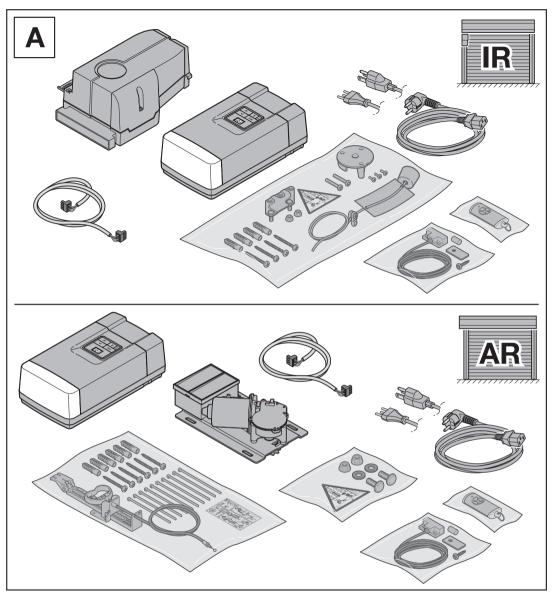
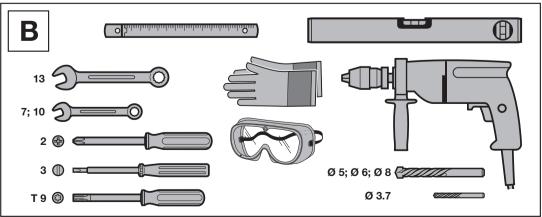


EN

Instructions for fitting, operating and maintenance RollMatic 2 roller garage door operator





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These instructions are **original operating instructions** as outlined in EC Directive 2006/42/EC and are divided into a text and illustrated section. They contain important information on the product, and especially safety instructions and warnings.

Read these instructions carefully and keep in a safe place for later reference.

1 Further applicable documents

The following documents for safe handling and maintenance of the door system are placed at the disposal of the end user:

- These instructions
 The enclosed log book
- The roller garage door instructions
- Additional descriptions:



www.hoermann-docs.com/243510

1.1 Warnings used

⚠ DANGER

Indicates a danger that immediately leads to **death** or **serious injuries**.

△ WARNING

Indicates a danger that can lead to **death** or **serious injuries**.

ATTENTION

Indicates a danger that can lead to $\mbox{\bf damage}$ or $\mbox{\bf destruction}$ of the product.

1.2 **Definitions** used

Hold-open phase

Waiting time for the automatic timer before the door closes from the OPEN end-of-travel position or partial opening.

Automatic timer

After the set hold-open phase and pre-warning phase lapse. the door automatically closes from the OPEN end-of-travel position/partial opening.

Impulse sequence control

The taught-in impulse radio code or a button triggers impulse sequence control. With each actuation, the door is started against the previous direction of travel, or the door run is stopped.

Learning runs

The control learns travel paths and forces that are required to move the door.

Ventilation

During ventilation, the door is lifted slightly to allow air to circulate.

Normal operation

Normal operation is a door run with taught-in travel paths and forces

Reference run

Door run towards the OPEN end-of-travel position at a lower speed in order to set the home position.

Safety reversal / reversing

Door run in the opposite direction when the safety device or power limit is activated.

Reversal limit

The reversal limit is shortly before the CLOSE end-of-travel position. Safety reversal/reversing does not take place within the reversal limit

Slow travel

The area in which the door moves extremely slowly to softly approach the end-of-travel position.

Status

The current position of the door.

Partial opening

Individually adjustable second opening height.

A defined time period within which an action is expected, e.g. menu selection or function activation. If this time period has elapsed without an action, the control automatically switches back.

Door system

Door with operator and control.

Push-and-hold mode

The button must be permanently pressed for a door run. Release the button to stop the door run.

Travel

The distance the door covers from the OPEN end-of-travel position to the CLOSE end-of-travel position.

Pre-warning time

The time between the travel command (impulse) and the start of a door run.

Factory reset

Resetting of the taught-in values to the delivery condition/factory setting.

13 Symbols used



Important note to prevent injury to persons and damage to property



arrangement or activity



Non-permissible arrangement or activity



High exertion of force



Low exertion of force









Power restoration



Factory setting



Use protective gloves



Check for ease of movement



Audible engagement



Internal roller garage door Fitting in or behind the opening



External roller garage door Fitting in front of the openina



Remove and dispose of component or packaging



Operator unlocked



Operator locked



See illustrated section





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7-segment display



Display is illuminated



Display flashes slowly



Display flashes quickly



Decimal flashes

14 Abbreviations used

Colour code for cables, single conductors and components

The colour abbreviations for cable and strand identification and for components conform to the international colour code in accordance with IEC 60757:

WH	White	BK	Black
BN	Brown	BU	Blue
GN	Green	OG	Orange
YE	Yellow	RD/BU	Red/blue

All specified dimensions in the illustrated section are in [mm].

1.5 Article designation used

HSE 4 BiSecur	4-button hand transmitter	
ESE BiSecur	Bi-directional receiver	
IT 1b-1	Internal push button with illuminated impulse button	
IT 3b-1/PB 3	Internal push button with illuminated impulse button, additional buttons for light on/off and lock/unlock control	
EL 101/EL 301	One-way photocell	
HOR 1-HCP	Option relay	
UAP 1-HCP	Universal adapter print	
SLK	LED warning light, yellow	
SKS	Activating kit for closing edge safety device	
HNA 18-4	Emergency battery	

2 Safety instructions

ATTENTION:

For undated references to standards, directives etc., the latest version of the publication applies, including any amendments.

Pay attention to possible dangers in accordance with EN 12604 and EN 12453.

On-site changes may void the CE compliance.

2.1 Intended use

The roller garage door operator with the roller garage door control is intended for the impulse operation of spring/weight balanced roller garage doors and can be used in the private or commercial sector.

Note the manufacturer specifications regarding the door, operator and control. EN 13241 specifies the application for installation, fitting and use.

Only operate the operator and control in dry rooms.

2.2 Non-intended use

Continuous operation is not permitted.

Door systems that are located in a public area and which only have one protective device, such as a power limit, may only be operated under supervision.

2.3 Qualification of the specialist

According to EN 12635, specialists are persons with suitable training, specialist knowledge and practical experience sufficient to correctly and safely fit, test and maintain a door system.

2.4 Safety instructions for fitting, maintenance, repair and dismantling

⚠ DANGER

Compensating springs are under high tension

See warning in section 3.1

⚠ WARNING

Danger of injury due to unexpected door run

Refer to the warning information in sections 11.7 and 12

Only specialists in accordance with EN 12635 may carry out fitting, maintenance, repair and dismantling of the roller garage door, the roller garage door operator and the roller garage door control.

In the event of a failure of the roller garage door operator or the roller garage door control, a specialist must be commissioned immediately for the inspection and repair work.

2.5 Safety instructions for fitting

The specialist carrying out the fitting work must follow the prevailing national workplace safety regulations, those governing the operation of electrical equipment and the national guidelines. Hazards according to EN 13241-1 will be prevented by construction and fitting according to the manufacturer specifications.

After fitting is complete, the specialist must declare conformity in accordance with EN 13241-1 based on the area of application.

⚠ WARNING

Unsuitable fixing material

may result in the control becoming loose.

► The fitter must check whether the supplied plugs and screws are suitable for the intended fitting site. Because the supplied fixing materials are suitable for concrete (≥ B15), but are not officially approved, you may need to use other fixing material.

↑ WARNING

Danger of injury due to unwanted door travel

Incorrect handling of the operator, the control and the control devices may trigger unwanted door travel and result in persons or objects being trapped.



- Fix control devices at a height of at least 1.5 m out of the reach of children
- Fit permanently installed control devices within sight of the door, but away from moving parts.

ATTENTION

Drilling chippings and dust

can lead to malfunctions.

Cover the operator and the control.

2.6 Safety instructions for installation



⚠ DANGER

Contact with the mains voltage presents the danger of a deadly electric shock.

- Before performing work on the system, disconnect the mains plug and the plug of the emergency battery (if applicable). Safeguard the door system against being switched on again without authorisation.
- ► Electrical connections may only be made by a qualified
- Make sure that a damaged mains connection cable is exchanged using the same type.
- On-site electrical installations must conform to the applicable safety regulations (230/240 V AC, 50/60 Hz).

ATTENTION



External voltage on the connecting terminals External voltage (230/240 V AC) on the connecting terminals of the control will destroy the electronics.

