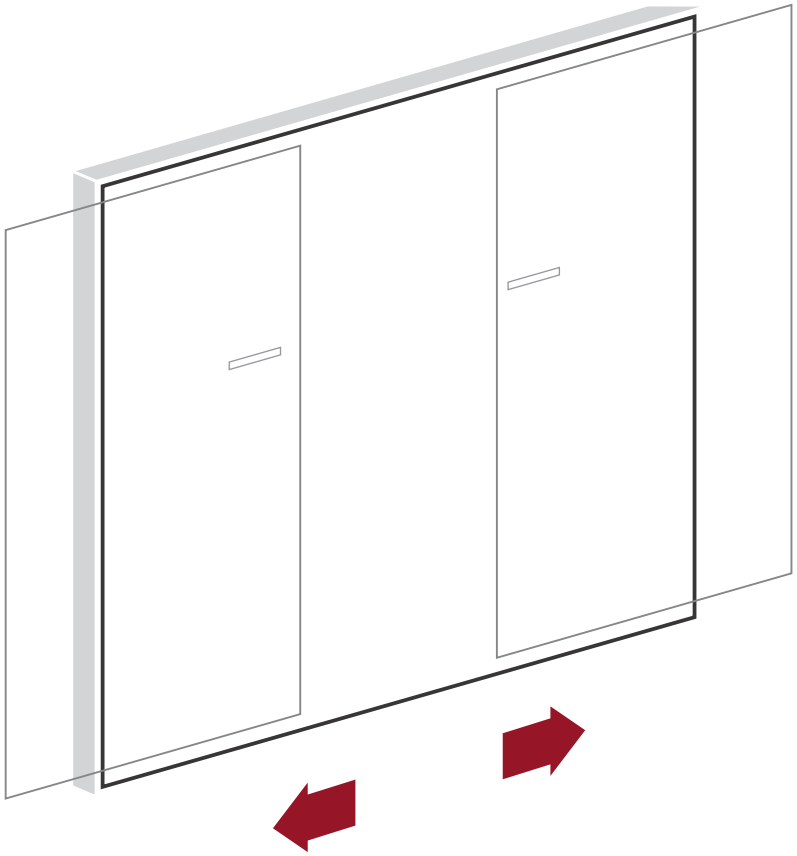
Holux

Automatic Doors



Holux X4/Holux X3

Installation Instruction

www.holux-door.de
info@holux-door.de

Contents

Declaration of CE-Conformity as per Annex IIA of the EC Machinery Directive 2006/42/EG

Producer Address	Deutschtec GmbH Am Fuchsbau 13 15345 Petershagen/Eggersdorf
Responsible for the technical documentation	Marcel Rettke
Product name	Automatic Sliding Door
Type / Year	Holux X3 | X3/U | X3/L | X3/LU | X4 | X4/U 2016

The specific product corresponds to the regulations of the following European rules:

Number	EN 16005 version: 2012
Text	Building Hardware-Powered pedestrian doors, Automatic door systems Part 1: requirements of the product and method of testing
Number	EN 16005 version: 2012
Text	Building Hardware-Powered pedestrian doors, Automatic door systems Part 2: security of automatic door systems
Number	DIN EN 61000-6-3, version: 2005
Text	EMC, transient emissions
Number	DIN EN 61000-6-2, version: 2006
Text	EMC, interference resistance
Place of the CE-mark	Yes, executed after checking the device / installation

Marker:	Deutschtec GmbH
Place, date:	Petershagen/Eggersdorf, 17.03.2016
Legally binding signature:	M. Rettke Holux Am Fuchsbau 13 | D-15345 Petershagen/Eggersdorf Tel.: +49 (0)3341 30 22 4 23

The enclosures (if existing) are a part of this declaration. This declaration certifies the conformance with the above mentioned regulations. However, it does not grant qualities. Please pay attention to the general security advices and the product documentations provided.

Definition of Signs


Warning: Possible danger of injury to people.


Warning: Danger of electric shock (danger of injury or death).Works carried out by electrician.


Caution: Possible damage to the sliding door or operator.


Note: Symbol of notice

Safety Instructions

- The pedestrian sliding door operator model Holux is designed & manufactured according to valid laws, regulations, guide lines & standards.
- The national guide lines & standards for automatic doors must be considered.
- The pedestrian automatic sliding door operator model Holux is specially designed for normal service with conjunction to automatic pedestrian sliding door and must be installed indoors.
- Any misuse or use for any other applications is not allowed and the manufacturer has no liability against the installer and the user - the installer or the end user shall bear the responsibility.
- Using, servicing and maintenance of the pedestrian automatic door operator model Holux must be in accordance with the manufacturer's instructions. The manufacturer has no liability with regard to the misuse of the operator.

NOTE: Only the approved certified doors can be used as a sliding door on an escape route.

General Safety Regulations


Persons or objects should not be in the way of opening leaves.


Persons (standing still) or objects should not be in the way of closing leaves.


For maintenance, the main power must be unplugged and while the cover of the operator is open, it should not be reconnected.


Power supply must be connected at all times. (Should not be disconnected at nights).


Power supply must be connected at all times. (Should not be disconnected at nights).


Caution must be used when handling sharp edges of profiles during installation.

Safety Instructions

Please read installation instruction before starting installation.

Check the risk assessment for further risks.

The installation, commissioning and maintenance of Holux operator must be carried out only by authorized specialists.

Power supply

Earth contact connection on the building site is requested for installing Holux operator.

The main power supply must be disconnected prior to installation until the installation is completed.

Explanation of the Terms and Abbreviations

National regulations for automatic doors & electric security must be considered.

Place of installation must be examined for evenness of the floor, the strength of structure etc.

Measure the height & width of the place of installation and check it with the measurements of the door leaves & the length of the operator to make sure that it corresponds.

Emergency Stop Button (optional)

In case of any emergency situation, emergency stop button is available beside the door for stopping the operator´s functioning. By pressing the emergency stop button, Holux operator will stop the moving leaf/leaves immediately either in opening or closing direction until releasing the button. By releasing the emergency stop button, Holux operator will reset the system automatically and the door will function normally after reset procedure.

Acoustic Emission

Working frequency of the electromotor of this product is 30 kHz that is out of human hearing threshold. Moreover, maximum noise generated by this system in most unfavorable condition is 55 db that will be reduced to less than 25 db in normal working condition. So this rang would not cause any hearing loss and would not be harmful in any case.

General Specification

Pedestrian Automatic Sliding Door Operator

Holux sliding door operator is designed to drive sliding door leaves conforming below details:

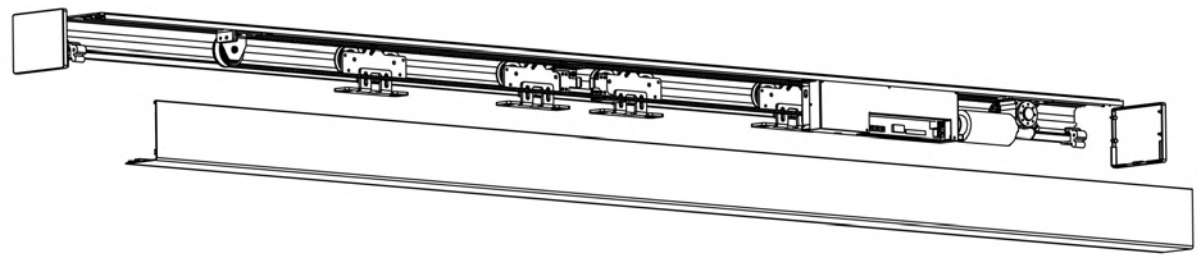
	X3	X3/U	X4	X4/U
Input power	230V-AC (50/60 Hz)	115V-AC (50/60 Hz)	230V-AC (50/60 Hz)	115V-AC (50/60 Hz)
Fuse protection input power primary	250V - TA 2.2L	250V - TA 2.2L	250V - TA 2.2L	250V - TA 2.2L
Fuse protection input power secondary	250V - TA 6.3L	250V - TA 6.3L	250V - TA 6.3L	250V - TA 6.3L
Max Leaf Weight Single	1 × 150 kg	1 × 150 kg	1 × 200 kg	1 × 200 kg
Max Leaf Weight Double	2 × 100 kg	2 × 100 kg	2 × 150 kg	2 × 150 kg
Passage Width	800 mm ~ 3000 mm	800 mm ~ 3000 mm	800 mm ~ 3000 mm	800 mm ~ 3000 mm
Opening Speed	100 ~ 550 mm/sec (adjustable)	100 ~ 550 mm/sec (adjustable)	100 ~ 550 mm/sec (adjustable)	100 ~ 550 mm/sec (adjustable)
Closing Speed	100 ~ 500 mm/sec (adjustable)	100 ~ 500 mm/sec (adjustable)	100 ~ 500 mm/sec (adjustable)	100 ~ 500 mm/sec (adjustable)
Hold-Open Time	0 ~ 30 sec (adjustable)	0 ~ 30 sec (adjustable)	0 ~ 30 sec (adjustable)	0 ~ 30 sec (adjustable)
Max Power Consumption	200 Watt	200 Watt	250 Watt	250 Watt
Protection Degree	1	1	1	1
Protection Class	IP 20	IP 20	IP 20	IP 20
Temperature Range	-15º to +50ºC	-15º to +50ºC	-15º to +50ºC	-15º to +50ºC
Possibility of using Elctromechanical lock	Yes	Yes	Yes	Yes

