# HORMANN FCT 10-1 BiSecur Radio Code Switch Instruction Manual



Contents



## HORMANN FCT 10-1 BiSecur Radio Code Switch


## Product Information

The Radio code switch FCT 10-1 BiSecur is a product designed for fitting and operating garage doors. It is equipped with a radio code system that allows for secure access to the garage. The product comes with a user manual that provides detailed instructions for installation and usage.

Dear Customer,
We thank you for choosing a quality product from our company.

### About these instructions

- Read through all of the instructions carefully, as they contain important information about the product. Pay attention to and follow the instructions provided particularly the safety instructions and warnings.
- Further information about handling the radio code switch can be found on the Internet at **www.hoermann.com**
- Please keep these instructions in a safe place and make sure that they are available to all users at all times.

## Safety instructions

### Intended use

The radio code switch FCT 10-1 BiSecur is a unidirectional transmitter for operators and their accessories. It can be operated via BiSecur radio and the fixed code 868 MHz. Other types of applications are prohibited. The manufacturer is not liable for damage caused by improper use or incorrect operation.

### Safety instructions for operation

**WARNING**

The danger of injury during door travel
Persons may be injured by door travel if the radio code switch is actuated.

- Make sure that radio code switches are kept away from children and can only be used by people who have

been instructed on how the remote-control door system functions!

- If the door has only one safety device, only operate the radio code switch if you are within sight of the door!
- Only drive or pass through remote control door systems if the door is in the Open end-of-travel position!
- Never stand in the door’s area of travel.

**CAUTION**

The danger of injuries due to unintended door travel

- See the warning in Section 11

**ATTENTION:** Functional impairment caused by effects of the environment Non-compliance with these instructions can impair function!Permissible ambient temperature: -20 °C to +50 °C

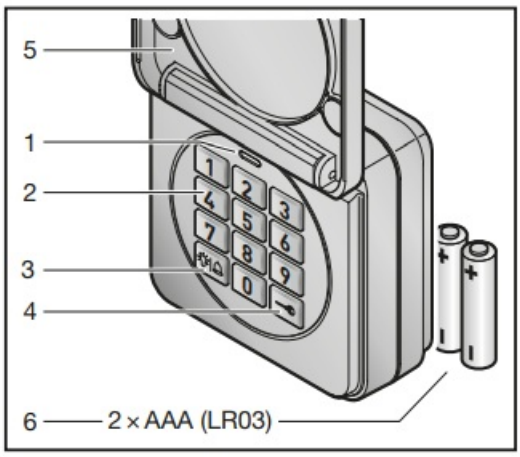
**NOTES:**

- If there is no separate garage entrance, perform all programming changes and extensions of radio systems while standing in the garage.
- After programming or extending the radio system, check the functions.
- Only use original components when putting the radio system into service or extending it.
- Local conditions may affect the range of the radio system.
- When used at the same time, GSM 900 mobile phones can affect the range.

## Scope of delivery

- Radio code switch FCT 10-1 BiSecur
- 2 × 1.5 V battery, type: AAA (LR03), alkali-manganese
- Fixing material
- Operating instructions