Connection cables and supply cables laid together can result in malfunctions.

 Duct the operator's or control's connection cables (24 V DC) separate from the supply lines (230 / 240 V AC).

2.7 Safety instructions for initial start-up and operation

⚠ WARNING

Danger of injury due to incorrectly selected door type

▶ See warning in section 4.1

Danger of injury due to door run

► See warning in section 11

Danger of crushing in the side guide

▶ See warning in section 11

Overload of the cord knob or emergency release

See warning in section 11

Danger of injury due to a fast-closing door

See warning in section 11.1.1

2.8 Safety instructions for using the hand transmitter

⚠ WARNING

Risk of injury during intended or unintended door travel

- ▶ See warning in section 9
- Risk of explosion due to incorrect battery type
- See warning in section 9.2

Danger to life due to swallowing battery

▶ See warning in section 9.2

2.9 Safety equipment

meets EN ISO 13849-1, cat. 2, PL "c" and was constructed and tested accordingly:

Internal power limit

Safety equipment

$oldsymbol{\Delta}$ warning

Danger of injuries due to faulty safety equipment

See warning in section 8.2

3 Fitting

3.1 Testing the door system

⚠ DANGER

Compensating springs are under high tension

Serious injuries may occur while adjusting or loosening the compensating springs!

- Never try to replace, adjust, repair or reposition the compensating springs for the counterbalance of the door or the spring mountings yourself. If necessary, only have a specialist conduct work!
- Check the entire door system (door bearings, joints, cables, springs and fastenings) for wear and possible damage, rust, corrosion or cracks.

A malfunction in the door system or incorrectly aligned doors can cause serious injuries!

Do not use the door system if repair or adjustment work must be conducted!

The roller garage door operator is not designed for the operation of sluggish doors.

The door must be in a flawless mechanical condition, as well as correctly balanced, so that it can be easily operated by hand (EN 12604).

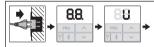
Observe the door instructions.

3.2 Fitting the operator and control

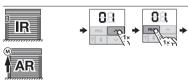
The operator and control are fitted during mechanical fitting of the roller garage door.

- Observe the door instructions.
- ▶ Note the safety instructions in section 2.5

3.3 Rolling up the door curtain



- Plug in the mains plug. The control light remains illuminated for 120 seconds.
 - On the display
 - **88** illuminates for 1 second,
 - is then illuminated continuously.
- Press the or button and select the available door type.

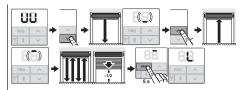


Internal roller garage door or external roller garage door with operator on the left



External roller garage door with operator on the right

- 3. Press the button PRG
 - **BB** illuminates.



- Press and hold the or we button.
 The door curtain is slowly raised or lowered and can thus be rolled up and threaded into the side guides.
- 5. After fixing the door curtain, check that it runs correctly in the side guides.
- 6. Move the door to the half-open position.
- 7. To end, press the PRG button for 5 seconds.
 - L is illuminated.

NOTE

The control can be reset to the untaught, unassembled state **(UU)** in menu **99**.

3.4 Fit the OPEN end-of-travel position

▶ Figure 2 - 2.3

4 Initial start-up

Before initial start-up, read and follow the safety instructions in sections 2.7 and 2.9.

During learning runs, the operator is adjusted to the door. The travel distance, the required force for opening and closing runs and the connected safety devices are taught in automatically and saved in the control in a power failure-proof manner. The data is only valid for this door.

NOTES

- The hand transmitter must be ready for operation, see figure 14.
- While the travel is being taught in, the operator moves in slow travel.

Lighting:

If the operator is not taught in, the control light remains illuminated for 120 seconds after electrical supply.

4.1 Teaching in the operator

⚠ WARNING

Danger of injury due to incorrectly selected door type

Door system malfunctions may cause injuries.

Only choose the menu of the door system you have.

To teach in the operator



- 1. Press the button ^
 - The door will open and briefly stop in the OPEN end-of-travel position.
 - L-flashes.

- The door automatically completes 3 cycles (OPEN and CLOSE door runs).
 - L flashes in the CLOSE direction.
 - L flashes in the OPEN direction.

The travel and required forces are taught in.

The light flashes during the learning runs.

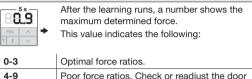
The door will stop in the OPEN end-of-travel position.

To abort a learning run:

Press one of the buttons ^, V, PRG or an external control element with impulse function.

On the display a ${\bf U}$ is illuminated and the operator has not been taught in.

Display of taught-in forces



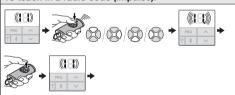
The control automatically switches to the menu for teaching in the hand transmitters.

Each hand transmitter button is assigned a radio code.

11 flashes on the display.

To teach in a radio code (impulse):

system.



2. Press and hold the hand transmitter button from which you want to transmit the radio code.

Hand transmitter:

- The LED is illuminated blue for 2 seconds and then goes out.
- After 5 seconds, the LED alternates flashing in red and blue. The radio code is transmitted.

Control

If the receiver detects a valid radio code, **11.** flashes quickly on the display.

3. Release the hand transmitter button.

The hand transmitter has been taught in and is ready for operation.

11 flashes on the display.

Further hand transmitters can be taught in within 25 seconds. (Radio timeout)

To teach in further radio codes (impulse):

► Repeat steps 2+3.

To cancel radio code teach-in:

Press the button PRG

To teach in further functions on the hand transmitter:

▶ Press the ↑ button and select:

Menu 12	Lighting
Menu 13	Partial opening
Menu 14	Choosing OPEN direction
Menu 15	Choosing CLOSE direction
Menu 16	Ventilation

 Press the PRG button and switch to programming mode.

Correspondingly, 12, 13, 14, 15 or 16 flashes.

Perform steps 2+3 as for the impulse radio code.

To teach in no further hand transmitters:



Press the button PRG.
 The control switches to programming mode.
 or

No input for 25 seconds (radio timeout).

11, 12, 13, 14, 15 or 16 is illuminated depending on which radio code was last taught in.

To complete initial start-up:



Press the buttons to select the menu 00.

Press the button PRG.
 The control switches to operation mode.
 Or

No input for 60 seconds (timeout).

The taught-in safety devices are active and activated in the menus

The operator is ready for operation.

Radio timeout:

If the timeout (25 seconds) is exceeded while teaching in the radio code, the control automatically switches to programming mode. To teach in a hand transmitter, the corresponding menu must be selected manually.

▶ Section 7

5 Programming additional menus

NOTES

- Menu 00 is the 1st visible menu in programming mode
- Menu 00 is also used to exit the programming mode.
- Menus 01 02 are only accessible during initial start-up.
- After initial start-up, only the available menus 10 38 are
- A decimal point next to the menu number indicates an active menu.

To switch to programming mode:



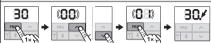
Press the PRG button until the 00 display is illuminated.

To activate the menu with individual functions:



Press the PRG button 1 x. The menu is active immediately. The decimal point next to the menu number is illuminated.

To activate a menu with selectable parameters:



1. Press the PRG button 1 x.

The active parameter flashes.

Select the desired parameter with the huttons.

Press the PRG button 1 x.
 The parameter is immediately active.
 The menu number and the decimal point are illuminated.

To exit programming mode:



- 1. Press the / / buttons to select the menu 00.
- 2. Press the button PRG

or

 No input for 60 seconds (timeout).
 All inputs are saved. The operator switches to operation mode.

5.1 Menu 10: Learning runs

▶ Please observe the notes from section 4.

Learning runs are necessary:

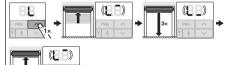
- after service or maintenance work
- if safety equipment, e.g. photocells or safety contact strips are retrofitted
- · in case of changes to the door

Note on learning runs in the delivery condition:

During initial start-up (section 4), all learning runs are performed automatically.



- 1. Press the PRG button until the 00 display is illuminated.
- 2. Press the ^/ v buttons to select the menu 10.
- 3. Press the PRG button for 5 seconds.
 - L is illuminated,



- 4. Press the ^ button.
 - The door will open and briefly stop in the OPEN end-of-travel position.

L-flashes.

- The door automatically completes 3 cycles (OPEN and CLOSE door runs).
 - L flashes in the CLOSE direction.
 - L flashes in the OPEN direction.

The travel and required forces are taught in.

The light flashes during the learning runs.

