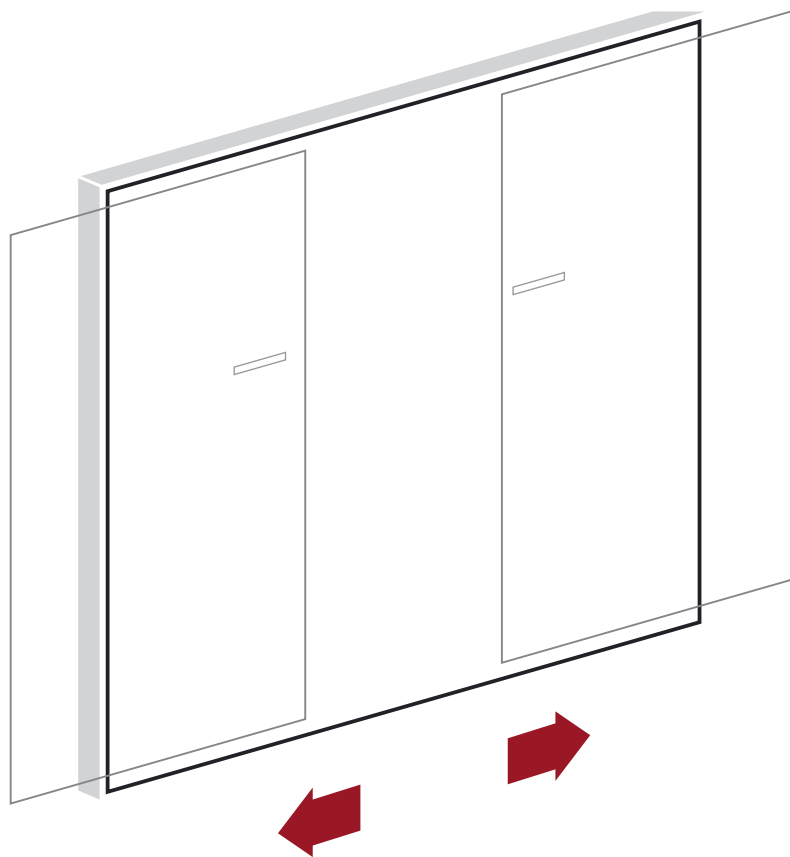


# Holux

Automatic Doors



## Holux X3/L

Installation Instruction

# Contents

<b>1.</b> General remark	<b>2</b>
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## **1 - General remark**

By bringing original design, simple aesthetic qualities and top-notch German technology, we have managed to create dependable and powerful sliding entry solutions. Many and various interior or exterior applications can benefit from our Holux drive systems.

### Target group

Deuschtec GmbH is among the most impressive manufacturers of automatic door systems in all quarters of the globe. Our door drives function as smoothly and softly as possible and bring you unbelievably outstanding quality. We have given "intelligent and processor-controlled systems a whole new meaning. Whether you are looking for a stand-alone application or you are in search of a trustworthy solution for your next huge project. Deuschtec is there for you. Deuschtec creative entrance solutions lavish you with complete freedom of design and bestow on you the perfectly reliable system you deserve. Our systems' inspiring advanced technology and their unique elegant designs meet every single need of modern architecture. We can guarantee that all your desires for optimal door drives, from aesthetic features to futuristic customized approaches, are satisfied by Deuschtec. With us, everything is possible.

### Addresses

#### Address:

Am Fuchsbau 13

15345

Petershagen/Eggersdorf

Deutschland

Phone: +49 (0) 3341 30 22 4 – 0

E-mail: [info@deuschtec.de](mailto:info@deuschtec.de)

## **2 - Safety**

### **2.1 General**

Holux drive complies with the safety requirements and/or protective measures of this clause. In addition, the machine is designed according to the principles of EN ISO 12100 for relevant but not significant hazards, which are not dealt with by this document.

Holux drive as specified in this European Standard, including conversion of manual Holux drive, is designed, constructed, installed, operated and properly maintained to meet the requirements of this European Standard. Warning signs are used to draw the users' attention to residual risks, if any. Holux drive is designed and installed in such a way that they do not have any sharp edges that could result in injuries due to cuts or grazes. Holux drive is designed in such a way that they can be installed, used, inspected, maintained and dismantled safely.

We recommend that you follow the instructions described below in order to avoid material damage and personal injuries. All of the instructions that need to be followed with a special degree of diligence have been marked with a symbol. If you have any questions, we recommend that you contact your supplier. Although we have exercised a great degree of diligence in creating these instructions, they do not absolve you of your own responsibility. All the tasks should be carried out by professionals or by trained personnel. Deviations can result in faulty functioning and voiding the warranty. Use protective equipment, gloves and goggles.

### **2.2 Drive**

The Holux drive is constructed in such a way that it will move and stop the leaf (leaves) in a safe manner. Under intended conditions of use and reasonably foreseeable misuse. It provides connection facilities for all relevant start, stop and protective devices. Electrical components fulfil the requirements of EN 60335-2-103 for electrical safety.

Check the operational status of the door on a daily basis. In case of operational irregularities, decommission the door and notify your service partner. When the system is locked, the escape function is disabled!