## Product description

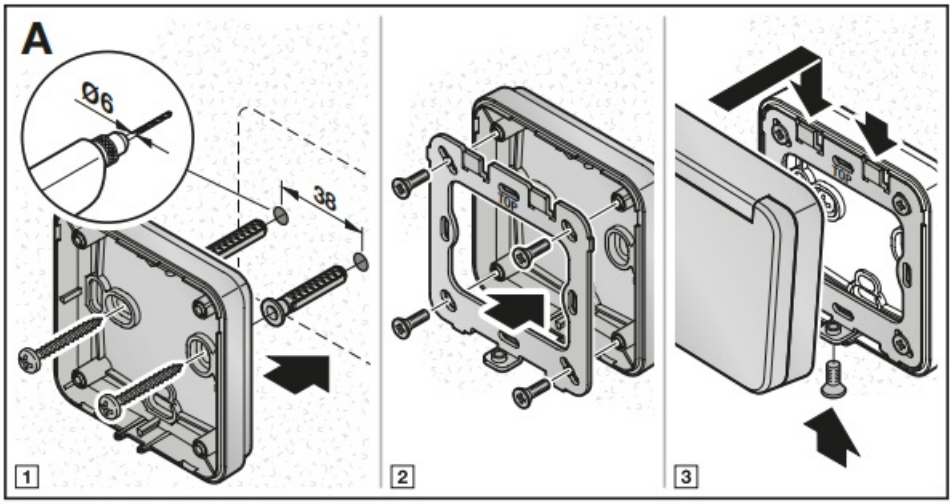


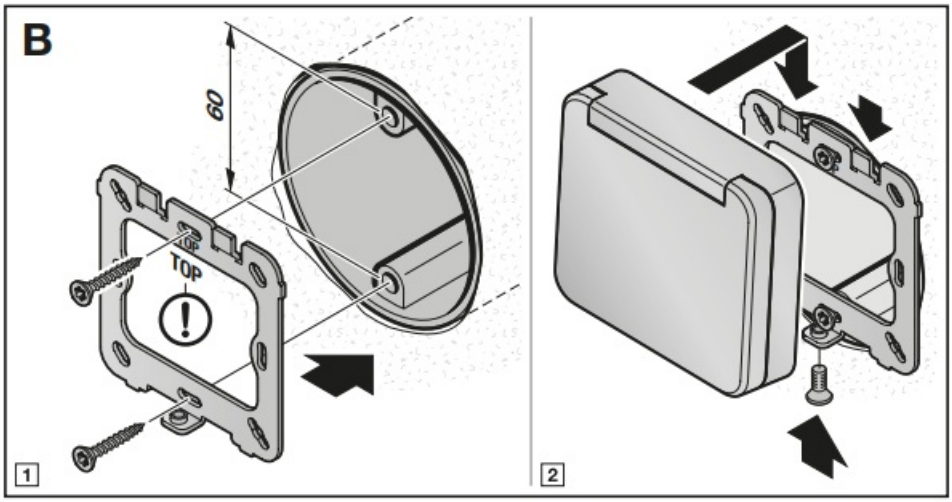

- LED, bi-colour
- Numerical keys

- Bell button / light button
- Key switch
- Cover
- Batteries

## Fitting

**NOTE:**
Before fitting the radio code switch, make sure that the radio code can be received at the desired location. Direct fitting on metal will affect the range. In this case, fit it at a distance of 2 – 3 cm.

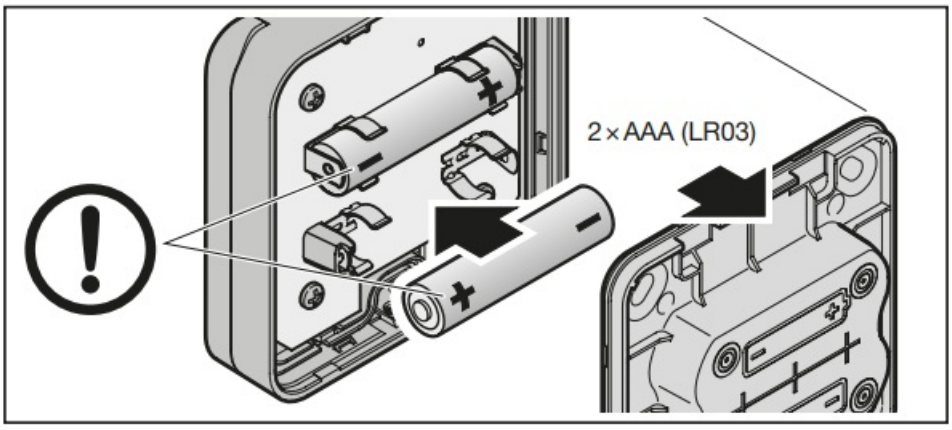



## Initial start-up

The radio code switch FCT 10-1 BiSecur is ready for operation after the batteries have been inserted.

**Inserting the batteries**
2 × 1.5 V battery, type: AAA (LR03), alkali-manganese




**WARNING:** Risk of explosion due to incorrect battery type
There is the risk of explosion if the batteries are replaced with an incorrect battery type.

- Only use the recommended battery type.

**ATTENTION:** Destruction of the radio code switch due to leaking batteries Batteries can leak and destroy the radio code switch.

- Remove the batteries from the radio code switch if it is out of use for a long period.

## Operation

Each programmed personal code is assigned to a radio code. Press the buttons of the personal code whose radio code you want to transmit, plus the key switch.

- The LED is illuminated blue for 2 seconds.
- The radio code is transmitted and the LED flashes quickly in blue.