 The door will stop in the OPEN end-of-travel position. The light remains illuminated and goes out after approx. 120 seconds.

Display of taught-in forces After the learning runs, a number shows the maximum determined force. This value indicates the following: O-3 Optimal force ratios. Poor force ratios. Check or readjust the door system.

6 Connecting accessories

- ▶ Note the safety instructions in section 2.6
- ▶ Figure 3 13

6.1 Connecting terminals

All connecting terminals can have multiple assignments:

- Minimum size: 1 × 0.5 mm²
- Maximum size: 1 x 2.5 mm²

6.2 Accessories on the circuit board

- All accessories may put a maximum load of 350 mA on the control. See the figures for component power consumption.
- Series 1 accessories must be connected via the HCP adapter HAP1.
- The BUS jack enables the connection of accessories with special functions.
- The stop or static current circuit input is **not** a monitored connection according to EN ISO 13849 PLc.

6.2.1 Button with impulse function

► Figure 3

Terminal assignment:

23	Signal channel 2	Partial opening
5	+24 V DC	
21	Signal channel 1	Impulse
20	0 V	

6.3 Acoustic anti-lift kit

► Figure 13 + 13.1

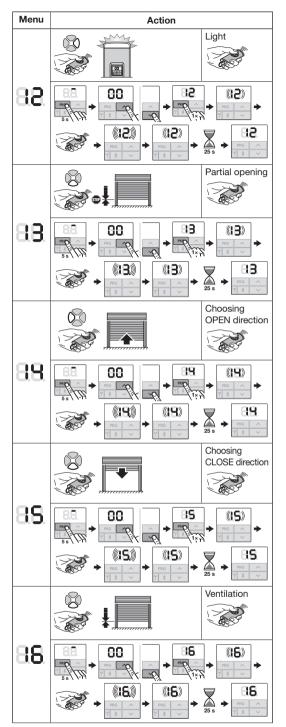
The attempt to push open the closed door can be detected via a magnetic switch fixed to the door.

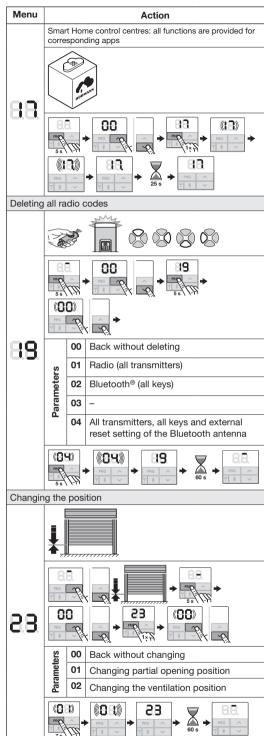
The magnetic switch activates a connected signal transmitter (24 V max. 100 mA) for max. 3 minutes.

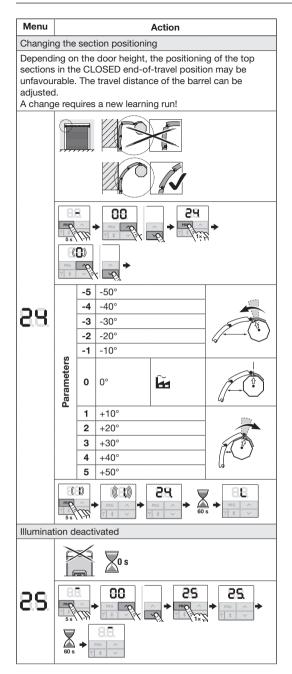
7 Menu and programming overview

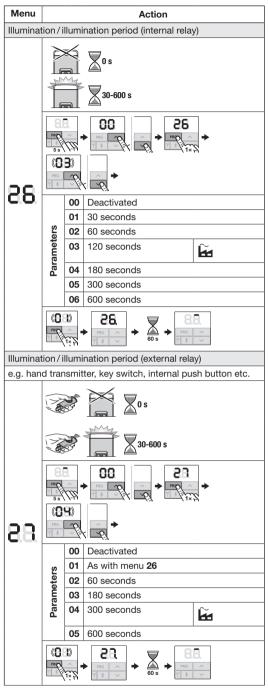
The listed factory settings apply to roller garage doors.

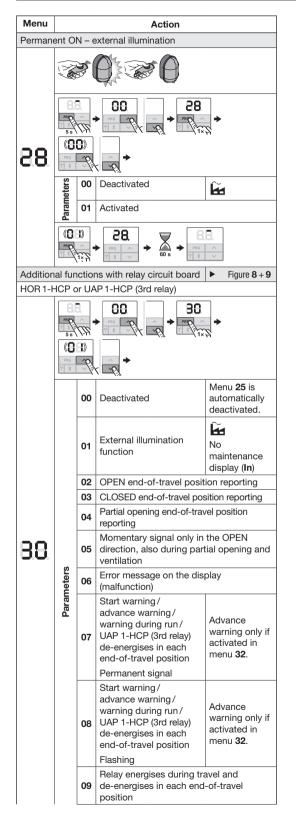
The listed	d factory settings 🗺 apply to roller garage doors	-	
Menu	Action		
88.	Open / exit programming mode		
Selectin	g a door type		
	settings such as speed, soft stop, reversing ur of the safety devices, reversal limit etc. are		
88			
	71 × 71 × 71 × 71 × 71 × 71 × 71 × 71 ×		
88	AR		
0.0.	02 + 02 + 03 + 03 + 03 + 03 + 03 + 03 +		
Learning	g runs		
After se	rvice/maintenance or changes to the door system.		
88	88 00 + 10 + 10 + 10 + 10 + 10 + 10 + 10	•	
	(CD) + 0.8 + PRG A + P		
feaching	g-in hand transmitter Section 9)	
	Impulse		
88	88 00 H1 (11) +	_	
	+ ((1 1)) 1 1 1 1		



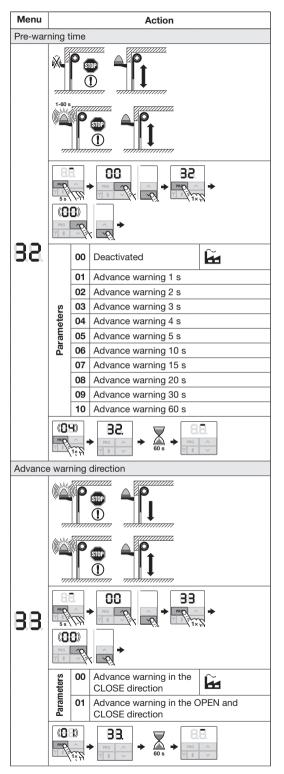


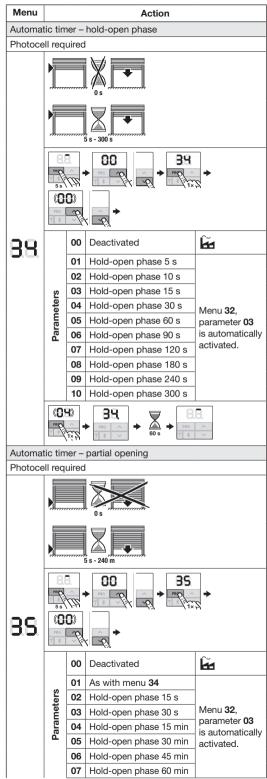


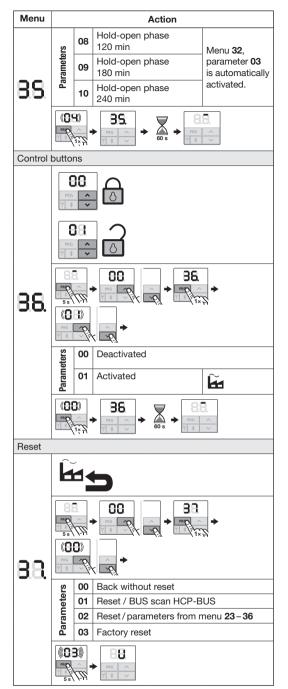




Menu	Action				
	Maintenance interval signal (display In				
	flashes 3 × in each end-of		flashes 3 × in each end-of		
		11	As with menu 26	Menu 25 is automatically deactivated. No mainte- nance display (In)	
	(04) + 30 + 88 123 + 20				
Internal	relay	func	tions	► Figure 11	
	PRO 5 s	B))	00 + 31	*	
	PRG	P	*		
		00	Deactivated	Menu 25 is automatically deactivated.	
		01	External illumination function	No mainte- nance display (In)	
		02	OPEN end-of-travel posit	ion reporting	
		03	CLOSED end-of-travel pos	sition reporting	
		04	Partial opening end-of-travel position		
			reporting Memortany signal only in	the OPEN	
	05		Momentary signal only in the OPEN direction, also during partial opening and ventilation		
	06 Error message on the display (malfunction)			play	
88	Parameters	07	Start warning / advance warning / warning during run / UAP 1-HCP (3rd relay) de-energises in each end-of-travel position	Advance warning only if activated in menu 32 .	
	۵		Permanent signal		
	de-energises in each end-of-travel position warning		advance warning/ warning during run/ UAP 1-HCP (3rd relay) de-energises in each end-of-travel position	Advance warning only if activated in menu 32.	
			Relay energises during tra de-energises in each end		
			al (display In		
		11	As with menu 26	Menu 25 is automatically deactivated. No mainte- nance display (In)	
	PROP	(1)	B	8.	