### **2.3 Initial Assembly**

Secure your installation site against unlawful entry by unauthorized individuals. Ensure that the location in question is well-lit and that the floor is secure. Use appropriate measures to protect the site from contaminants. Check the stability of the structure. Work on electrical systems must be performed by authorized staff. Deuschtec GmbH shall not be liable for accidents caused by improper assembly, maintenance and operation.

## **2.4 Maintenance**

Before work, examine the status of the door, particularly the safety elements, and the general condition. Damage to the glass, the electrical feed and the mechanical function (e.g. stiffness and wedging) must be repaired prior to maintenance. Secure your installation site against unlawful entry by unauthorized individuals.

### 2.4 Maintenance

Before work, examine the status of the door, particularly the safety elements, and the general condition. Damage to the glass, the electrical feed and the mechanical function (e.g. stiffness and wedging) must be repaired prior to maintenance. Secure your installation site against unlawful entry by unauthorized individuals.

## **2.5 For the users**

Carefully read and abide by this user manual before commissioning the door. Always observe the following safety instructions:

- Operating, maintenance and repair conditions specified by Deuschtec must be observed. 3
  
- The commissioning, mandatory installation, maintenance and repair work must be performed by experts authorized by Deuschtec.
- Any relevant additional country-specific and European directives must also be observed.
- Use in dry rooms only.
- The intervals for safety-related testing are to be complied with based on the country-specific regulations.
- The connection to the main voltage must be made by a professional electrician.
- No changes may be made to the system without prior agreement from Deuschtec.
- Deuschtec shall assume no liability for damage caused by unauthorized changes to the system.
- The owner is responsible for safe operation of the system.
- Have a service technician check the safe operation of the system at regular intervals.
- Should safety devices be misaligned, thus preventing them from fulfilling their intended purpose, further operation is not permissible. The service technician must be informed without delay.
- Make sure that the safety stickers are attached visibly to any glass leaves and are in a legible state.
- Protect the programmed switch against unauthorized access.
- Danger of injury by sharp edges on the drive when removing the cover
- Danger of injury by parts hanging down

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, Sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or Instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.

## 2.6 Explanation of Symbols



Warning: Risk of Injury



Warning: Electric Shock Possible (risk of injury or death) Repairs should be carried out by an electrician.

## 2.7 Safety distances

Sufficiently dimensioned safety distances to prevent crushing or drawing in are:

-  $\leq 8$  mm or  $\geq 25$  mm for fingers,



-  $\geq 200$  mm for the head,



-  $\geq 500$  mm for the body

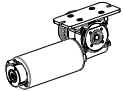
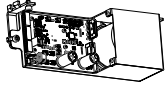
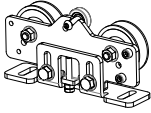
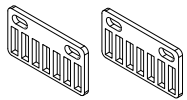
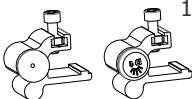

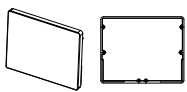
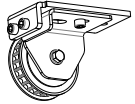


## 3 - PRODUCT DESCRIPTION

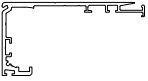
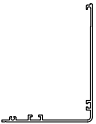
### 3.1 Technical Data

Power Supply:	230 V AC	Max. Weight of Leaf:	1 x 120 Kg
Frequency:	50 Hz	Passage Width:	800 - 3000 mm
Power Consumption:	max. 150 W	Max. Passage Height:	3000 mm
Power Consumption in Idle State:	5 W	Opening Speeds:	100-550 mm/s
Protection Class:	1	Closing Speeds:	100-500 mm/s
Type of Protection:	IP20	Hold-open Time:	1-60 s
Temperature Range:	-15 to +50°C	Sound Emission:	< 70 dBA
Max. Weight of Leaf:	2 x 90 Kg		



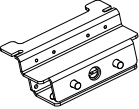


### 3.2 Contents of delivery

	<b>Art.-No.</b>	<b>Description</b>	<b>This kit/set incl.</b>
	1000000961	Holux Assembled Motor 50W-24V	1 Pcs.
	1000001096	Holux X3/L Control unit	1 Pcs.
	1000000337	Holux Hanger & Roller	4 Pcs.
	1000000334	Holux Belt Clamp set	1 Set.
	1000001795	Holux Stopper Pack	1 Set.
	1000000115	Holux Cover and Cable Clip	1 Set.
	1000000362	Holux Side Cover Pack	1 Set.
	1000000376	Holux Standard Cable Pack	1 Set.
	1000000371	Holux Pack Screw	1 Set.
	1000000351	Holux Idler Pulley	1 Pcs.