Holux control unit has selectable operation modes of:

- Automatic
- Partial Open (i.e. 60% of opening width)
- Lock
- One way
- Full Open

Parts

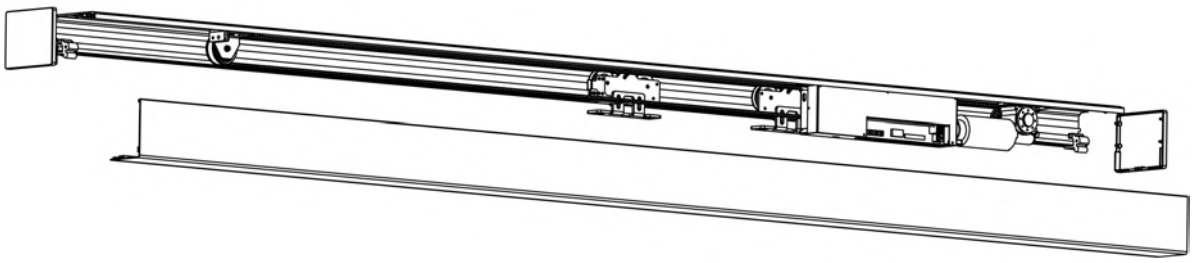
Pedestrian Automatic Sliding Door Operator



Consists of:

- Rail Profile
- Cover Profile
- Track Profile
- Track Rubber Profile
- 4 Hangers
- Geared Motor
- Control Unit
- 2 Stopper
- Idler Pulley
- Toothed Belt
- Side Cover
- Belt Clamp
- Mechanical Key Switch

Single-leaf Sliding Door Operator



Consists of::

- Rail Profile
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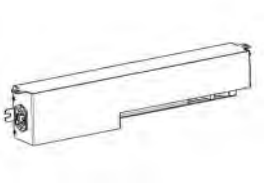
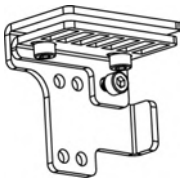
- Belt Clamp
- Mechanical Key Switch

Sliding Operator Parts

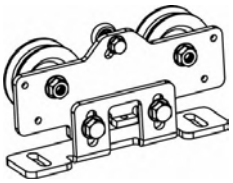
Control unit



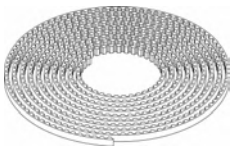
Belt Clamp



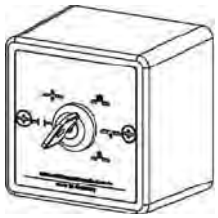
Hanger



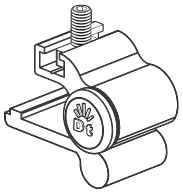
Timing Belt



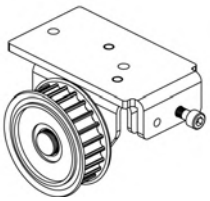
Key Switch



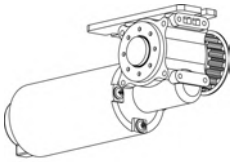
Stopper



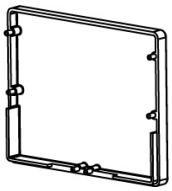
Idler Pulley



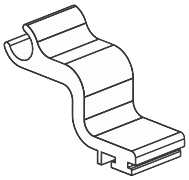
Geared Motor



Side Cover



Bracket of Cover Lock

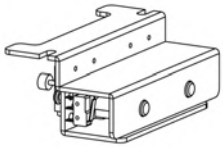


Floor Guide

Optional Accessories

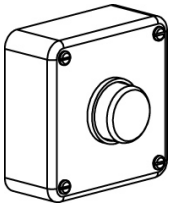
Combined Sensor

Electromechanical Lock

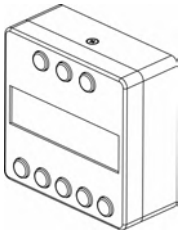


Emergency Stop

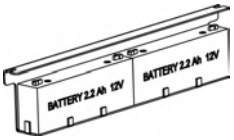
Start Push Button



Digital Programme Switch

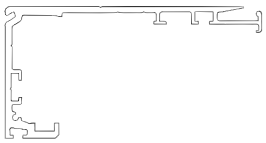


Battery

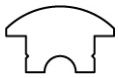


Profiles

Rail Profile

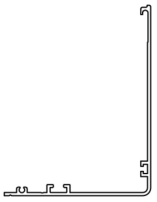


Track Profile



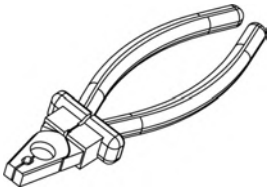
Rubber Profile

Cover Profile

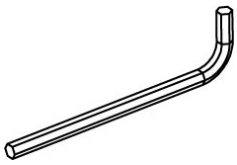


Necessary Tools

Pliers

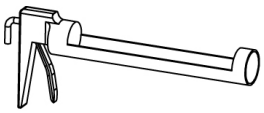


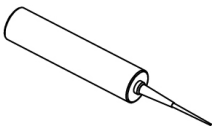
Allen Key 4&5



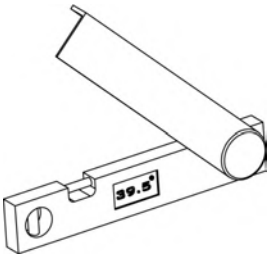
Spanner

Silicon Sealant

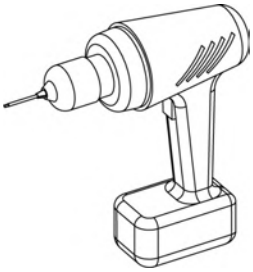




Protractor & Level

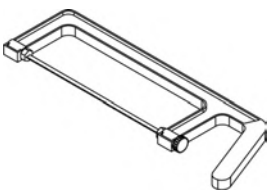


Cordless Drill



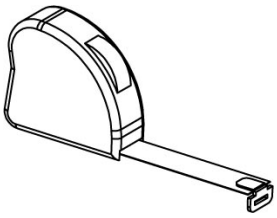
Drill

Hacksaw

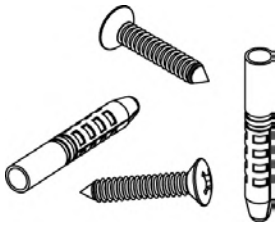


Marker Pencil/Pen

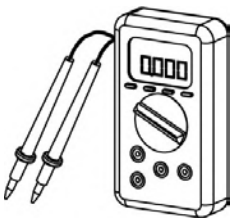
Tape Measure



Screws

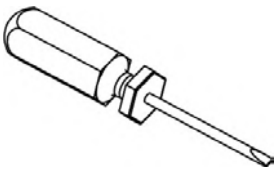


Multi Meter

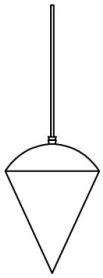


Ladders

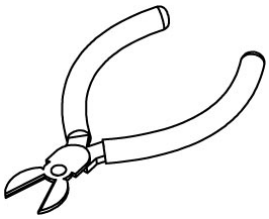
Screwdriver



Spirit Level



Wire Cutter

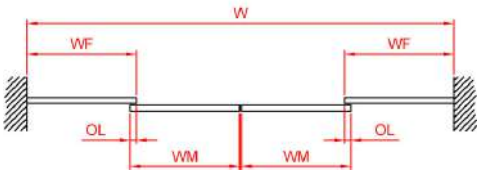


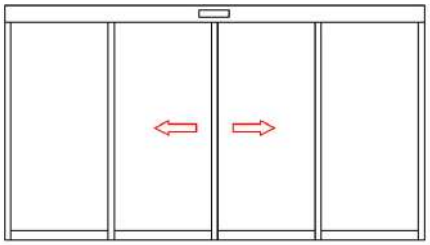
Installation Steps

- Specify the place for the installation of the rail
- Install the rail.
- Mount the components onto the rail.
- Install the fixed leaves (if requested).
- Install the moving leaves onto the rail.
- Do mechanical adjustments.
- Install electrical & electronic components.
- Do the wiring.
- Do the commissioning.
- Install the main cover.
- Do sensor adjustment.
- Install the side cover.