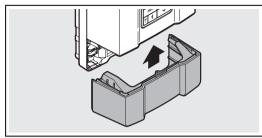




8 Final work

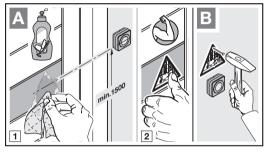
Upon completion of all required steps for initial start-up:

Close the covers.



8.1 Fixing the warning sign

 Fix the crushing warning sign in a prominent, cleaned and degreased place.



8.2 Function check

⚠ WARNING

There is a danger of injuries due to faulty safety equipment.

 After the learning runs, a specialist must check the function(s) of the safety equipment.

Only then is the system ready for operation.

To check the safety reversal:



- Stop the door with both hands while it is closing. The door system must stop and initiate the safety reversal.
- Stop the door with both hands while it is **opening**.
 The door system must switch off and take the load off.
- 3. Position a test object with a height of approx. 50 mm in the centre of the opening and close the door. The door system must stop and initiate the safety reversal as soon as it reaches the obstacle.
- In the event of a failure of the safety reversal, a specialist must be commissioned immediately for the inspection or repair work.

9 Hand transmitter HSE 4 BiSecur

⚠ WARNING

Risk of injury during intended or unintended door travel

- Make sure that hand transmitters are kept away from children and can only be used by people who have been instructed on how the remote-controlled door system functions!
- ► If the door has only one safety device, only operate the hand transmitter if you are within sight of the door!
- Drive or walk through the door openings only when the door is in the OPEN end-of-travel position!
- Never stand in the door's area of travel.
- ▶ Note that accidentally pressing a button on the hand transmitter can result in a door run.
- Make sure that no persons or objects are in the door's area of travel when teaching in the radio system.

If you start up, enhance or change the radio system:

- Only possible if the operator is at rest.
- Perform a function check.
- Only use original parts.
- Local conditions may affect the range of the radio system.

If there is no separate garage entrance, perform all programming changes and extensions of radio systems while standing in the garage.

9.1 Product description

► Figure 14

LED, bi-colour 2 Hand transmitter buttons

3 Battery 4 Battery insulation foil

After removing the battery insulation foil, the hand transmitter is ready for operation.

9.2 Changing the battery

Figure 14.1

⚠ WARNING

Risk of explosion due to incorrect battery type

- ► Use *only* this battery type: 1 × 3 V battery, type: CR2032, lithium
- Remove the battery from the hand transmitter if it is out of use for a long period of time.

⚠ WARNING

Danger to life due to swallowing battery

If the battery is swallowed, serious internal burns can occur within 2 hours and result in death.

Keep batteries out of the reach of children!

Proper disposal: See section 14

9.3 Hand transmitter operation

Each hand transmitter button is assigned a radio code.

- Press the button of the hand transmitter whose radio code you want to transmit.
 - The LED is illuminated blue for 2 seconds.
 - The radio code is transmitted.

9.3.1 Learning behaviour of inherited radio codes

If the radio code of the hand transmitter button is inherited beforehand from another hand transmitter and is being used for the first time, press and hold the hand transmitter button until the LED flashes alternately in red and blue and the desired function is performed.

9.4 Inheriting / transmitting a radio code

- Press and hold the button of the hand transmitter whose radio code you want to inherit/transmit.
 - The LED is illuminated blue for 2 seconds and then
 - After 5 seconds, the LED alternates flashing in red and blue.
 - The hand transmitter button sends the radio code.
- 2. If the radio code is taught in and recognised, release the hand transmitter button.
 - The LED goes out.

NOTE:

You have 15 seconds to inherit/transmit the radio code. If inheriting/transmitting the code was not successful within this period of time, repeat the process.

9.5 Hand transmitter reset

Each hand transmitter button is assigned a new radio code by means of the following steps.

- 1. Open the hand transmitter housing.
- 2. Remove the battery for 10 seconds.
- 3. Press and hold a circuit board button.
- 4. Insert the battery.
 - The LED flashes slowly in blue for 4 seconds.
 - The LED flashes rapidly in blue for 2 seconds.
 - The LED is illuminated blue for a prolonged period of time.
- 5. Release the circuit board button.

All radio codes have been newly assigned.

6. Close the hand transmitter housing.

NOTE

If the circuit board button is released prematurely, no new radio code is assigned.

9.6 LED display

Blue (BU)

Status	Function
Illuminated for 2 seconds	A radio code is being transmitted
Flashes slowly	Hand transmitter is in teach-in mode
Flashes rapidly after slow flashing	A valid radio code was detected during the teach-in procedure
Flashes slowly for 4 seconds, Flashes rapidly for 2 seconds Illuminated for a prolonged period	Device reset is being performed and completed

Red (RD)

Status	Function
Flashes 2 x; following this, the radio code continues to be transmitted	The battery should be replaced soon
Flashes 2 x; following this, the radio code is no longer transmitted	The battery must be replaced immediately

Blue (BU) and Red (RD)

Status	Function
Flashing alternately	Hand transmitter is in inherit / transmit mode

9.7 Cleaning the hand transmitter

ATTENTION

Damaging the hand transmitter by faulty cleaning

Only clean the hand transmitter with a clean, soft cloth.

NOTE

Regular use of disinfectants can cause damage to the hand transmitter.

9.8 Technical data

Hand transmitter HSE 4 BiSecur

Model HSE4-868-BS Frequency 868 MHz Transmitting power (EIRP) max. 10 mW

Power supply 1 × 3 V battery, type: CR2032,

lithium

Perm. ambient temperature 0 °C to +50 °C Max. humidity 93%, non-condensing

Protection category IP 20

Dimensions (W \times H \times D) 28 \times 70 \times 14 mm

9.9 EU declaration of conformity for the hand transmitter

The manufacturer of this operator herewith declares that the provided hand transmitter complies with EU Directive Radio Equipment 2014/53/EU.

The complete declaration of conformity can be found in the enclosed log book or requested from the manufacturer.

10 Bluetooth®

The control for the roller garage door operator is equipped with a Bluetooth receiver. The door system can be operated via Bluetooth® using the corresponding BlueSecur application (app) on a smartphone.

10.1 BlueSecur application (app)

The BlueSecur app is available free of charge in the App StoreSM or from Google[™] Play.

▶ Install the BlueSecur app on your smartphone.

10.1.1 System requirements

Operating system		Software version
Android	Smartphone	from 5
iOS	Smartphone	from 12

10.1.2 App authorisations

In order to use the full functionality of the app, allow the following authorisations:

Camera		To scan the QR code.	
		For the communication between app and receiver.	
Location	Android	For the Bluetooth function.	

10.1.3 Users

Admin	The first user who connects with the receiver via the QR code can add 1 additional admin.	
	Allocates access rights (keys) for users.	
	Can delete access rights (keys) for users.	
	Can adjust relay settings	
Users	Receives access rights (keys) from the admin.	

10.1.4 App functions

In the app, the functions (impulse, lighting, partial opening, choosing OPEN and CLOSE direction and ventilation position) and notifications can be selected. The factory setting is the impulse function.

Trigger a command

When within range of the Bluetooth receiver, a command can be triggered by the user using the app.

10.1.5 Delete device

If the roller garage door operator is deleted in the app using the dustbin icon, you can no longer control the operator using the smartphone. The smartphone is still saved in the operator.

To remove the smartphone from the operator, select menu **19** – parameter **02** and delete all Bluetooth devices (see chapter 7).

10.1.6 Backup

To avoid losing data, you can create a backup on the Hörmann server. Saved data can be accessed there at any time.