**NOTES:**

- • Before entering a valid access code, any number of numerical keys can be pressed, so that on entering the access code in the company of another person, there is no risk of that person being able to take note of your code. Only the last four to six (depending on the access code) numerical keys pressed before pressing the key switch will be used as the access code.
- • If the batteries are almost empty, the LED flashes red twice
  - **a.** after a button has been pressed.
    - The batteries should be replaced soon. a. and the radio code is not transmitted.
    - The batteries must be replaced immediately.

## Programming the access code

**NOTE:**
After you have gone through the individual steps to program the access code, the LED will be illuminated in blue or red and you will hear signal tones. These displays and tones vary according to the function. Please see section 14 for an explanation.

**First access code**

**NOTICE:**

- The radio code switch will go back to normal operation if you take longer than 5 seconds to enter each of the individual numbers.
- A personal code that only consists of the number 0 cannot be programmed.

1. Open the cover or press a button to illuminate the keypad.
2. Press the key switch.
3. Press numerical key 1 for the first memory space
4. Press the key switch.
5. Enter a 4 to 6-digit personal code.
6. Press the key switch.
7. Enter the personal code again.
8. Press the key switch.

Programming is now finished and the radio code switch is in normal operation.

**NOTE**
If you enter a different personal code in step 7, programming will be aborted and the radio code switch will go back to normal operation.

**The second to tenth access codes**

- Further access codes are programmed as described in section 8.1. In step 3, select the numerical key for the desired memory space rather than numerical key 1.
- Memory spaces 1 to 9 are assigned to the corresponding numerical keys; memory space 10 is assigned to numerical key 0.

**NOTICE**

- Programming will be aborted if a memory space is selected that already has a personal code.
- Programming will be aborted if a personal code is entered that has already been assigned to a memory space.

**Changing an access code**

**NOTES**

- After you have gone through the individual steps to change the access code, the LED will be illuminated in blue or red and you will hear signal tones. These displays and tones vary according to the function. Please see section 14 for an explanation.
- The radio code switch will go back to normal operation if you take longer than 5 seconds to enter each of the individual numbers.
- A personal code that only consists of the number 0 cannot be programmed.

1. Open the cover or press a button to illuminate the keypad.
2. Press the key switch.
3. Enter the personal code you would like to change.
4. Press the key switch.
5. Enter a new 4 to 6-digit personal code.
6. Press the key switch.
7. Enter the changed personal code again.
8. Press the key switch.

   The change has now been made and the radio code switch is in normal operation.

**NOTE:** If you enter a different or existing personal code in step 7, the change will not be made and the radio code switch will go back to normal operation.

**Normal operation**

Information on the learning behavior of inherited/copied radio codes
If you have inherited/copied the radio code of a personal code from another hand transmitter and are using it for the first time, proceed as follows depending on your product:

Garage door operator series 4, roller garage door operator series 2, receiver ESE BS HCP

- After entering the personal code, press and hold the key button until the LED flashes alternately in red and blue and the desired function is performed.
    - After entering the personal code, press the key button a second time.

**Sending a radio code via a personal code**

**NOTES:**

- After you have gone through the individual steps to send an access code, the LED will be illuminated in blue or red and you will hear signal tones. These displays and tones vary according to the function. Please see section 14 for an explanation.
- The radio code switch will go back to normal operation if you take longer than 5 seconds to enter each of the individual numbers.

1. Open the cover or press a button to illuminate the keypad.
2. Enter a valid personal code.
3. Press the key switch; the radio code is sent.

**Retransmission**
If a radio code is sent after a personal code has been entered (see section 10.1), it can be sent again by pressing a numerical key or the key switch within 5 seconds after sending.
The retransmission function is canceled if the bell button / light button is pressed.

**Transmitting via the bell button / light button**
A bell or courtyard light can be directly operated, i.e. without having to enter an access code, by pressing the bell button / light button.

1. Open the cover or press a button to illuminate the keypad.
2. Press the bell button / light button.

**NOTE:** The radio code is transmitted by the radio code switch as long as the bell button /light button is pressed but for a maximum of 3 seconds.

**Blocking after several incorrect personal codes are entered**
The radio code switch is blocked for 30 seconds if a personal code is entered incorrectly ten times. The radio code switch then switches to normal operation.