### Holux Profile Set

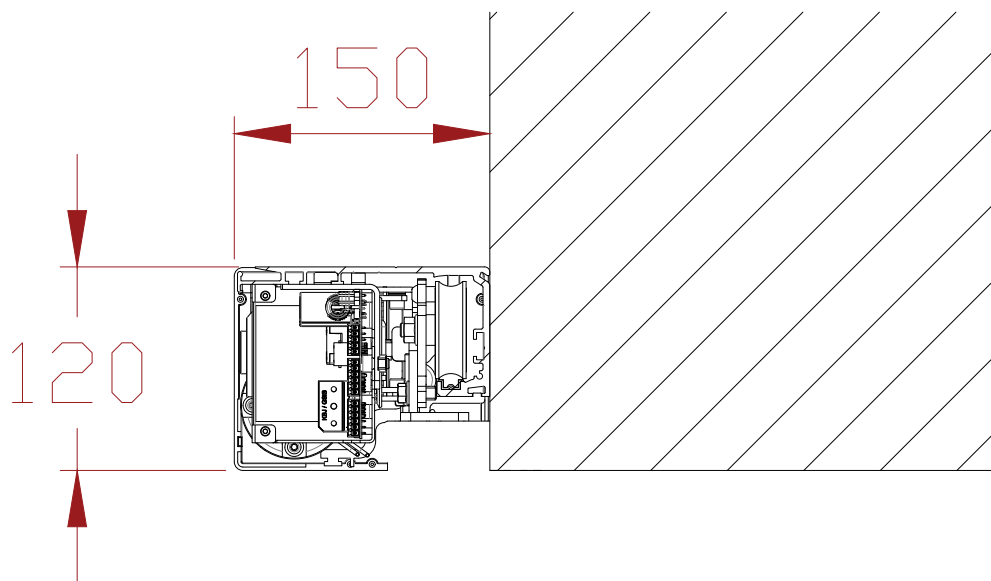
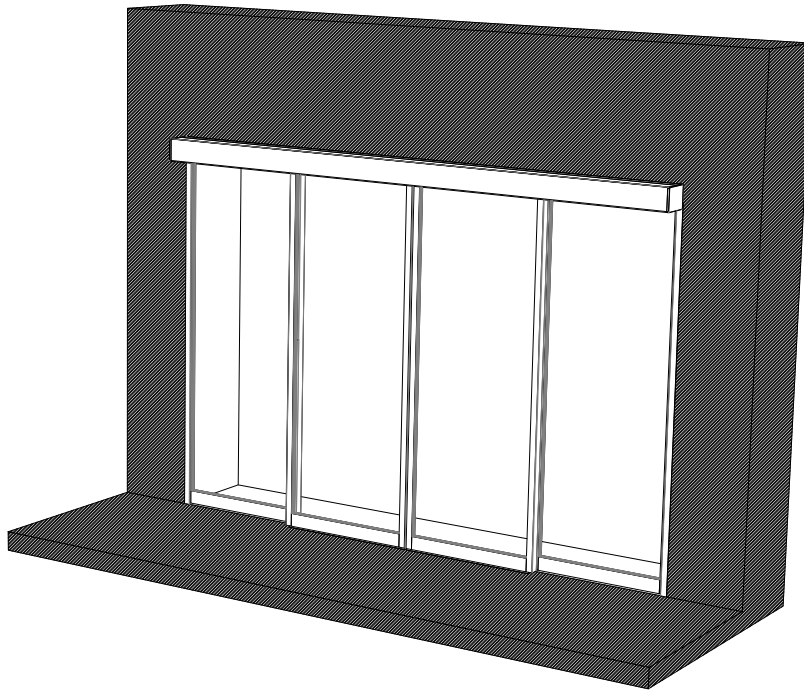
Art.-No.	Description	This kit/set incl.
	Holux Rail profile , AL	1 Pcs.
	Holux Cover profile , AL	1 Pcs.

### Accessories

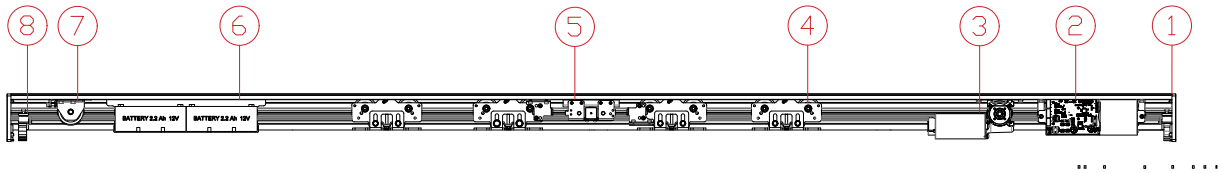
Art.-No.	Description	This kit/set incl.
 1000001029	Mechanical key switch ( Holux logo)	optional
 1000000168	Digital programmer switch (Holux logo)	optional
 1000000174	Electromechanical lock-GN	optional
 1000000124	Battery pack - GN	optional
 1000000392	Battery Set - GN	optional
1000000198	Frameless glass clamp set - IR	optional
1000000195	Timing Belt HTD 8M, 12mm, 4.5 meter	optional