To create a backup, you must first register.

All of the following data existing up to this point will be saved:

- devices (roller garage door operators)
- purchased sets of keys
- distributed keys

A backup is necessary for restoring data:

- if the admin changes the smartphone
- before a device reset
- if the smartphone is defective or lost

A backup is strongly recommended to secure the data.

10.2 Enabling / disabling Bluetooth®

If Bluetooth® is disabled:

- Briefly press the button on the control panel. Bluetooth[®] is enabled and in receiver mode. The Bluetooth[®] symbol flashes.
- A connection can be established. The Bluetooth receiver remains in receiver mode for 5 minutes and then switches back to operation mode. The Bluetooth® symbol is illuminated.
- 3. Briefly press the button on the control panel.

 Bluetooth® is disabled. The Bluetooth® symbol is off.
- 4. To enable it again, repeat step 1.

10.3 Configuring Bluetooth®

The first user that connects with the Bluetooth receiver using the supplied QR code is the admin. This procedure can only be performed once!

- 1. Bluetooth® must be activated.
- 2. Start the app in range of the Bluetooth receiver.
- Select the **Teach in** field (iOS) or the + symbol (Android).
 The camera opens.
- 4. Scan the QR code.

The first user is connected with the Bluetooth receiver as the admin.

5. Assign a name to the device.

The Bluetooth receiver is in operation mode.

Store the QR code in a safe place. You will need the QR code to set up a Bluetooth receiver again.

10.4 Operation

A connection to the Bluetooth receiver is always established exclusively through communication with the app, e.g. for triggering a command, adjusting settings in the app or user management.

Only one smartphone can be connected to the Bluetooth receiver at a time. A connection takes approx. 1 second. Only after this can the next smartphone connect to the receiver.

10.4.1 Range

Range and performance are highly dependent on the smartphone. For communication with the receiver, the user must be in range to perform the following actions:

- Trigger a command
- Set up, manage and delete devices
- Delete user permissions

10.4.2 Synchronising

The date and time is synchronised in the receiver with each communication of the admin's smartphone with the receiver.

10.4.3 Power failure

Taught-in keys, user data and settings are saved in a power failure-proof manner.

10.4.4 Loss of the smartphone

In the event that the smartphone is lost, unauthorised parties could have access to the roller garage door. In this case, select menu **19** – parameter **02** and delete the device from the Bluetooth receiver (see section 7).

10.5 Keys

10.5.1 Purchasing sets of keys

In order to distribute keys, the admin must purchase sets of keys using the in-app purchase function. Payment is made according to the App StoreSM or GoogleTM Play policies. One-time keys are free of charge.

10.5.2 Distributing keys

The admin can distribute keys to users via all installed messaging services, e.g. e-mail, Facebook Messenger, iMessage, WhatsApp, etc.

The admin can only distribute a key **once** to another admin. The admin can distribute a maximum of 15 one-time keys simultaneously.

NOTE:

The BlueSecur app must be installed on the smartphone to use the key. If users have not installed the app upon receiving a key, they will be directed to download it from the App StoreSM or GoogleTM Play.

Key type	Validity	
Admin key	Always valid	
User key	Always valid or just for a defined time period	
One-time key	Valid only once and within a maximum of 1 month	

The admin has 2 options for defining the time of validity for one-time keys:

- 1. The one-time key is valid immediately and can be used just once, within 1 month.
- The one-time key is valid from a defined date and can be used just once, within 1 month.

Security when distributing keys

When the admin distributes a key to a user, for security reasons, the user must authenticate himself/herself using a PIN generated by the server. The user must enter this PIN before the key can be provided to him/her.

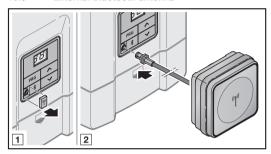
10.5.3 Admin key

Admin keys cannot be deleted, not even by the 1st admin. If you want to delete an admin key, select

menu **19** – parameter **02** and delete the device from the Bluetooth receiver (see section 7).

If an admin key has been distributed by the 1st admin, the 2nd admin must be in range of the receiver to import the key. Once the receiver has recognised the valid admin key, the rights can be used.

10.6 External Bluetooth antenna*



An external antenna is recommended in the event of a limited range.

Configure an external antenna in the app settings. The factory setting is the internal antenna.

10.7 EU Declaration of Conformity for Bluetooth

The manufacturer of this roller garage door operator herewith declares that the integrated Bluetooth receiver complies with EU Directive Radio Equipment 2014/53/EU.

The complete declaration of conformity can be found in the enclosed log book or requested from the manufacturer.

10.8 Open source license

The following open source software is included with this product:

mbed TLS 2.16.1 (https://tls.mbed.org)

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You will find information on specific language-relevant rights and restrictions in the license, whose complete text you will find in the corresponding "BlueSecur" app.

^{* -} Accessory, not included as standard equipment!

11 Operation



⚠ WARNING

Danger of injury due to door run

If people or objects are in the area of the door during door travel, this can lead to **injuries** or **damage**.

- Objects and persons, especially children, must not be in the door system's area of travel or opening area.
- Only operate the operator in door systems with a single safety device if you are within sight of the door's area of travel
- Monitor the door travel until the endof-travel position is reached.
- Go through the door openings of remote-controlled door systems only when the roller garage door is in the OPEN end-of-travel position.
- Never stand under the open door.

⚠ WARNING

Danger of crushing in the side guide

Do not reach into the side guide with your fingers during a door run, as this can cause crushing.

▶ Do not reach into the side guide during a door run.

⚠ WARNING

Overload of the cord knob or emergency release can cause damage to the operator or the control or result in injuries.

Do not hang on the cord knob or emergency release with your body weight.

ATTENTION

Damage from the cord of the mechanical release

If the cord of the mechanical release becomes caught on a roof rack system or any other protrusions of the vehicle or door, this can lead to damage.

▶ Make sure that the cord cannot become caught.

11.1 Instructing users

The operator may be used by

- · children over 8 years of age
- persons with limited physical, sensory or mental capabilities
- persons with a lack of experience or knowledge.

The condition for use of the operator is that the abovementioned children/persons

- are supervised
- · instructed on safe use
- understand the resulting dangers.

Children must not play with the operator and control.

- Show all persons using the door system the proper and safe use of the operator and the control.
- Demonstrate and test the mechanical release and safety reversal.

11.1.1 Cord knob mechanical release (internal roller garage door operator)

Figure 16a

Fix the cord knob for mechanical release at a maximum height of 1.8 m from the garage floor. The cord may need to be extended on site, depending on the height of the garage door.

Make sure that the cord cannot become caught on the protrusions of the vehicle or door.

⚠ WARNING

Danger of injury due to a fast-closing door

If the cord knob is actuated while the door is closing, the door may close quickly due to weak, broken springs or faulty counterbalance.

- Only pull the cord knob when the door is closed.
- Pull the cord knob when the door is closed and guide the cord clip under the housing hook. The door is now unlocked and should be easy to open and close by hand.

11.1.2 Mechanical release by emergency release (external roller garage door operator)

▶ Figure 16b

An emergency mechanical release is required in garages without a second entrance from the outside. An emergency release prevents the possibility of being locked out during a power failure.

Actuate the emergency release with the door closed.
 The door is now unlocked and should be easy to open and close by hand.

11.2 Functions of control buttons

- 1. Press the button . The door opens.
- 2. Press the button again. The door stops.
- 1. Press the button The door closes.
- 2. Press the button again. The door stops.

11.3 Functions of various radio codes

Each hand transmitter button is assigned a radio code. To operate the operator with the hand transmitter, the radio code for the respective hand transmitter button must be taught in to the channel of the desired function on the integrated radio receiver of the control.

▶ Section 7

NOTES

- If the radio code of the hand transmitter button is inherited from another hand transmitter, press and hold the hand transmitter button until the LED flashes alternately in red and blue and the desired function is
- If the control recognises an inherited radio code that has not yet been taught in at the integrated radio receiver, the control automatically changes to learning mode for 10 seconds.
 - 11, 12, 13, 14, 15 or 16 flashes on the display.

11.3.1 Channel 1/impulse

In normal operation, the roller garage door operator works with the impulse sequence control.

Pressing the corresponding hand transmitter button or an external button triggers the impulse.

1st impulse: The door runs towards an end-of-travel

position.

2nd impulse: The door stops.

3rd impulse: The door runs in the opposite direction.

4th impulse: The door stops.