Door leaves installation options

Double-leaf sliding door + fixed side screen leaf (both side wall)

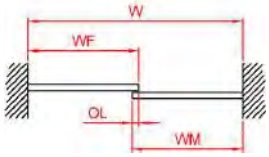


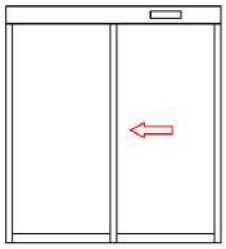


$$WF = \left(\frac{W + 2 \times OL}{4}\right) - 20\ mm$$

$$WM = \left(\frac{W + 2 \times OL}{4}\right) - 10\ mm$$

single-leaf sliding door + fixed side screen leaf (both side wall)

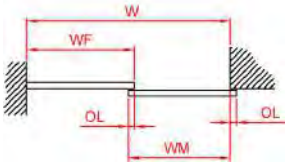


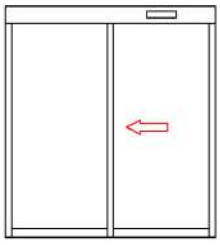


$$WF = \left(\frac{W + OL}{2}\right) - 20\ mm$$

$$WM = \left(\frac{W + OL}{2}\right) - 10\ mm$$

single-leaf sliding door + fixed side screen leaf

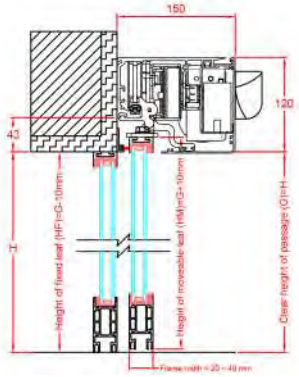




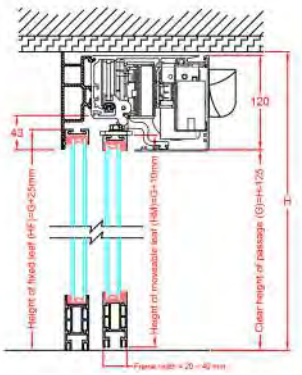
$$WF = \left(\frac{W + 2 \times OL}{2}\right) - 20\ mm$$

$$WM = \frac{W + 2 \times OL}{2}$$

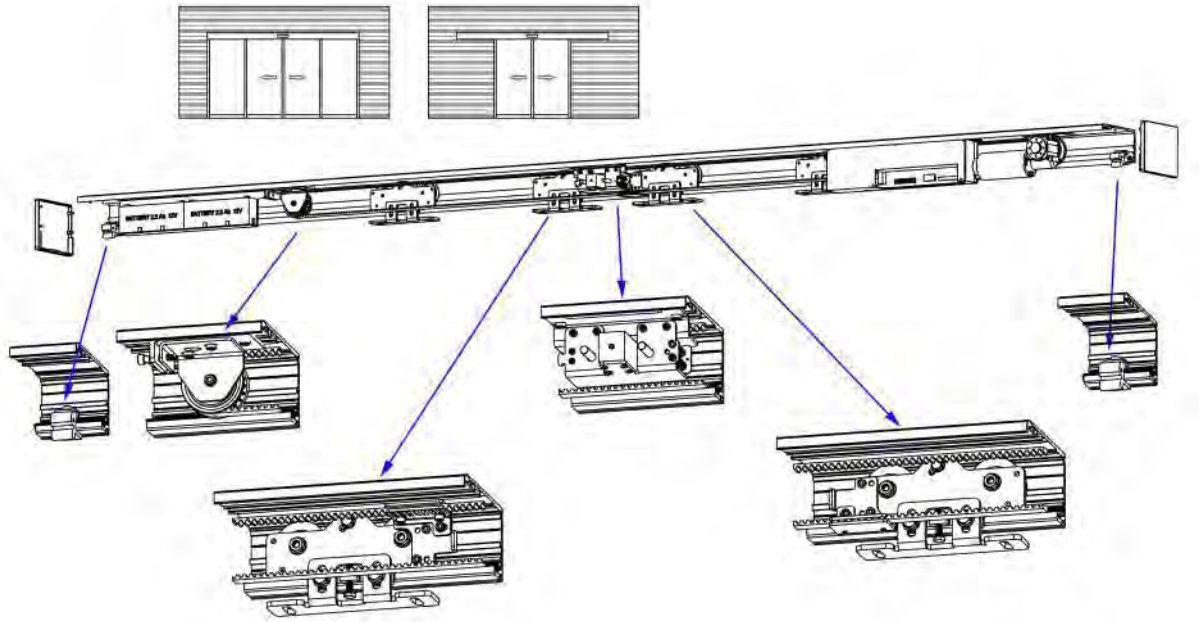
header installation side view



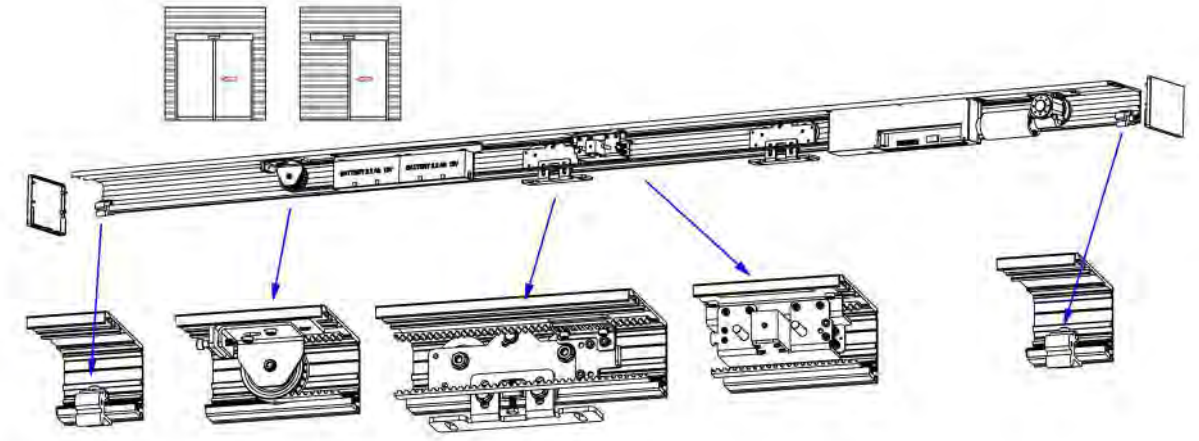
lintel installation side view



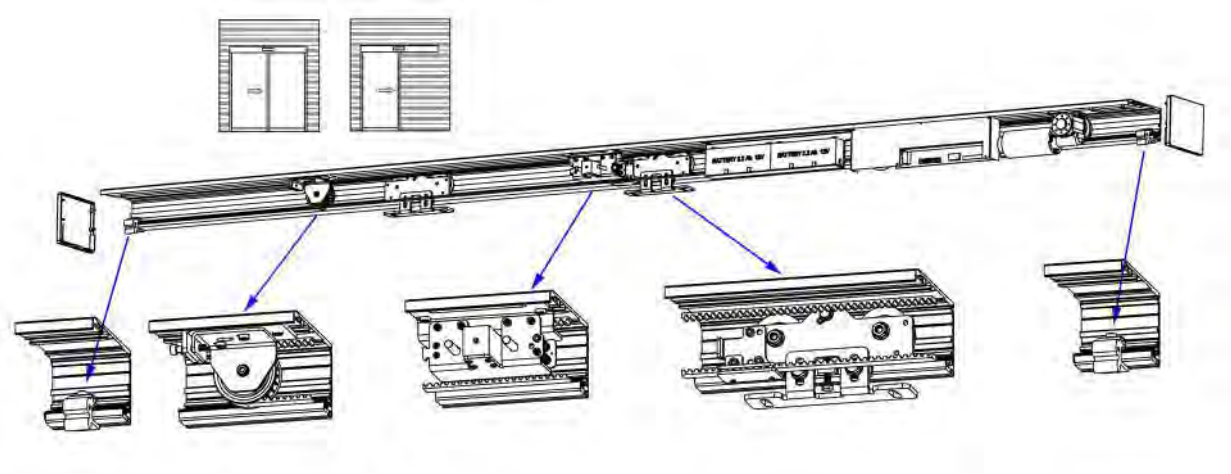
Concept of Double - leaf Sliding Doors



Concept of Single - leaf Sliding Doors ER

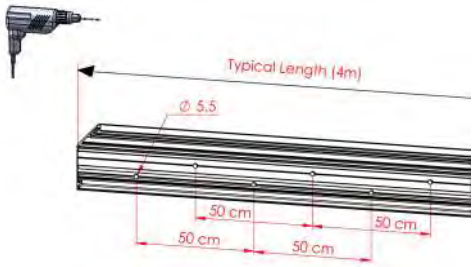


Concept of Single - leaf Sliding Doors EL

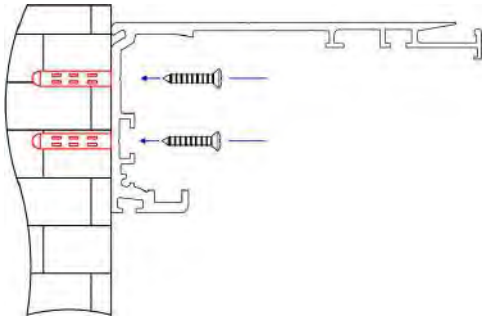


Installation of the Rail Profile

For the mounting of the rail profile on to the surface, the middle of the rail must be figured out and holes must be drilled like the side image.