## Teaching in and inheriting a radio code

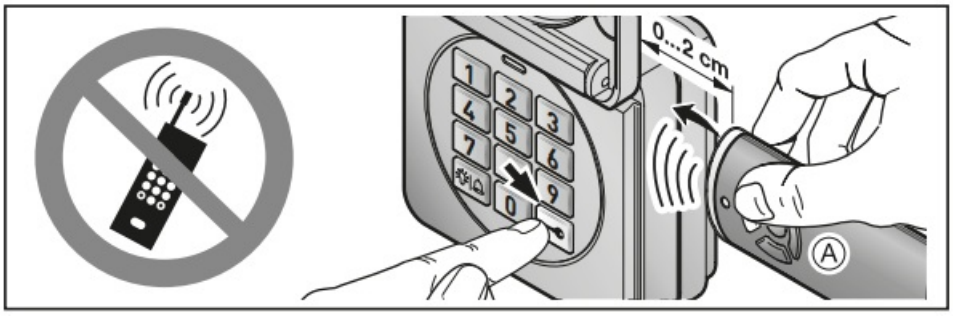
**CAUTION:** Danger of injuries due to unintended door travel
Unintended door travel may occur while teaching in the radio code.

- Make sure no persons or objects are in the door's area of travel when teaching in the radio system.

**Teaching in a radio code**

**NOTES:**

- After you have gone through the individual steps to teach in an access code, the LED will be illuminated in blue or red and you will hear signal tones. These displays and tones vary according to the function. Please see section 14 for an explanation.
- The radio code switch will go back to normal operation if you take longer than 5 seconds to enter each of the individual numbers.




- Hold the hand transmitter to the right of the radio code switch.
- Press and hold the hand transmitter button whose radio code is to be inherited.
  - The LED is illuminated blue for 2 seconds and then goes out.
  - After 5 seconds, the LED alternates flashing in red and blue.
  - The hand transmitter sends the radio code.
- Open the cover or press a button to illuminate the keypad.
- Enter the personal code for the radio code you would like to change.
- Press and hold the key switch.
  - The LED is illuminated blue for 2 seconds and then goes out.
  - The LED will flash slowly in blue.
  - If the radio code is recognized, the LED flashes quickly in blue.
  - After 2 seconds, the LED goes out.
- Release the button once the radio code has been recognized.

The radio code of the hand transmitter button has been taught. The radio code switch is in normal operation.

**Inheriting/transmitting a radio code**

**NOTE:**
The radio code switch will go back to normal operation if you take longer than 5 seconds to enter each of the individual numbers.

1. Open the cover or press a button to illuminate the keypad.
2. Enter the personal code for the radio code you would like to inherit/transmit.
3. Press and hold the key switch.
    - The radio code is transmitted and the LED is illuminated blue for 2 seconds then goes out.
    - After 5 seconds, the LED flashes alternately red and blue and brief signal tones are emitted. The radio code switch transmits the device information.
    - The radio code is transmitted.

**NOTE:**
You have 15 seconds to inherit/transmit the code. The process must be repeated if the radio code is not successfully inherited/transmitted within this time.

Release the key switch once the radio code has been recognized.
The radio code switch is in normal operation.

**Inheriting the radio code from the bell button / light button**

1. Open the cover or press a button to illuminate the keypad.
2. Press and hold the bell button / light button.
    - The radio code is transmitted and the LED is illuminated blue for 2 seconds then goes out.
    - After 5 seconds, the LED flashes alternately red and blue, and brief signal tones are emitted. The radio code switch transmits the device information.
    - The radio code is transmitted.

**NOTE:**
You have 15 seconds to inherit/transmit the code. The process must be repeated if the radio code is not successfully inherited/transmitted within this time.

- Release the bell button / light button as soon as the radio code is recognized.

The radio code switch is in normal operation.

**Mixed operation / BiSecur and fixed code 868 MHz**
If the BiSecur radio has been set, mixed operation is possible, i.e. existing hand transmitters with an 868 MHz fixed code (grey hand transmitters with blue buttons or the device designation HSD2-868) can be taught in from the radio code switch.

## Setting options

**NOTE:**

With the following settings, the LED is illuminated in blue or red, and signal tones are emitted. These displays and tones vary according to the function. Please see section 14 for an explanation.

**Activating or deactivating retransmission**
Retransmission can be deactivated to operate the radio code switch in combination with an entrance door (see section 10.1.1).

**NOTE:**
The radio code switch will go back to normal operation if you take longer than 5 seconds to enter each of the individual numbers.