#### 4 - General remarks

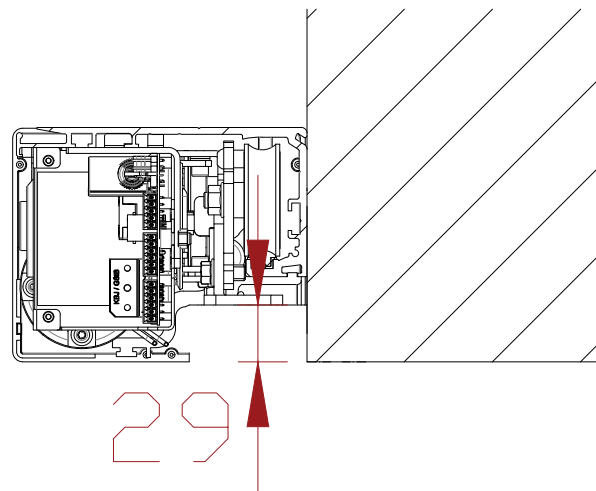


#### 4 – 1 Installation

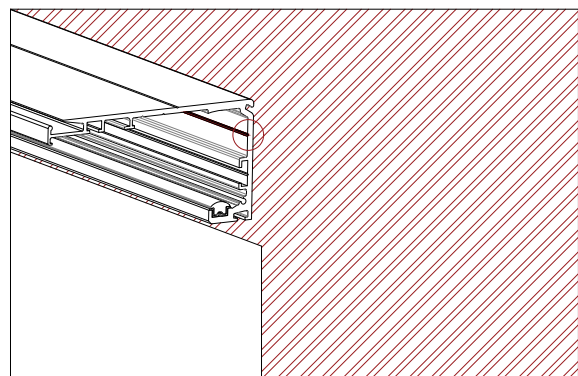


- 1 – Side cover
- 2 – Control box
- 3 – Motor
- 4 – Hanger
- 5 – Lock (Optional)
- 6 – Battery (Optional)
- 7 – Idler
- 8 – Stopper

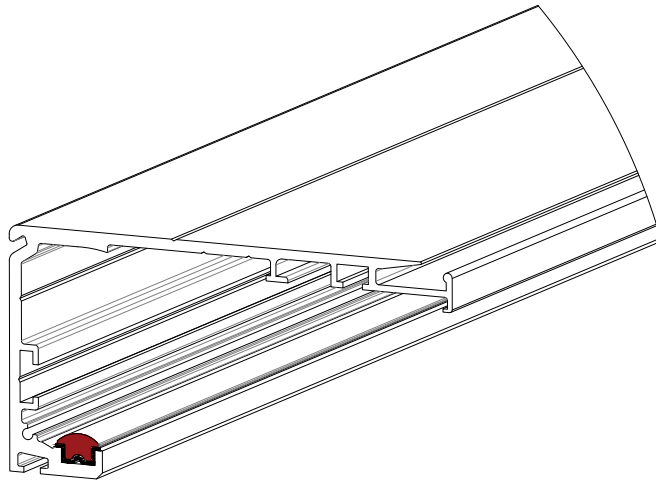
#### 4.2 Adjust the rail horizontally – on facade



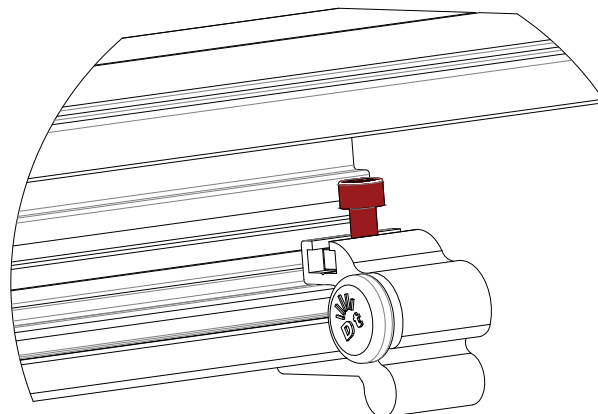
#### 4.3 Fix the rail – on facade



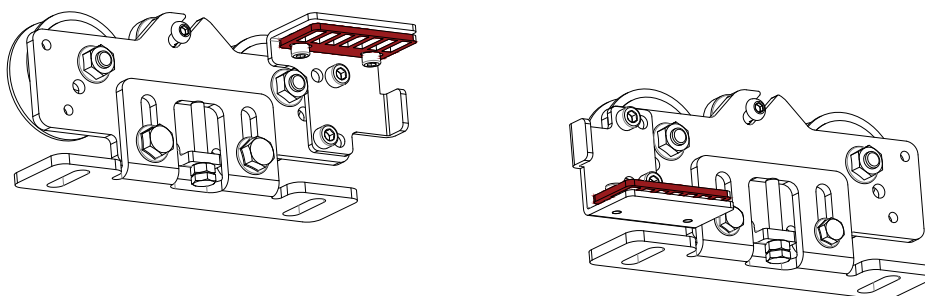
**4 - 4 Install rail profile and track profile**