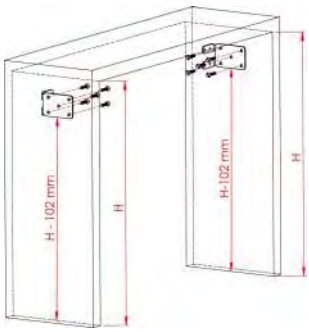


The position of the holes must be marked on the mounting surface by holding the rail against it. The marks on the surface must be drilled out and wall plug inserted. By holding the rail onto the surface (positioned on the wall plug) the corresponding screws can be inserted and fastened.

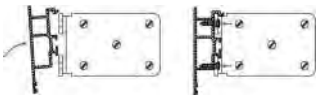


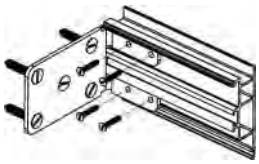
Installation of the Base Profile (optional)

First, mount and screw base profile brackets in accordance with the total door height. Bracket positions must be aligned and be in the same height.



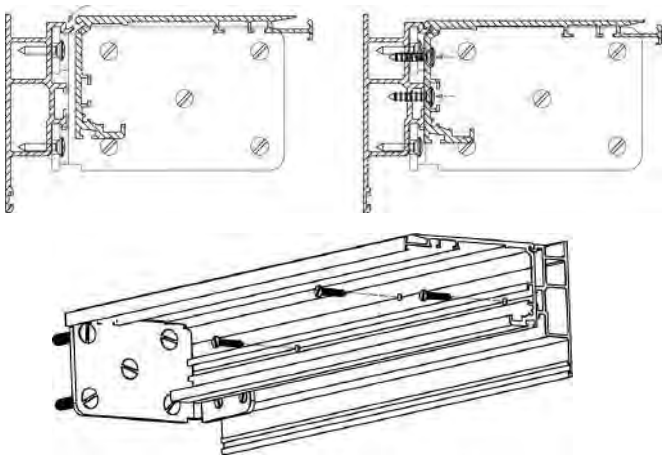
Emplace base profile after fixing the brackets like the below images. Then, fasten the base profile to brackets by 4 screws for each side.





Installation of the Base Profile and Rail Profile

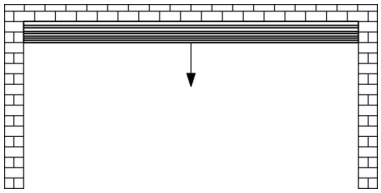
Set the rail profile on base profile and fix it by screws through holes on rail profile.

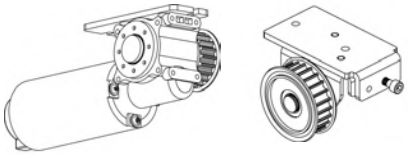


Note: In case there is no base profile for lintel installation, a support profile or surface should be prepared for rail support - such as steel rectangular tube.

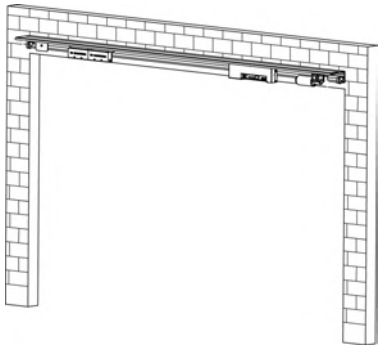
Mounting of some Main Parts on the Rail Profile

After installation of the rail base and by marking the center of the rail, you are now able to mount parts including motor, idler pulley and lock.



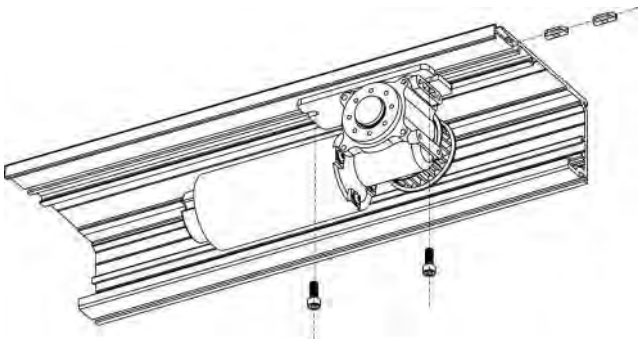


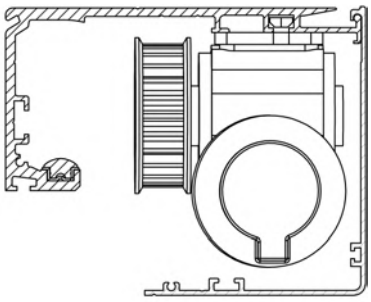
Note: The timing belt can be cut to match the table.



Installation of Gear Motor

Mount geared motor on the rail profile by fastening two M6 screws through bottom plate on special nuts in the specified rail track.

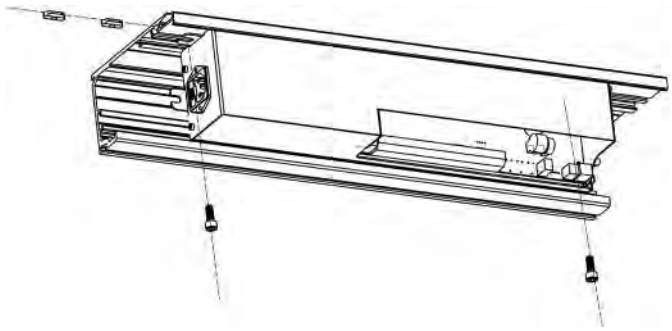


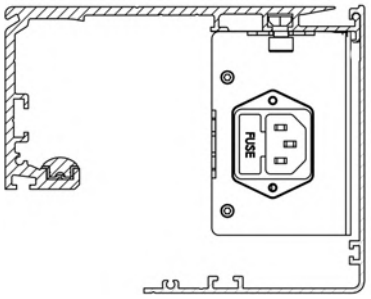


side view of the mounted motor

Installation of Control System

Main controller of the system (control system) is installed and fixed on the rail by using screw M6.



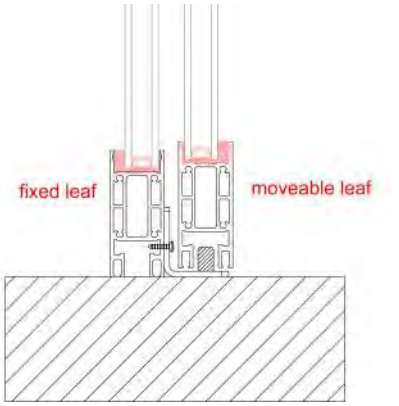


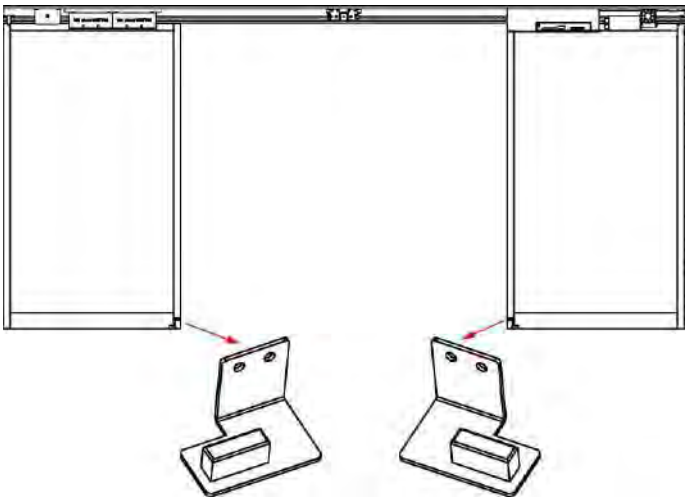
Side view of the mounted control system

Fixture of the Floor Guide

Main controller of the system (control system) is installed and fixed on the rail by using screw M6.

