remote control battery. Battery type: CR2032 3V.

Light does not respond (remote control).	Sources of interference between receiver and remote control.	Remove potential sources of interference.
	Incorrect luminaire group selected.	Select the luminaire group on the remote control that has been taught.
	Lamp has been deleted in the app.	Carry out the search in the app again and then connect the receiver to the remote control.
Luminaire does not respond (ZigBee app).	No reception to the Zigbee Bridge.	Make sure that the end device and receiver are connected to the ZigBee Bridge via WLAN.
	Wrong lamp selected.	Select the correct lamp in the app.
	Receiver not recognized as a lamp in the app.	Carry out the search in the app again.
	Lamp has been deleted in the app.	
The luminaires can be controlled via the remote control, but the app does not show any changes.	The remote control was not recognized by the app.	Set the remote control to teach-in mode and carry out the luminaire search again in the app. Then connect the receiver to the remote control.
The light color of an Emotion luminaire cannot be changed	The DIP switch on the receiver is in the wrong position	Change the position of the DIP switch to Emotion.
The wrong luminaire group is activated during operation.	Remote control taught to another channel	Delete the channel on the remote control, then reprogram.
	LEDs connected to wrong output.	Check the wiring on the receiver.



Variant



Button		Function	Short press	Long press
1	O	Selected group OFF	OFF	-
2	I	Selected group ON	ON	-
3		Change color temperature	Gradual color change in x steps	Stepless color change
4		Dimming	Dimming in x steps	Stepless dimming
5	1 2 3 4	Select luminaire group	<i>Select group</i>	-