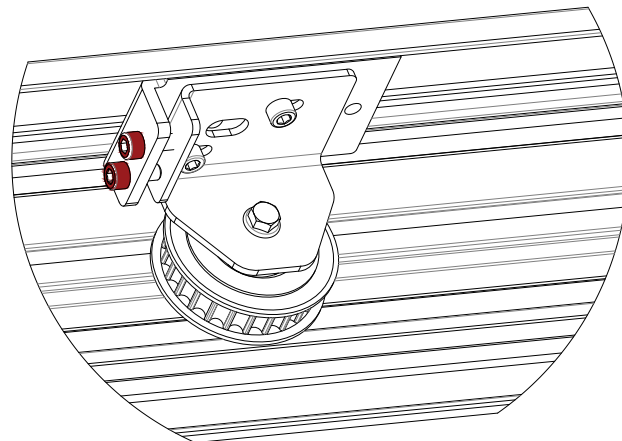
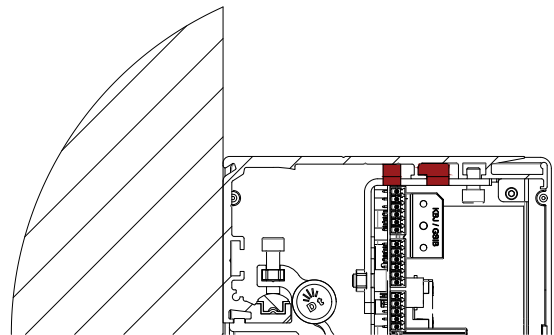
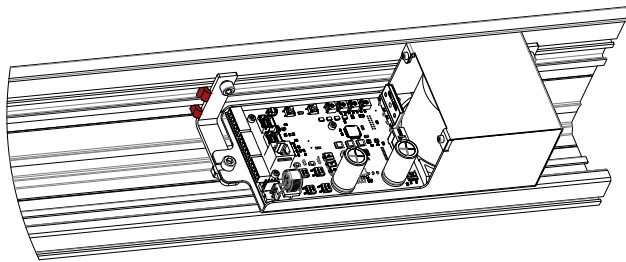
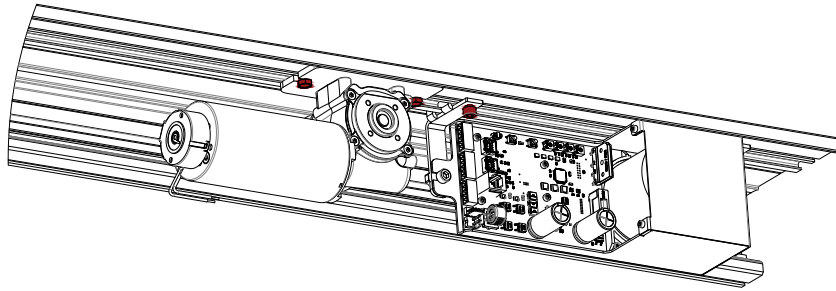
**4 - 5 Install stoppers**



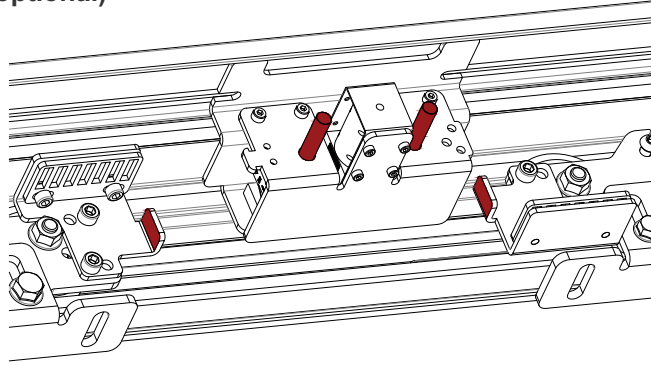
**4 - 6 Install hangers through the rail**



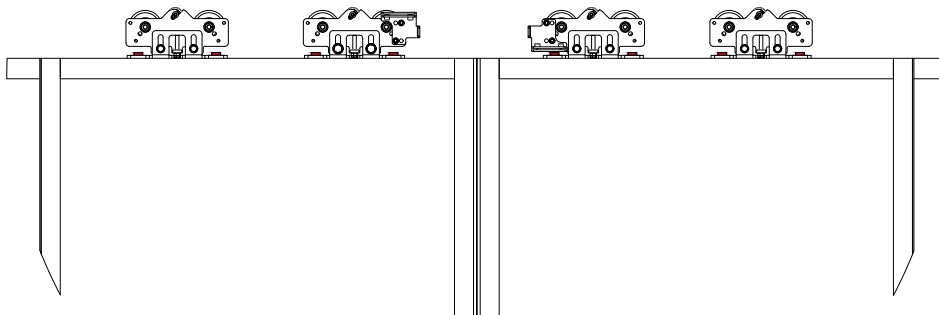
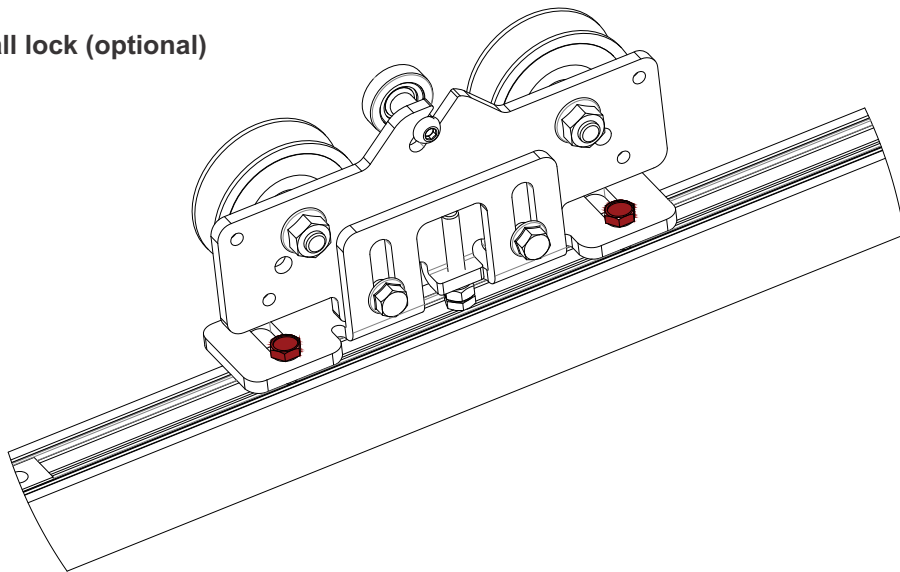
4 – 7 Install components