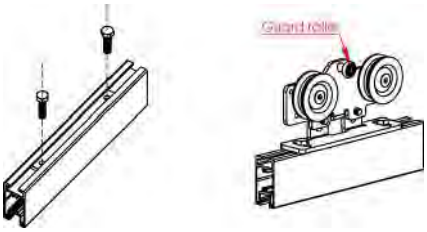
Note: Floor guide will differ in different frame systems.



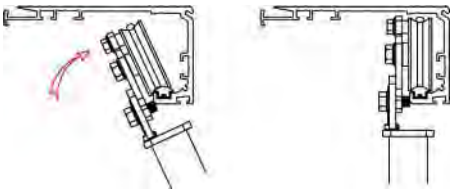


Fixture of Hangers on the Moveable Leaves

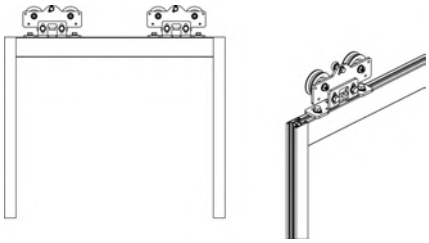
Hangers must fix on door leaves to connection plate.



Layout and way of positioning the hanger on the rail.



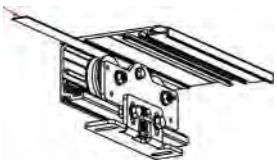
After fixing the hangers on door leaves, hangers´ height and position must be to reach the right angle of door leaves and make door leaves´ movement smooth.



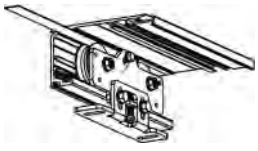
Adjusting the Hanger Holder

(to prevent disengagement of hanger from the rail profile)

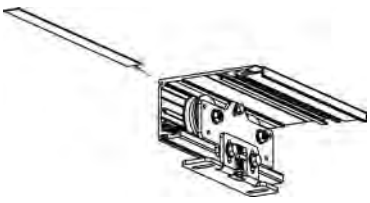
By losing the especial screw of guard roller on hanger, lead the guard roller downward. Put the index plate with certain thickness (0.5 mm) in the appointed location in the figure.



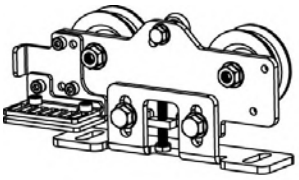
Lead the guard roller on hanger upward.

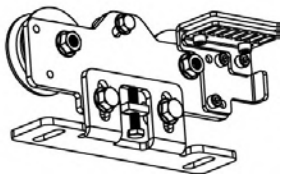


Finally, firm the especial screw of the guard roller and take the index plate out.

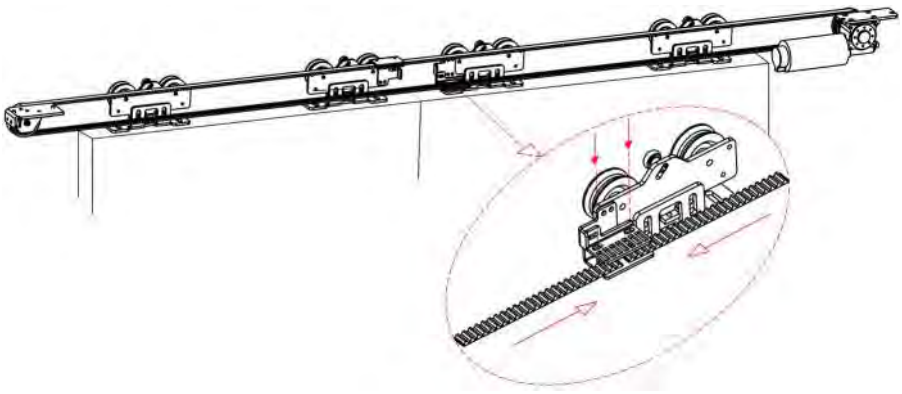


A view of hangers with down and up belt fixtures



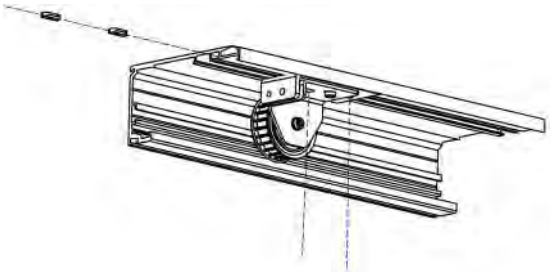


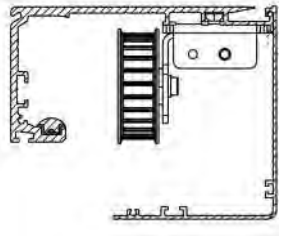
Lay the timing belt on motor pulley and idler pulley and bring two ends together on belt clamp. Then, fix it to hanger by fastening screws on belt clamp.



Installation of Idler Pulley and Timing Belt Adjustment

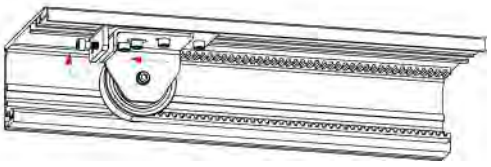
Mount idler pulley on the rail profile by fastening two M6 screws on special nuts in the specified rail track.





The shape and position idler pulley are shown in this figure.

Fasten a screw near the idler pulley on left side. Loosen idler pulley´s screw on rail profile. By one hand, apply a screwdriver to lever idler pulley on the base of the fastened screw and then, by the other hand, fasten idler pulley´s screws on rail as soon as enough belt tension is reached.

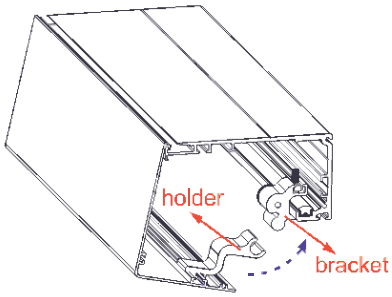


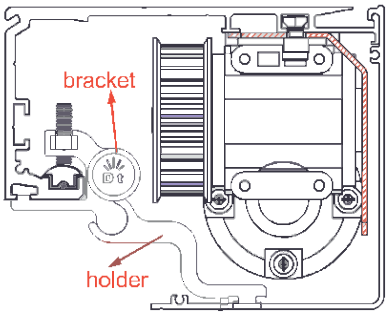
Installation of Cover Clip

In the first place, slide the holders in the specified groove on the cover. Before fixing the holders be sure that the holders are both in the right needed length. Then fix the holders after cleaning the area on the cover.

Mount the stopper at the rail profile by using the provided M6 set screw, move it in the exact position and tighten up the screw gently. Close the cover carefully and check the position of the holders and stoppers. Adjust the stopper if necessary – if the parts are one upon another.

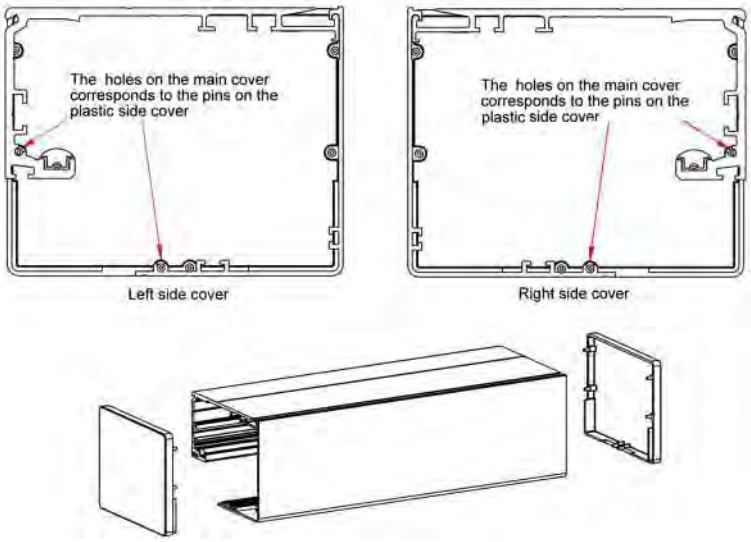
It is very important that the cover is in closed position and parallel. Otherwise, adjust the stopper until it is upright.





By opening and closing for several times, you can easily check if the holder is fixed properly and will last in its position.

Installation of Side Covers



setting plastic side covers to related holes

Startup and Commissioning of the Operator

Holux X3 & Holux X4 non-escape version

Note:

This manual must be read thoroughly and comprehended by the installer before any operation. Otherwise, the system will not operate, also it might damage the components or parts and also it is possible to be dangerous. Please follow the instructions carefully and step by step.

For connecting the power, you need to work with high voltage. Therefore, only trained people are allowed to connect the power to this control unit.