5nd impulse: The door runs in the direction of the end-of-

travel position selected in the 1st impulse.

etc.

11.3.2 Channel 2/lighting

Pressing the corresponding hand transmitter button for light switches the light on and off prematurely.

11.3.3 Channel 3/partial opening

If the door is **not** in the partial opening position, the hand transmitter button with the radio code for partial opening triggers a door run to this position.

If the door is in the **partial opening position**, the hand transmitter button triggers the following:

- A door run in the CLOSE end-of-travel position with the radio code for partial opening.
- A door run in the OPEN end-of-travel position with the radio code for impulse.

11.3.4 Channel 4/choosing OPEN direction

The hand transmitter button with the radio code for OPEN position triggers the impulse sequence (Open – Stop – Open – Stop) for a door run to the OPEN end-of-travel position.

11.3.5 Channel 5 / choosing CLOSE direction

The hand transmitter button with the radio code for CLOSE position triggers the impulse sequence (Close – Stop – Close – Stop) for a door run to the CLOSE end-of-travel position.

11.3.6 Channel 6 / ventilation

If the door is **not in the ventilation position**, the hand transmitter button with the radio code for ventilation triggers a door run to this position.

If the door is in the **ventilation position**, the hand transmitter button triggers the following:

- A door run in the CLOSE end-of-travel position with the radio code for ventilation.
- A door run in the OPEN end-of-travel position with the radio code for impulse.

11.3.7 Channel 7/all functions

Intended for Hörmann Smart Home control centres (e.g. Hörmann homee Brain).

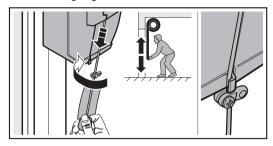
11.4 Roller garage door operator behaviour after 3 fast OPEN door travels in a row

The motor of the roller garage door operator is equipped with thermal overload protection. If the operator performs 3 fast runs in the OPEN direction within 2 minutes, the overload protection reduces the travel speed in the OPEN direction. After an idle time of another 2 minutes, the next run in the OPEN direction is then once again fast.

11.5 Behaviour during a power failure on the internal roller garage door (without an emergency battery)

During a power failure, open and close the door system by hand. Disengage the operator first.

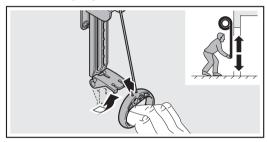
Internal roller garage door



 Pull the cord knob and guide the cord clip under the housing hook.

The operator and barrel are disengaged for manual operation.

External roller garage door



- Use the handle to pull the emergency release and keep the handle pulled down.
- Flip the fixation upwards and push the cable into the slot of the fixation.

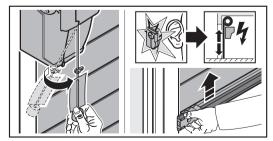
The operator and barrel are disengaged for manual operation.

11.6 Behaviour after the power returns (without emergency battery)

After the power returns, (88) flashes until all the taught-in radio codes are loaded.

After the power returns, you have to re-engage the operator and barrel for automatic operation.

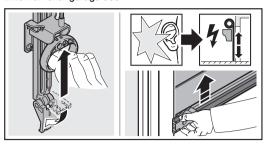
Internal roller garage door



Release the cord knob from the housing hook and lock the mechanism with an audible click.

The operator and barrel are re-engaged for automatic operation.

External roller garage door



 Release the handle from the fixation and lock the mechanism with an audible click.
 The operator and barrel are re-engaged for automatic operation.

11.7 Behaviour during a power failure (with an emergency battery)

▶ Figure 12

To move the door in the event of a power failure, an optional emergency battery can be used. The system is switched to battery operation automatically. The light is dimmed during battery operation.

M WARNING

Danger of injury due to unexpected door run

Unexpected door run may occur when the emergency battery is still connected despite the mains plug being pulled out.

Disconnect the mains plug and the plug of the emergency battery whenever performing work on the door system. Safeguard the door system against being switched on again without authorisation.

11.8 Reference run Display

A reference run is required:

- If the power limit is activated 3x in a row during a run in the CLOSE direction.
- In case of a power failure.
- If the operator has been unlocked

A reference run is performed:

- Only in the OPEN direction. The light and display flash.
- At a reduced speed.
- With a minor increase in force of the most recently taught-in forces.

The impulse triggers the reference run. The door moves to the OPEN end-of-travel position.

12 Inspection and maintenance

The roller garage door operator and roller garage door control are maintenance-free.

The manufacturer recommends that the door system is checked and maintained **annually** by a specialist.

⚠ WARNING

Danger of injury due to unexpected door run

An unexpected door run may occur during inspection and maintenance work if the door system is inadvertently actuated by third persons.

Disconnect the mains plug and the plug of the emergency battery whenever performing work on the door system. Safeguard the door system against being switched on again without authorisation.

Inspection and repairs may only be carried out by a specialist. Contact your specialist dealer.

A visual inspection may be carried out by the operator.

- ► Check all safety and protective functions monthly.
- Check all safety devices without self-testing every six months
- You must eliminate any errors or defects immediately.

Do not allow children to clean or maintain this operator without supervision.

12.1 Checking safety reversal / reversing

To check safety reversal/reversing:



- Stop the door with both hands while it is closing. The door system must stop and initiate the safety reversal.
- Stop the door with both hands while it is opening.
 The door system must switch off and take the load off.
- Position a test object with a height of approx. 50 mm in the centre of the opening and close the door. The door system must stop and initiate the safety reversal as soon as it reaches the obstacle.
- In the event of a failure of the safety reversal, a specialist must be commissioned immediately for the inspection or repair work.

12.2 Change the light module

Figure 17

Туре	Light module for lighting	
Nominal power	3.5 W - 10 LEDs	
Nominal voltage	37 V	

When the light is on, a voltage of 37 V DC is applied.

 Only exchange the light module when the control is without voltage.

13 Dismantling

NOTE:

When dismantling the system, observe the applicable workplace safety rules and regulations.

Have a specialist dismantle the roller garage door operator or the roller garage door control in the reverse order of these instructions and dispose of it properly.

14 Disposal



Dispose of the packaging sorted by materials



Electrical and electronic devices

must be disposed of at the appropriate recycling facilities.



Dispose of the batteries separately

Each consumer is legally required to leave batteries with a collection point in their community, their district, or with a trader.

15 Technical data

Mains voltage Standby Frequency

230/240 V, 50/60 Hz

< 1 W

Radio system: 868 MHz

Bluetooth: 2.4 GHz

Permissible ambient temperature Max. humidity Protection category Automatic safety cut-out

End-of-travel position cut-out/power limit

-20 °C to +60 °C 93%, non-condensing Only for dry rooms Is automatically taught in for both directions separately Self-learning

Wear-free.

Automatic safety cut-out, readjusting at every door travel

Travel time limit Rated load Pull and push force Motor

See data label See data label

Direct current motor with Hall

sensor

90 s

Switching power supply Connection

24 V DC / 37 V DC

Screw terminal for external devices

Screwless connection technology for external 2-wire buttons and photocells

Special functions

Photocell or closing edge safety device can be connected

Option relay, adapter print and additional HCP BUS participants can be connected

Manual operation from the inside by cord knob, from the outside

Door travel speed

Quick release

with emergency release Approx. 11 cm/s1) for travel in

the CLOSE direction Approx. 17 cm/s1) for travel in

the OPEN direction

Airborne sound emission of roller garage door operator

 \leq 70 dB (A)

1) depending on door size, door weight and barrel diameter

16 Warranty conditions

Warranty period

In addition to the statutory warranty provided by the dealer in the sales contract, we grant the following warranty for parts from the date of purchase:

- 5 years on operator technology, motor and motor control
- 2 years on radio equipment, accessories and special

Claims made under the warranty do not extend the warranty period. For replacement parts and repairs the warranty period is six months or at least the remainder of the warranty period.

The warranty claim only applies in the country where the equipment was purchased. The product must have been purchased through our authorised distribution channels. A claim under this warranty exists only for damage to the object of the contract itself

The receipt of purchase substantiates your right to claim under the warranty.

Services

For the duration of the warranty we shall eliminate any product defects that are proven to be attributable to a material or manufacturing fault. We pledge to replace free of charge and at our discretion the defective goods with non-defective goods, to carry out repairs, or to grant a price reduction. Replaced parts become our property.

Reimbursement of expenditure for dismantling and fitting, testing of parts as well as demands for lost profits and compensation for damages are excluded from the warranty.