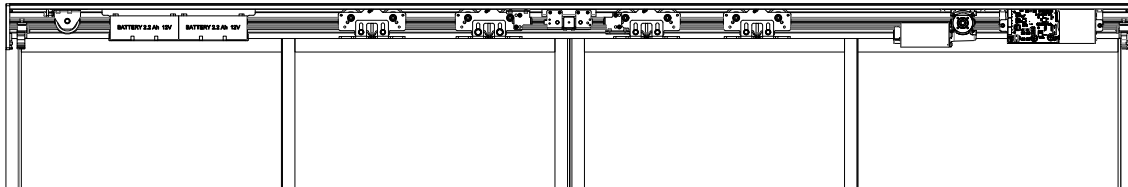
**4 - 8 Install lock (optional)**



**4 - 8 Install lock (optional)**



#### 4 – 10 Check components 'layout



#### 5 - SHUT-DOWN

No particular measures need to be taken for de-commissioning the installation. If the sliding door installation will not be used during at least 1 month, it is recommended to pull out the mains plug (and, if provided, the battery plug). Attention: For this purpose, the door must be in the operating mode NIGHT, in order to avoid a discharge of the battery (option). If an installation with emergency battery is planned to be taken out of operation for a period exceeding 1 year, the battery plug and the mains cable must be plugged in once a year for at least 24 hours in order to allow the batteries to be recharged. For taking the installation back into operation, all you have to do is to plug in the mains cable/the battery plug and select the operating mode. If the sliding door installation has been out of operation for more than 3 months, we recommend to have the re-commissioning carried out by your after-sales service. Attention: If the installation is re-commissioned at low temperatures, it must be switched on 1...2 hours prior to the actual setting-up procedure (so that the operating temperature can be reached).

#### 6 - SERVICE

- Clean the floor within the area of the sliding wings. Remove the dirt from any existing bottom guideway once a week with a vacuum cleaner. Use tongs/pliers for removing any solid objects from the bottom guideway.
- Clean the glass sliding wings and the side panels using a glass cleaning product customary in trade or a mild soap water.
- Clean the outside of the drive case, of the frames and of the covering with a moistened rag.

Warning: Do not use running water or high-pressure machines for cleaning the area of the drive case.

Attention: Do not use any metal brushes or chemical products for cleaning the installation.

## 7 - DISPOSAL OF THE INSTALLATION

An ecologically acceptable disposal of the installation is ensured if the different materials are separated and recycled. No particular measures are required for the protection of the environment. However, the relevant legal prescriptions applicable for the installation site have to be complied with! We advise you to entrust your after-sales specialists with the dismantling and disposal of your installation. They will guarantee that the work is carried out according to the rules of environmental protection.



You can also request a recall by contacting the company to receive the system again from the company.

## 8 - Starting up the operator

Without digital key:

For a newly-installed system, the following conditions should be met prior to the test drive. A maximum of 5 calibration runs or calibration runs that cover a total of one minute can be used.

After 5 calibration runs, the door starts up and remains in the open position.

The door must be operational when it is installed.

The travel way of the door leaf must be free of obstacles.

The battery terminal must not be pinned up.

The power supply should not be connected.

Sensors must not be connected.

The key switch must be set to 'Automatic'.

If a key switch is not available, you must position a bridge between connections 13 & 14. (This switches the system to automatic mode).

The door must be opened manually to attain the full opening width .

The PRG Mode potentiometer must be positioned to the right.

The voltage supply is now set up. After a few seconds, the door begins the calibration run. This is how the door calculates the distance (the travel path) and the weight of the leaves. The door closes, opens and closes again. From this point onwards, the door is ready for operation.

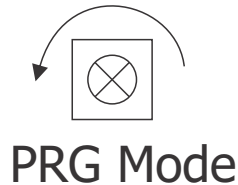
With digital key:

Please refer to digital programme switch instruction manual.

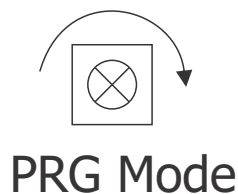
### 9- Modifying the parameters (Without digital key)

You can use the potentiometers to adjust the closing speed, the opening speed and the hold-open time. Press the test button to inspect and save your settings. You can use a maximum of 5 calibration runs.

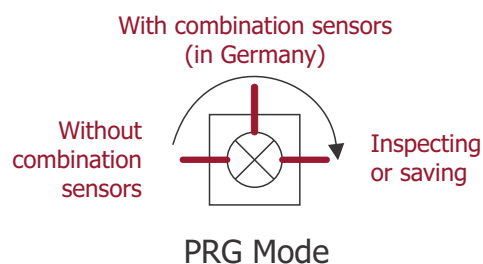
If 5 calibration runs do not suffice, execute a run with the PRG Mode positioned towards the left.



Position the PRG Mode potentiometer towards the right. A further 5 calibration runs can now be executed.



If combination sensors are being used, set the PRG Mode potentiometer to the central position. If combination sensors are not being used, the PRG Mode potentiometer must be turned all the way to the left. The sensors, the batteries and the lock can now be connected, after which the door is operational.





## 10. Mechanical Key Switch

The key switch has 5 possible modes:



### Full Open

The door leaves are opened and kept open.



### One-way

The door leaves are only opened when the internal sensors are activated.



### Partial Open

The door leaves are opened to a pre-specified width.