You should be able to connect and disconnect the power of the control unit within the startup procedure. After the completion of door setting, you must make sure that you have a per- manent power connection and your power supply will not disconnected during the night, especially if you use battery and/or lock.

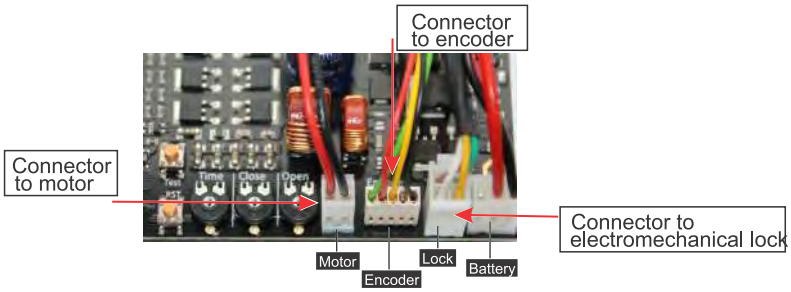
It is installer´s responsibility to make sure that the complete installed door conforms to all norms, standards, building rules and regulations of the country of installation. And it is installer´s responsibility to make sure related settings of the door such as opening speed, closing force, hold-open time, sensor settings etc. conform to related norms, standards, building rules and regulations of the country of installation.

During the installation and commissioning, please make sure that no person is in the range of mechanical operations of the door or inside the sensor range near the door or passing by the door.

Note: Before starting, make sure the power is not connected.

1 - Install control unit on rail (no need to remove cover)

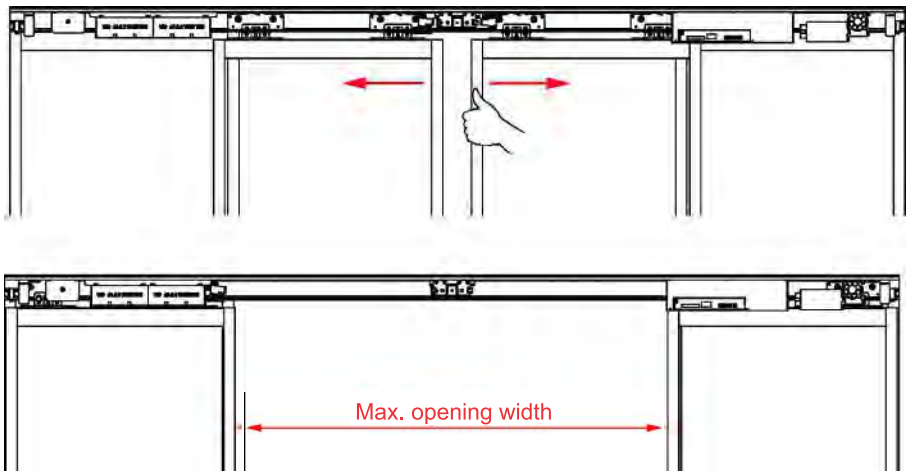
2 - Connect the motor & encoder cable to the controller and also connect the lock cable if you wis to use electromagnetic lock.



3 - Make a short circuit (bridge) between terminal 21 & 22. This jumper is for setting system on automatic state. If the key switch is installed, this jumper is not required but the key switch must be set on automatic position for startup.

4 - Make a short circuit (bridge) between terminal 26 & 27. This jumper is for emergency button connection. In case the emergency stop button is installed, this jumper is not required.

5 - Manually open the door leaves up to the desired opening width.



6 - Adjust the related potentiometers of open time, close speed and open speed on desired value clockwise direction to increase and counter clockwise to decrease.

7 - Put the jumper to the left position as shown in the picture.

8 - Connect system´s main power.

9 - If, for any reason, it is necessary to do factory reset (erasing old data), keep reset button for 30 seconds until you see red light of LED flashing.

10 - After connecting the power you will see the blue light of LED. Push the reset button for 5 seconds and wait. You must see the blue light flashing and then the system will test the lock (if there is a lock) and you can hear the sound of testing the lock (open close).Now the door will start to do the learning drive (measuring the weight and width of the door automatically) and will close very slowly! Just you need to wait till the door close completely.

Note:
If the door jump starts at high speed and stops after a short distance please check the encoder connection. It is possible that connector at motor side is plugged into wrong position. Turn by 180 degree.

Note:
If the opening way of the door is less than 1000 mm or more than 3000mm (less than 500 mm or more than 1500 mm for one leaf) the learning drive will fail!

Note:
If the mechanical installation is too bad or the door leaves are very heavy the learning drive can be failed.

11 - When the door is closed completely, push the test button. Then, the door will open and you can see the opening speed. If necessary, you can change the speed. Push the test button for second time. Then, the door will close you can see the closing speed. If necessary, you can change the speed.

Note:
You can do this trial drives only for 5 times and in maximum 30 second and if this is not enough, you need to do the learning drive from the beginning.

Note:
Please note that system will enumerate the opening width which manually opened in phase 5 as the determined opening width for door operation.

12 - Put the jumper to the right position as shown in the picture. Push the test button and the door will open and after passing the hold-opening time, the door will close. You can do this step as many times as it is necessary for doing the mechanical adjustment.

Note:

When the jumper is not at the left position, the changes of the value of potentiometers will not be considered by micro controller and therefore, you cannot change the speeds or opening time unless you follow step 7 from beginning.

Wiring and sensors installation

Before starting the installation, you need to decide which type of sensor you want to install. Please note that this control unit is able to work with a wide range of door sensors with/without testing signal and it is the installer´s responsibility to use suitable sensors which match with all rules, norms, standards and regulations in the installation country/area.

There are 2 general possibilities for sensors:

A: Activation command NO (normally open) and also safety command NO (normally open) without test signal.

B: Activation command NO (normally open) and safety command NC) normally close) with test signal for safety sensors which is the normal type for EU countries.

Please follow the interaction according to the type of sensor and if you wish to use European type (B), jump from 16A to the 16B.

Note:
You must follow the sensor manufacturer´s instructions carefully.

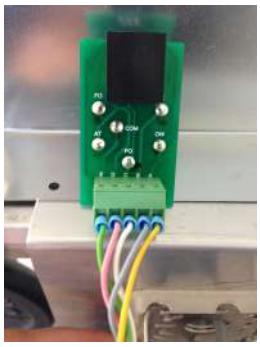
If a Plug and Go version is used (See Picture)
it is necessary to remove the Bridge from connector 21 and 22 and no Wiring is necessary. Plug and Go is only suitable in international mode!

13 - A) Disconnect the power from the source and make sure the battery is disconnected.

14 - A) Make sure the jumper is in right position

15 - A) If mechanical key switch is required , remove the bridge between no 21 & 22 terminals and connect the mechanical key switch as follow:

21 of control unit = command/connect to E key switch
22 of control unit = automatic/connect to D key switch
23 of control unit = winter open/connect to C key switch
24 of control unit = lock/connect to B key switch
25 of control unit = one-way/connect to A key switch



16 - A) If digital programmer is required connect it as follow:

31 of control unit = GND/connect to GND digital programmer
30 of control unit = +24V/connect to +24V digital programmer
29 of control unit = B data/connect to B digital programmer
28 of control unit = A data/connect to A digital programmer

17 - A) If emergency stop button is required, remove the bridge between 27 & 26 terminals and connect the emergency stop button NC.

18 - A) Connect outside activator sensor as follows:

1 of control unit = +24V /connect to the sensor VCC
2 of control unit = GND /connect to the sensor GND
3 of control unit = +24V /connect to the sensor command COM
4 of control unit = sensor input /connect to the sensor command NO.

19 - A) Connect inside activator sensor as follows:

9 of control unit = +24V /connect to the sensor VCC
10 of control unit = GND /connect to the sensor GND
11 of control unit = +24V /connect to the sensor command COM
12 of control unit = sensor input /connect to the sensor command NO.

20 - A) Connect 1st safety sensor as follows:

8 of control unit = GND /connect to the sensor GND
5 or 13 of control unit = +24V /connect to the sensor VCC
5 or 13 of control unit = +24V /connect to the sensor command COM
6 of control unit = sensor input /connect to the sensor command NO.

21 - A) If you want to use mechanical safety key for opening the lock, you have to connect it to the terminal 19 and 20 NO momentary command.

22 - A) If you want to connect remote control receiver for unlocking, please make sure that the receiver has a momentary NO command. It must run with 24V DC and consume not more than 100 mA. Connect it as follows:

19 of control unit = +24V/connect to the receiver command COM
20 of control unit = sensor input/connect to the receiver command NO

23 - A) Connect the battery if it is required.

24 - A) Connect the power and set the sensors according to the sensor manufacturer´s instruction.

Wiring and Sensors´ Installation - EU-Version

13 - B) Disconnect the power from the source and make sure the battery is disconnected.

14 - B) Make sure the jumper is at middle position.