Damage caused by the following is also excluded:

- Improper fitting and connection
- Improper initial start-up and operation
- External factors such as fire, water, abnormal environmental conditions
- Mechanical damage caused by accidents, falls, impacts
- Negligent or intentional destruction
- Normal wear or deficient maintenance
- Repairs conducted by unqualified persons
- Use of non-original parts
- Removal or defacing of the data label

17 EC/EU declaration of conformity/manufacturer's declaration

(as defined in EC/EU Machinery Directive 2006/42/EC according to Annex II, Part 1 A for a complete machine or Part 1 B for incorporation of an incomplete machine)

For the end user to fit this roller garage door operator, only a combination with specifically approved door types is permitted. These door types can be found in the complete EC/ EU Declaration of Conformity in the provided log book.

However, if this roller garage door operator is not combined with an approved door type, the fitter will be considered a manufacturer of the complete machine.

In this case, fitting may only be done by a fitting company, as only they have knowledge of the relevant safety regulations, valid directives and standards, as well as the required testing and measuring devices.

The appropriate manufacturer's declaration can also be found in the provided log book.

18 Displaying errors, warnings and operating modes

18.1 Lighting messages

Status	Function
Flashes slowly	Learning run or reference run is being performed
Flashes 3× once	Maintenance interval has been reached
Illuminated for 120°seconds	The operator has not been taught in (delivery condition)
	Normal operation

18.2 Operating condition display

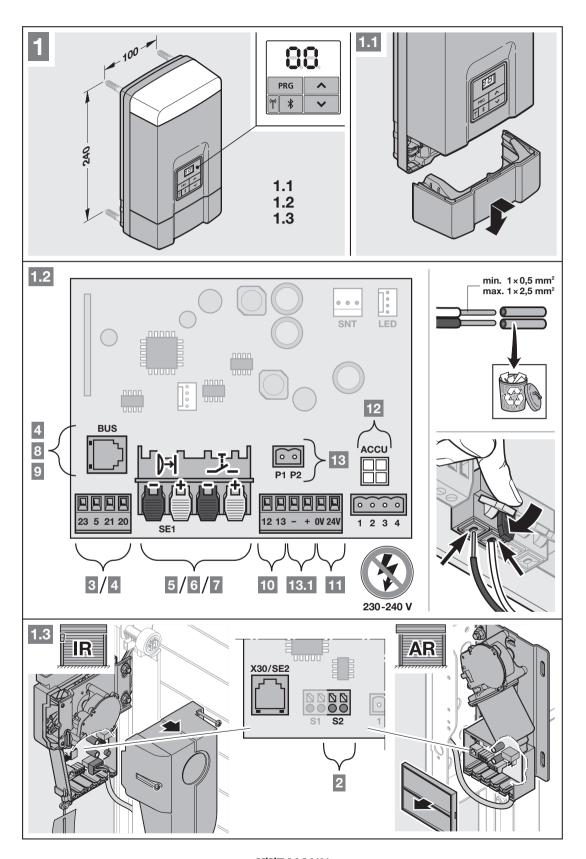
88	The operator is not fitted and has not been taught in		
8.8	The operator has not been taught in		
8.8.	Learning runs are necessary		
(88)	The operator performs the required learning run in the CLOSE direction		
(8.8)	The operator performs the required learning run in the OPEN direction		
8.8.	The operator is in the OPEN end-of-travel position		
8.8.	The operator is in the CLOSE end-of-travel position		
(=)	The operator moves in the OPEN direction The automatic timer is active		
E(E))	The operator moves in the CLOSE direction		
((E))	The operator is in the OPEN end-of-travel position The pre-warning phase is active		
((E)	The operator is in the CLOSE end-of-travel position The pre-warning phase is active		
8.8.	The operator is in an intermediate position		
((-)))	The operator is in an intermediate position The pre-warning phase is active		
8.8	The operator is in the partial opening position		
	The operator moves to the partial opening position		
	The operator is in the partial opening position The automatic timer is active		
((H)))	The operator is in the partial opening position The pre-warning phase is active		
88	The operator is in the ventilation position		

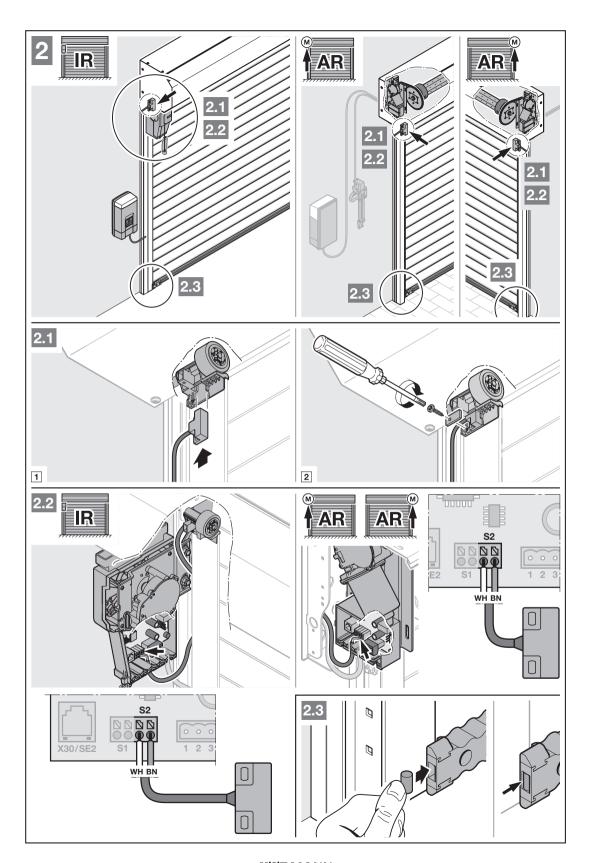
(88)	The operator moves to the ventilation position		
	1. The operator is in the ventilation position		
	2. The pre-warning phase is active		
88	Impulse input from a radio code (flashes 1 x)		
((())	Standby (flashes continuously)		
8.8.	Sends the door position feedback to the hand transmitter (flashes 1x)		
	Reference run is being performed		
8.8	Illuminated for 2°seconds		
0.0.	On power restoration after a power failure.		
	2. After a factory reset		
(8.8.)	All taught-in radio codes are being loaded.		
(8.5.)	Performing BUS scan		
(88)	Alarm - when the anti-lift kit is triggered		

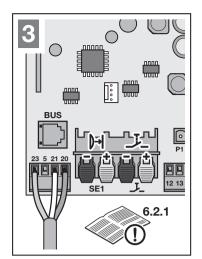
18.3 Display of errors and warnings

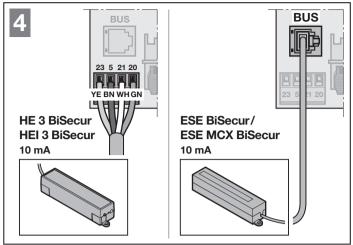
Display	Error / warning	Possible cause	Remedy
8.8.	Setting the reversal limit is not possible	When setting the SKS reversal limit, an obstacle is in the way	Remove the obstacle.
		The position of the reversal limit is > 200 mm before the CLOSE end-of-travel position	Pressing the or button acknowledges the error. Select a position < 200 mm before the CLOSE end-of-travel position.
		The test body was not recognised when setting the SKS reversal limit.	Repeat the setting of the reversal limit.
	Setting the partial opening position is not possible	The partial opening position is too close to the end-of-travel positions (≤ 120 mm travel)	The partial opening position must be > 120 mm.
	Setting the ventilation position	The ventilation position is	The ventilation position must be 35 – 300 mm travel before the CLOSED end-of-travel position.
	is not possible Door teach-in not possible	outside of the permitted range The taught-in travel path is too	Increase the distance between the end stops.
	Upper limit switch	The limit switch was retrofitted and not recognised during the learning runs	Teach in the operator (see section 5.1).
		The taught in limit switch does not trigger	Check the limit switch. Replace the limit switch if necessary.
		During a reference run, a force	Correct the door travel.
		error occurs because the door is too sluggish or the Hall sensor is defective.	Check the Hall sensor. Replace the hall sensor if necessary.
	Safety equipment on SE1	No safety devices are	Connect a safety device.
		connected	Deactivate the safety device in the menu by performing a reset (section 7, menu 37).
		The safety device signal is interrupted before travel	Set / position the safety device.
			Check the connecting leads. If necessary, replace the connecting leads.
		The safety device is defective	Replace the safety device.
88	Power limit in the CLOSE direction	The door is too sluggish or does not move smoothly	Correct the door travel.
(6)		Obstacle in door area	Remove the obstacle. Teach in the operator again, if necessary.
	Static current circuit interrupted	Static current circuit interrupted on the emergency release	Check the emergency release (coupling switch).
		Static current circuit interrupted on the accessory connected to the BUS jack.	Check the accessory on the BUS jack.
		Manual locking is active	Deactivate manual locking
8.5.	Power limit in the OPEN direction	The door is too sluggish or does not move smoothly	Correct the door travel.
		Obstacle in door area	Remove the obstacle. Teach in the operator again, if necessary.
		Spring break	Check the springs. If necessary, only have a specialist replace the springs.
		Spring tension decreasing	Check the spring tension. If necessary, have a specialist adjust the spring tension.
8.8.	System error	Internal error	Perform a factory reset and teach in the operator again. Replace the operator or control, if necessary.
		The operator or control is defective	Replace the operator or control.