### Lock

The opening door leaves are closed and the lock (if installed) is activated.



### Automatic

The opening door leaves are opened and closed when the sensors are activated.







## 11- Troubleshooting

If a newly installed door fails to start up, or if a function is found to be faulty during automatic operation, use the error criteria to check whether it is possible to rectify the defect. If it is not possible to restore the door to a secure operational status, decommission the door temporarily and notify your service partner.

<b>Error</b>	<b>Cause</b>	<b>Action</b>
Door does not open.	Rotary switch is set to the 'Close' mode.	Change the operating mode.
Door does not open.	The main power supply is inaccessible and the battery is inoperative.	Connect the main power supply and check the battery.
Door does not open.	Activated sensor is inoperative.	Notify your service center.
Door remains open.	Safety sensors are activated. LED at the sensor turns red.	Remove the obstacle that is in the door's threshold range.
Door remains open.	The main power supply is inaccessible and the battery is inoperative.	Reconnect the main power supply and check the battery.
Door moves forward by a few centimeters, but then it moves backwards.	Safety sensors detect an obstacle in the door's threshold range.	Remove the obstacle that is in the door's threshold range.
Door moves forward by a few centimeters, but then it moves backwards.	The activated sensor scans the door wings.	Contact your service center in order to get the sensors adjusted.
Door moves forward by a few centimeters, but then it moves backwards.	The encoder line is disconnected or open.	Contact the service center.











## 12 - LED Status - Error codes

### Blue LED

Status	1	2	3	4	5	6	7	8	9	10	Error Code on Digital Key	Case	Required action
Permanent											10	Delivery condition	Start initial scan.
Fast blink											11	Initial scan is in progress	--
1 blink											12	Opening width during learning drive not ok	Opening width needs more than 400mm per leaf. Check distance!
2 blinks											13	SLT or jumper settings are ok	--
3 blinks											14	Max door leaf weight is exceeded or door is blocked	Check the weight of the door and if the door is blocked.
5 blinks											15	SLT or jumper settings not ok	Check SLT potentiometer or Jumper position.













Note: Blue LED information are only shown in installation mode! SLT right or jumper right position.

### Yellow LED





Permanent											109	Not referenced	Activate sensor.
Fast blink											145	Key switch error	Check position of key switch or cable connection.
1 blinks											120	Over load cut off	Check mechanical installation.
2 blinks											110	Outside sensor activated	Check outside sensing area or adjustment of sensor.
3 blinks											111	Inside sensor activated	Check inside sensing area or adjustment of sensor.
6 blinks											100	Power supply error	Check wiring and connections.
7 blinks											142	Door is locked	Check the electromechanical lock.
8 blinks											130	Door is blocked	Check for present obstacles.
9 blinks											121	Door can not close	Check for mechanical problems.
10 blinks											101	Door is closing	--

Note: Yellow codes are disturbances which in some cases may get reset by the system automatically.


 Red LED


Status	1	2	3	4	5	6	7	8	9	10	Error Code on Digital Key	Case	Required action
Permanent											250,240 251,252 253,254	Critical error on control board	To be replaced.
Permanent blink											238 237 236	Master/slave or digital key communication error	Check the connections.
Fast blink											239	Factory reset (after pressing reset for 15 sec)	–
1 blink											233,202	Safety circuit not closed. Stop and ESC or bridges.	Check connections of safety circuit
2 blinks											200	Failure of Outside sensor test	Check outside sensor, cable and connectors.
3 blinks											201	Failure of inside sensor test	Check inside sensor, cable and connectors.
4 blinks											210,211	Failure of battery test	Check battery capacity and voltage.
5 blinks											223,224	No motor-starting-current	Check motor and connection.
6 blinks											230 231 232	Key switch self-test and ESC and stop	Check key switch and stop and ESC or bridges.
7 blinks											245	Software version not ok	Check if master & slave have the same software version.
8 blinks											241	Broken motor cable	Check motor cable and connection.
9 blinks											243	Puls generator defect or cable damaged	Check puls generator and cable for damages.



 Purple LED

1 blink											141	Lock is blocked	Check if lock is working or microswitch is damaged.
2 blinks											144	Locked microswitch	Check if switch is well-adjusted or damaged.
8 blinks											242	Motor starting current is too high.	Check if door is blocked.
9 blinks											244	Drive can not open	Check if blocked.

**13 - Sensors 'set up table**

Combination of sensors in European mode 	BEA IXIO DT3	BEA IXIO DT1	BEA ZEN	BEA ZENSAFE	BEA VIO DT1	Optex OA Flex
BEA IXIO DT3	✓	✓	⊗	⊗	✓	✓
BEA IXIO DT1	✓	✓	⊗	⊗	✓	✓
BEA ZEN	⊗	⊗	⊗	⊗	⊗	⊗
BEA ZENSAFE	⊗	⊗	⊗	⊗	⊗	⊗
BEA VIO DT1	✓	✓	⊗	⊗	✓	✓
Optex OA Flex	✓	✓	⊗	⊗	✓	✓