15 - B) If mechanical key switch is required, remove the bridge between no 21 & 22 terminals and connect the mechanical key switch as follows:

21 of control unit = command/connect to E key switch
22 of control unit = automatic/connect to D key switch
23 of control unit = winter opren/connect to C key switch
24 of control unit = lock/connect to B key switch
25 of control unit = one way/connect to A key switch

16 - B) If digital programmer is required connect it as follows:

31 of control unit = GND/connect to GND digital programmer
30 of control unit = +24V/connect to +24V digital programmer
29 of control unit = B data/connect to B digital programmer
28 of control unit = A data/connect to A digital programmer

17 - B) If emergency stop button is required, remove the bridge between 26 & 27 terminals and connect the emergency stop button NC.

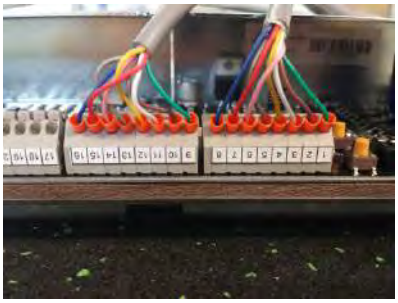
18 - B) Connect outside combine activation and safety sensor as follows:

1 of control unit = +24V /connect to the sensor VCC
2 of control unit = GND /connect to the sensor GND
3 of control unit = +24V /connect to the sensor activation command COM
4 of control unit = sensor input /connect to the sensor activation command NO
5 of control unit = +24V /connect to the sensor safety command COM
6 of control unit = sensor input /connect to the sensor safety command NC
7 of control unit = test + /connect to the sensor test +
8 of control unit = test- /connect to the sensor test-

19 - B) Connect inside combine activation and safety sensor as follows:

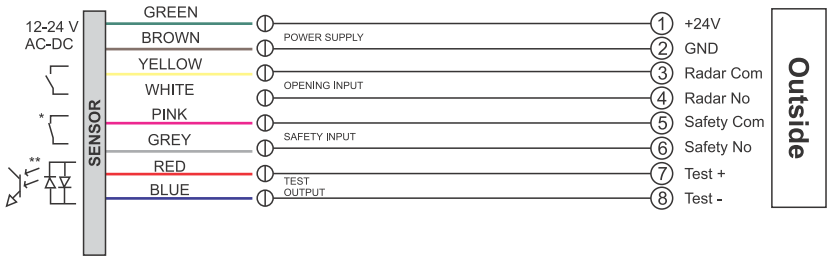
9 of control unit = +24V /connect to the sensor VCC
10 of control unit = GND /connect to the sensor GND
11 of control unit = +24V /connect to the sensor activation command COM
12 of control unit = sensor input /connect to the sensor activation command NO
13 of control unit = +24V /connect to the sensor safety command COM
14 of control unit = sensor input /connect to the sensor safety command NC
15 of control unit = test + /connect to the sensor test +
16 of control unit = test- /connect to the sensor test-

Example

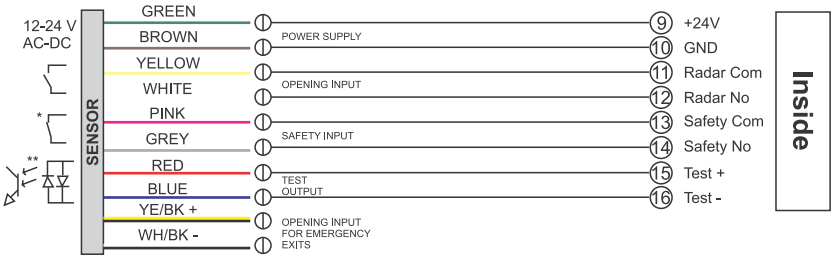


BEA IXIO-DT1 sensor

Holux controller



Holux controller



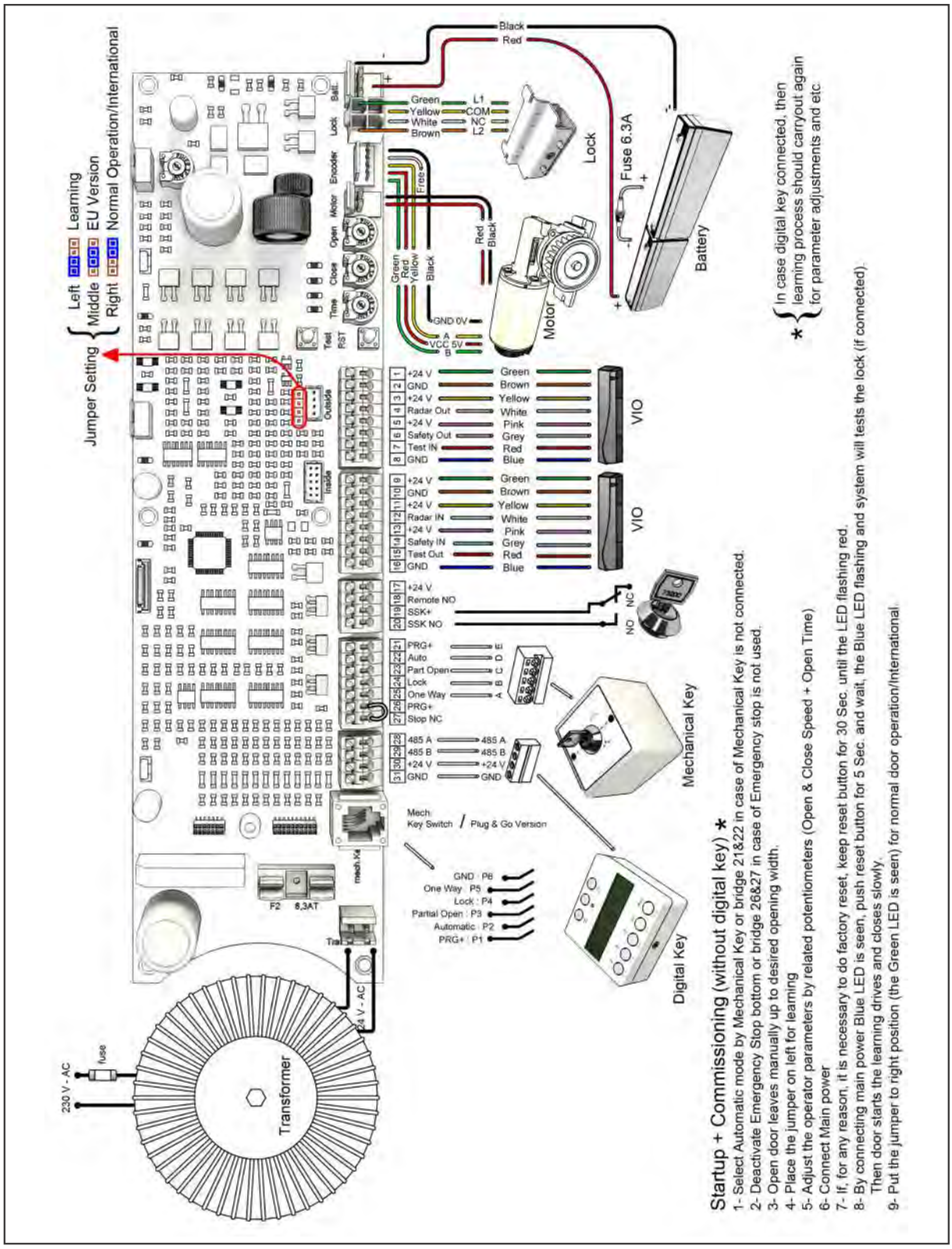
20 - B) If you want to use mechanical safety key for opening the lock, you have to connect it the terminal 19 and 20 NO momentary command.