1. Open the cover or press a button to illuminate the keypad.
2. Simultaneously press and hold the key switch and the numerical key 0.
3. Change mode is active and the set function is displayed by a flashing LED.
4. Release both buttons.
5. Functions can be set using numerical keys 0 and 1.
    - **Numerical key 1**: activate retransmission
    - **Numerical key 0**: deactivate retransmission
6. After you have pressed the desired numerical key, the LED will display the selected function through the frequency of the flashing.
7. Press the key switch to save the setting.

**Signal tone volume**

**NOTE:** The radio code switch will go back to normal operation if you take longer than 5 seconds to enter each of the individual numbers.

1. Open the cover or press a button to illuminate the keypad.
2. Simultaneously press and hold the bell button / light button and numerical key 0.
3. Change mode is active as soon as the LED flashes. 4. Release both buttons.
4. The signal tone volume can be set using numerical keys 0 to 9.
    - Numerical key 0: no acoustic signal
    - Numerical keys 1 to 9: quiet to loud
5. After you press the desired key, the system will emit a tone in the selected volume.
6. Press the key switch to save the setting.

**Recoding a memory space**

**NOTE:** The radio code switch will go back to normal operation if you take longer than 5 seconds to enter each of the individual numbers.

1. Open the cover or press a button to illuminate the keypad.
2. Enter a valid personal code.
3. Press the key switch and immediately thereafter press and hold the bell button / light button.
    1. A long signal tone is emitted.
    2. The LED flashes rapidly in blue for 5 seconds.
    3. The LED is illuminated in blue for a prolonged period.

**NOTE:** If one of the two buttons is released before these 5 seconds are over, a new radio code will not be generated.

**Release both buttons.**
Recoding is now complete and the radio code switch is in normal operation.

**Reset**

**NOTE:**
After you have gone through the individual steps for a device reset, the LED will be illuminated in blue or red and you will hear signal tones. These displays and tones vary according to the function. Please see section 14 for an explanation. All radio codes are newly assigned by the following steps and the radio code switch is reset to the delivery condition.

1. Disassemble the top part of the radio code switch housing and remove the battery for 10 seconds.
2. Press and hold the numerical key 0.
3. Insert the battery.
    - The LED slowly flashes in blue for 4 seconds.
    - The LED flashes rapidly in blue for 2 seconds.
    - The LED is illuminated in blue for a prolonged period.
4. Release numerical key 0.

   All radio codes have been newly assigned.
5. Assemble the housing for the radio code switch.

**NOTE:**
If numerical key 0 is released prematurely, no new radio codes are assigned.

**Setting the fixed code 868 MHz**
If immediately following the device reset, the numerical key 0 remains pressed, the fixed code 868 MHz will be activated.

- The LED slowly flashes in red for 4 seconds.
- The LED flashes rapidly in red for 2 seconds.
- The LED is illuminated in red for a prolonged period. All radio codes have been newly assigned.

**NOTE:**

- If numerical key 0 is released prematurely, the BiSecur radio will remain active.
- Further information about operating the radio code switch with the fixed code 868 MHz can be found on the Internet at www.hoermann.com

**LED display/signal tones**

**Blue (BU)**

| Status | Signal tone | Function |
|---|---|---|
| Illuminated briefly | Brief signal tone | Acknowledgement of a pressed button |
| Illuminated for a prolonged peri od | Long signal tone | Acknowledgement of a correct personal co de |
| | | Saving an entry |
| | | Switch to normal operation |
| | | End of the blocking time after several incor rect personal codes have been entered |
| Illuminated 2 s, Flashes slowly, Flashes quickly 2 s | Long signal tone, Brief signal to ne, Brief signal tone | A valid radio code was detected during the teach-in procedure |

| | | |
|---|---|---|
| Flashes slowly 4 s, Flashes qui ckly 2 s, Illuminated for a prolon ged period | Brief signal tones, Brief signal t ones, Long signal tone | Device reset is being performed or completed |
| Flashes quickly | Brief signal tones | A radio code is being transmitted |
| | Long signal tone | Change mode is active |
| Flashes slowly | | Setting for retransmission: active |
| Flashes quickly | | Setting to send again: inactive |

**Red (RD)**

| Status | Signal tone | Function |
|---|---|---|
| Flashes 2 × | | The batteries are almost empty |
| Flashes 3× | Brief signal tones | The entered personal code is incorrect |
| | | When programming an access code:<br>• Memory space is occupied<br>• This personal code already exists |
| | | No radio code was generated when the me mory space was recoded. |

**Blue (BU) and Red (RD)**

| Status | Signal tone | Function |
|---|---|---|
| Flashing alternately | Brief signal tones | The radio code switch is in inherit/transmit mode |

**Cleaning**

**ATTENTION**

- Damage to the radio code switch through improper cleaning
- Cleaning the radio code switch with unsuitable cleaning agents can damage the housing, as well as the buttons.
    - Clean the radio code switch with a clean, damp cloth.