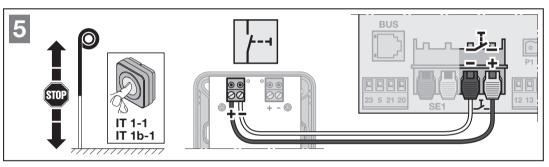
Display	Error / warning	Possible cause	Remedy
8.8	Communication error	Communication with control element or additional print is faulty	Check the connecting leads. If necessary, replace the connecting leads.
			Check the control element or additional print. Replace the control element or additional print, if necessary.
			Perform a BUS scan (section 7, menu 37).
\overline{n}	Control elements / operation	Error during input	Check and change the input.
		Input of invalid value	Check and change the input value.
(.,)	Travel command is not possible	The operator was locked for the control elements and a	Release the operator for the control elements.
	position	travel command was issued	Check the IT3b connection.
	Specific to taught-in safety devices	Self-testing safety device is interrupted	Check the safety equipment. Replace the safety equipment, if necessary.
		Closing edge safety device actuated	Remove the obstacle.
		Closing edge safety device defective or not connected	Check the closing edge safety device. Replace the closing edge safety device, if necessary.
88.	Voltage error (over/undervoltage)	For battery operation: Signalling on the battery In the event of power supply undervoltage: Internal error without signalling	Charge the battery. Check the voltage source.
88.	Spring	Spring tension decreasing	Check the spring tension. If necessary, have a specialist adjust the spring tension.
(@)		Spring break	Check the springs. If necessary, only have a specialist replace the springs.
88	No reference point	The CLOSE direction power limit was activated 3 × in a row	Move the door to the OPEN end-of-travel position.
		Power failure	
8.8.	The operator has not been taught in	No error The operator has not been taught in yet	Teach in the operator (see section 4).
88	Maintenance interval signal (display In flashes 3 × in each end-of-travel position)	No error The maintenance interval set by the fitter has been exceeded.	Have the door system inspected and maintained by a specialist in accordance with manufacturer specifications.

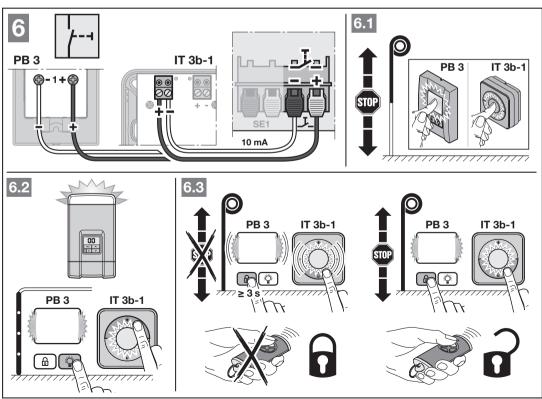


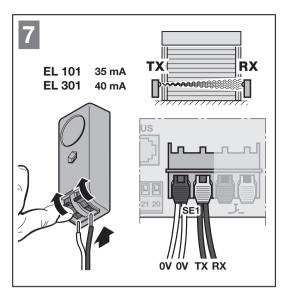


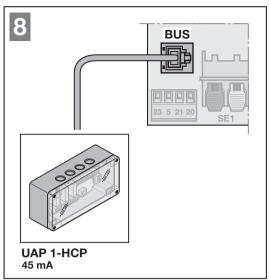


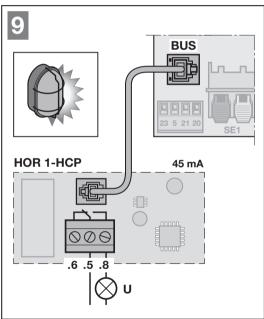


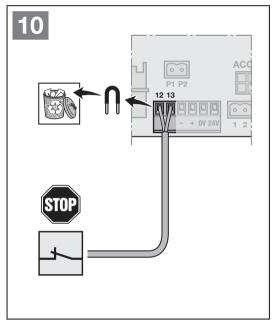


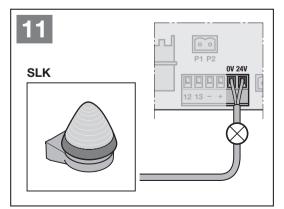


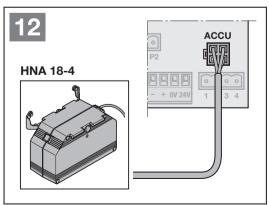


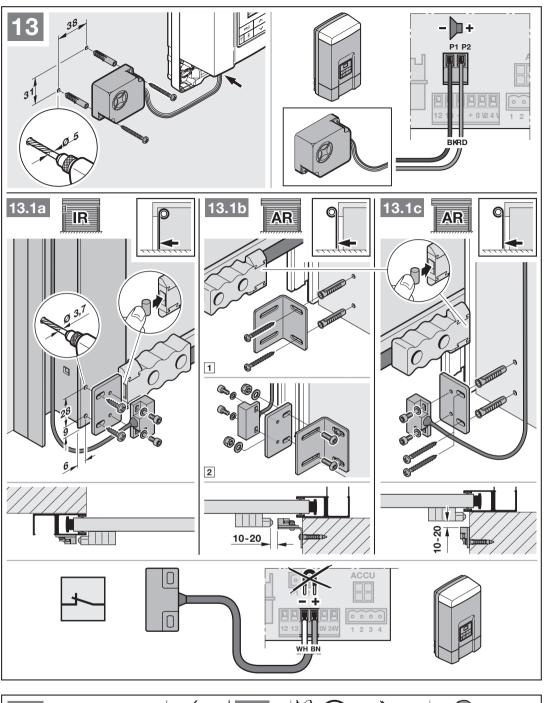


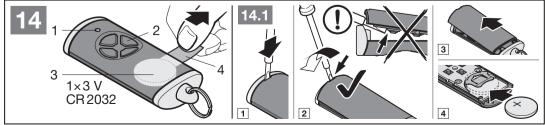


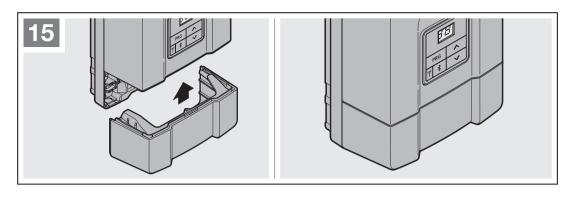


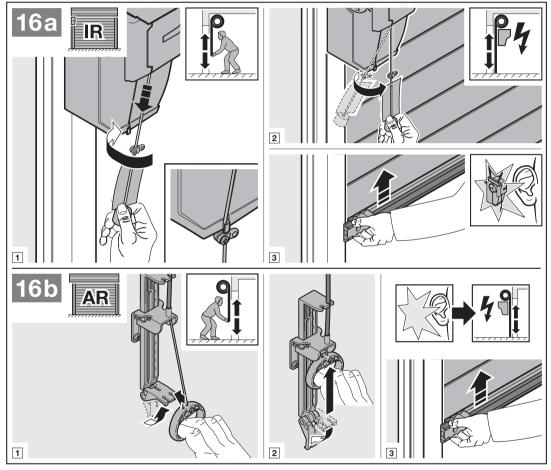


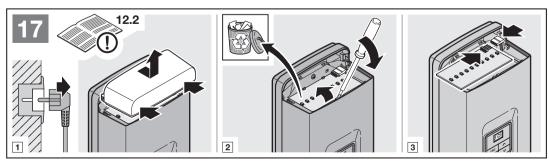












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