Combination of sensors in international mode 	BEA IXIO DT3	BEA IXIO DT1	BEA ZEN	BEA ZENSAFE	BEA VIO DT1	Optex OA Flex
BEA IXIO DT3	✓	✓	✓	✓	⊗	✓
BEA IXIO DT1	✓	✓	✓	✓	⊗	✓
BEA ZEN	✓	✓	✓	✓	⊗	✓
BEA ZENSAFE	✓	✓	✓	✓	⊗	✓
BEA VIO DT1	⊗	⊗	⊗	⊗	⊗	⊗
Optex OA Flex	✓	✓	✓	✓	⊗	✓

	PRG Mode Position 	Jumper Position 
Sensor Used	International Mode	European Mode
BEA IXIO DT1	IR: Output: NO	IR: Output: NC IR: Presense Time min.30s (EN16005)
BEA IXIO DT3	IR: Output: NO	IR: Output: NC IR: Presense Time min.30s Radar Output Sensor Inside: Frequency in ES/FRW
BEA ZEN	OK	Not Possible
BEA ZENSAFE	OK	Not Possible
BEA VIO DT1	Not Possible	OK
Optex OA Flex	DIP 11: OFF	DIP 11: ON

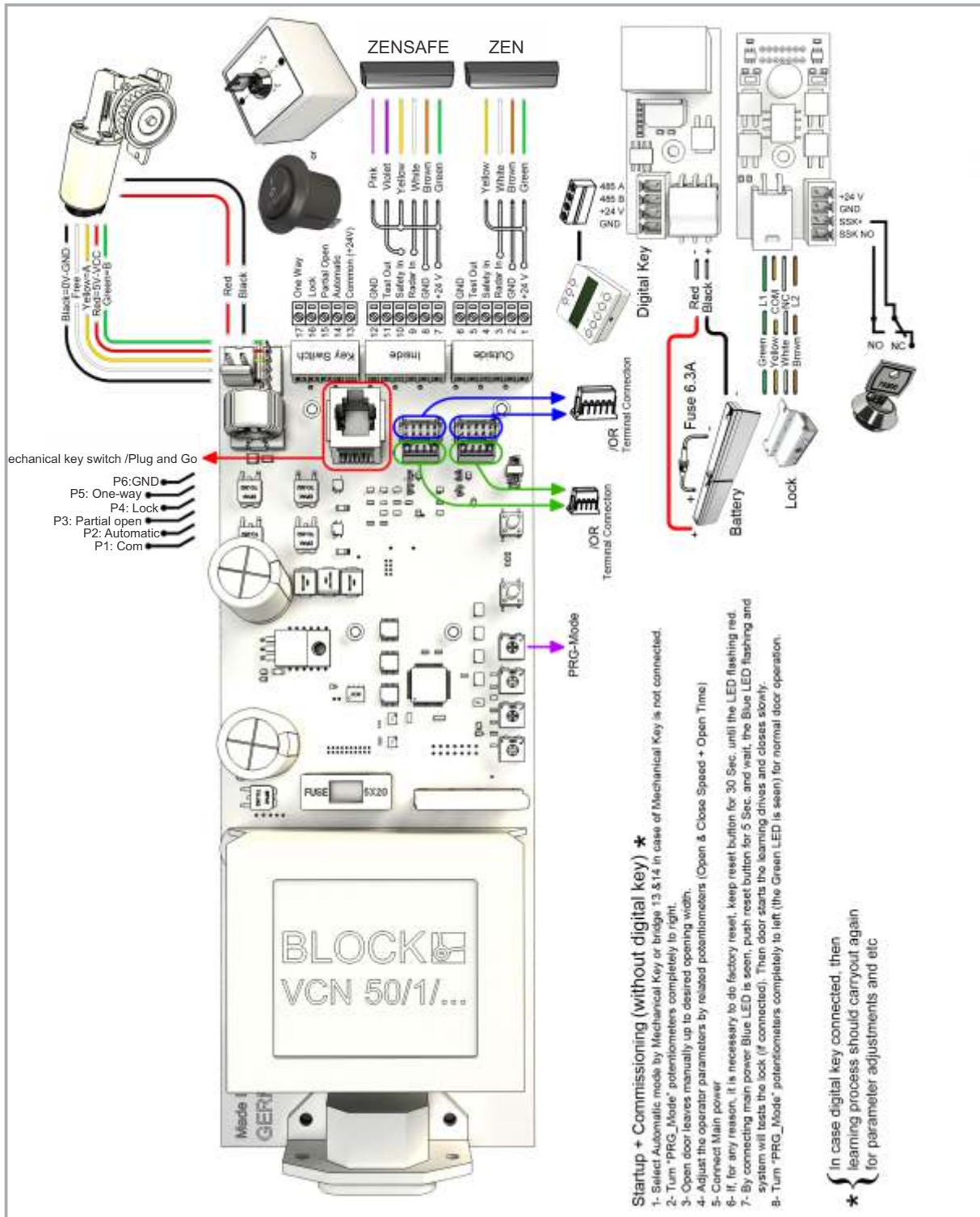
**International Mode** IR presence sensor, if available, needs to be set to Normally Open mode. System also works without a presence sensor(no test from control unit).

**European Mode** IR present sensor needs to be equipped with test signal and set to Normally Close NC.



**Important:**  
 1- To run our systems as FRW/ES version, the SLT/Mode needs to be set to EU.  
 2- The IR present sensor needs to be set to Normally Close (NC). Outside sensor needs to be set to Normally Open (NO) and the inside sensor needs to be set in Frequency Output (100Hz)

**14 - Wiring diagram**



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