**Disposal**
Electrical and electronic devices, as well as batteries, must not be disposed of in household rubbish but must be returned to the appropriate recycling facilities.

## Technical data

- Type Radio code switch FCT 10-1 BiSecur
- Frequency 868 MHz
- **Power supply 2 × 1.5 V battery, type:** AAA (LR03), alkali-manganese
- **Perm. ambient temperature** -20 °C to +50 °C
- **Max. humidity** 93 %, non-condensing
- **Protection category** IP 44
- **Dimensions** (W × H × D) 80 × 80 × 19 mm (in recessed socket) 80 × 80 × 34 mm (with socket housing)

**EU Declaration of Conformity**

**Manufacturer:** Hörmann KG Verkaufsgesellschaft
**Address:** Upheider Weg 94-98 33803 Steinhagen, Germany

The manufacturer above herewith declares under his sole responsibility that the product
**Equipment/system:** radio code switch

- **Model:** FCT10-1-868-BS
- **Intended use:** Actuating of door operators and accessories
- **Transmission frequency:** 868 MHz
- **Radiant power:** max. 20 mW (EIRP)

Conforms to the respective essential requirements of the directives listed below with intended use, based on its style and type in the version marketed by us:

- **2014/53/EU (RED**) EU Directive for Radio Equipment
- **2015/863/EU (RoHS)** Restriction of the use of certain hazardous substances

**Applied standards and specifications:**

- EN 62368-1:2014 + AC:2015 Product safety (Article 3.1(a) of 2014/53/EU)
- EN 62479:2010 Health (Article 3.1(a) of 2014/53/EU) (According to section 4.2 the product automatically complies with this standard, as the radiant power (EIRP), tested according to ETSI EN 300220-1, is lower than the low power exclusion level Pmax of 20 mW)
- EN 50581:2012 /
- EN IEC 63000:2018 Restriction of the use of certain hazardous substances

- ETSI EN 301489-1 V2.2.0 Electromagnetic compatibility
- ETSI EN 301489-3 V2.1.1 (Article 3.1(b) of 2014/53/EU)
- ETSI EN 300220-1 V3.1.1 Efficient use of the radio spectrum
- ETSI EN 300220-2 V3.1.1 (Article 3.2 of 2014/53/EU)

**Applied standards and specifications**

- **EN 62368-1:**2014 + AC:2015 Product safety (Article 3.1(a) of 2014/53/EU)
- **EN 62479:** 2010 Health (Article 3.1(a) of 2014/53/EU) (According to section 4.2 the product automatically complies with this standard, as the radiant power (EIRP), tested according to ETSI EN 300220-1, is lower than the low power exclusion level Pmax of 20 mW)
- **EN 50581**: 2012 /
- **EN IEC 63000:** 2018 Restriction of the use of certain hazardous substances
- **ETSI EN** 301489-1 V2.2.0 Electromagnetic compatibility
- **ETSI EN** 301489-3 V2.1.1 (Article 3.1(b) of 2014/53/EU)
- **ETSI EN** 300220-1 V3.1.1 Efficient use of the radio spectrum
- **ETSI EN** 300220-2 V3.1.1 (Article 3.2 of 2014/53/EU)

Any modifications made to the product without our approval will invalidate this declaration. Steinhagen, 22.07.2019

- Axel Becker, Management
- TR20A266-A RE / 02.2020

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## Documents / Resources

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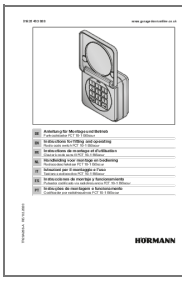
|---|---|
|  | HORMANN FCT 10-1 BiSecur Radio Code Switch [pdf] Instruction Manual<br>FCT 10-1, FCT 10-1 BiSecur Radio Code Switch, BiSecur Radio Code Switch, Radio Code Switch, Code Switch, Switch |