21 - B) If you want to connect remote control receiver for unlocking, please make sure that the receiver has a momentary NO command. It must run with 24V DC and consume not more than 100 mA. Connect it as follows:

19 of control unit = +24V/connect to the receiver command COM
20 of control unit = sensor input/connect to the receiver command NO

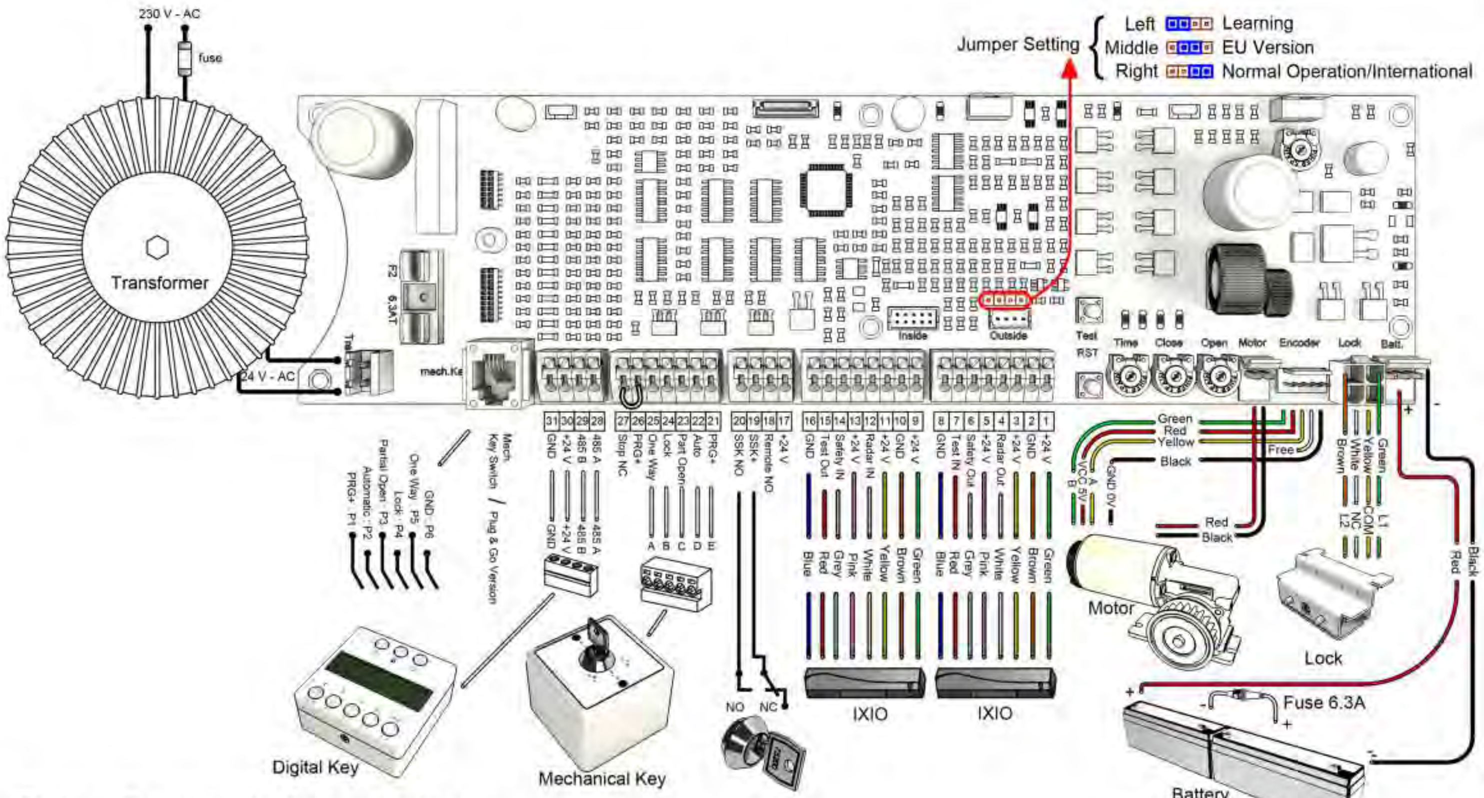
22 - B) Connect the battery if it is required.

23 - B) Connect the power and set the sensors according to the sensor manufacturer´s instruction.



Startup + Commissioning (without digital key) *

1- Select Automatic mode by Mechanical Key or bridge 21&22 in case of Mechanical Key is not connected.
2- Deactivate Emergency Stop bottom or bridge 26&27 in case of Emergency stop is not used.
3- Open door leaves manually up to desired opening width.
4- Place the jumper on left for learning
5- Adjust the operator parameters by related potentiometers (Open & Close Speed + Open Time)
6- Connect Main power
7- If, for any reason, it is necessary to do factory reset, keep reset button for 30 Sec. until the LED flashing red.
8- By connecting main power Blue LED is seen, push reset button for 5 Sec. and wait, the Blue LED flashing and system will tests the lock (if connected).
Then door starts the learning drives and closes slowly.
9- Put the jumper to right position (the Green LED is seen) for normal door operation/International.



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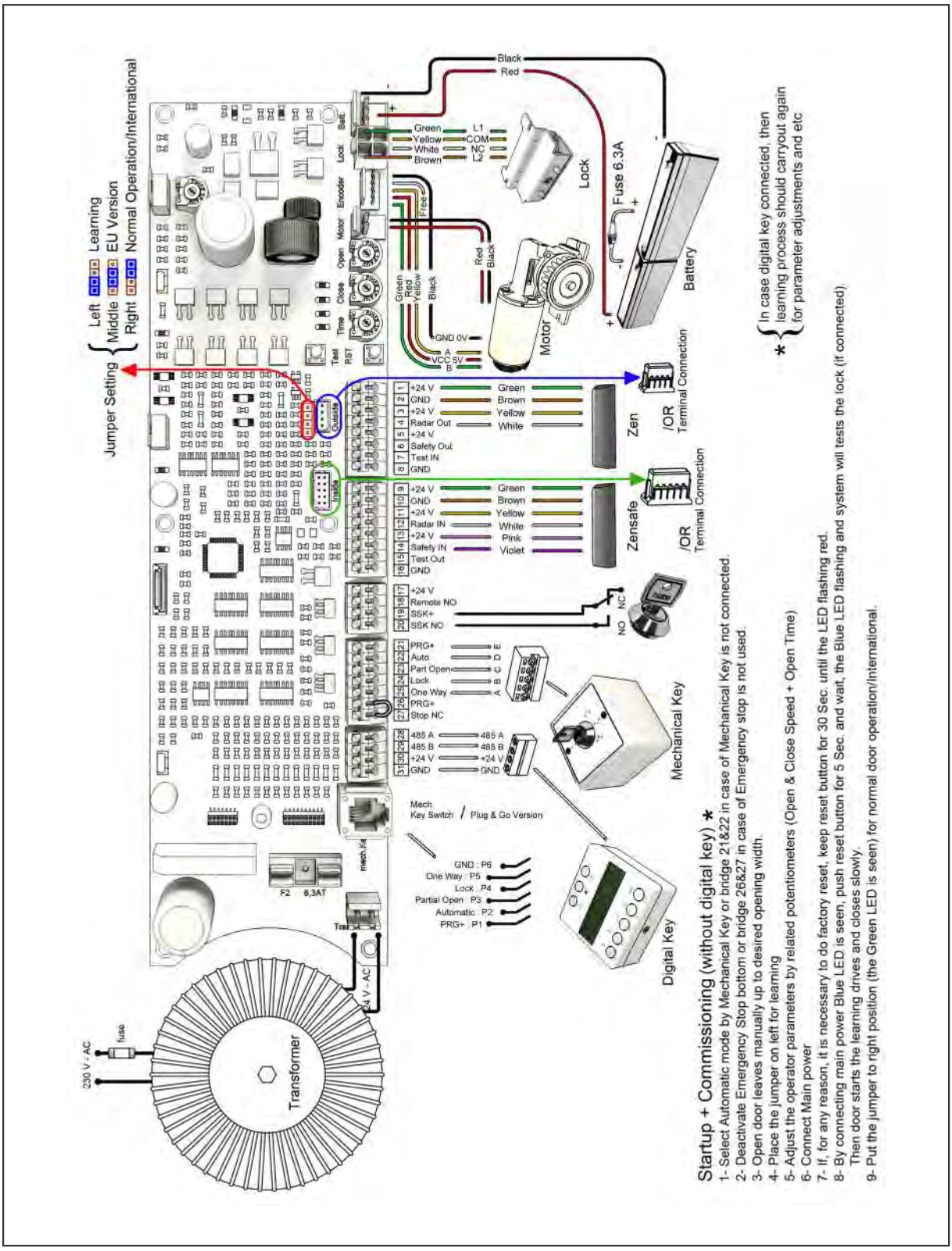
* In case digital key connected, then learning process should carryout again for parameter adjustments and etc


Jumper Setting
Left Learning
Middle EU Version
Right Normal Operation/International
Transformer
230 V - AC
fuse
24 V - AC
F2 6,3AT
Mech. Key Switch / Plug & Go Version
GND : P6
One Way : P5
Lock : P4
Partial Open : P3
Automatic : P2
PRG+ : P1
Digital Key
Mechanical Key
Battery
Fuse 6.3A
Lock
Motor
Zen
Zensafe
/OR Terminal Connection
Black
Red
Green
Yellow
White
Brown
L1
COM
NC
NO
Red
Black
Green
Red
Yellow
Black
GND 0V
A
VCC 5V
B
+24 V
GND
Radar Out
Safety Out
Test IN
Radar IN
Safety IN
Test Out
Remote NO
SSK+
SSK NO
PRG+
Auto
Part Open
Lock
One Way
Stop NC
485 A
485 B
Pink
Violet
In case digital key connected, then learning process should carryout again for parameter adjustments and etc
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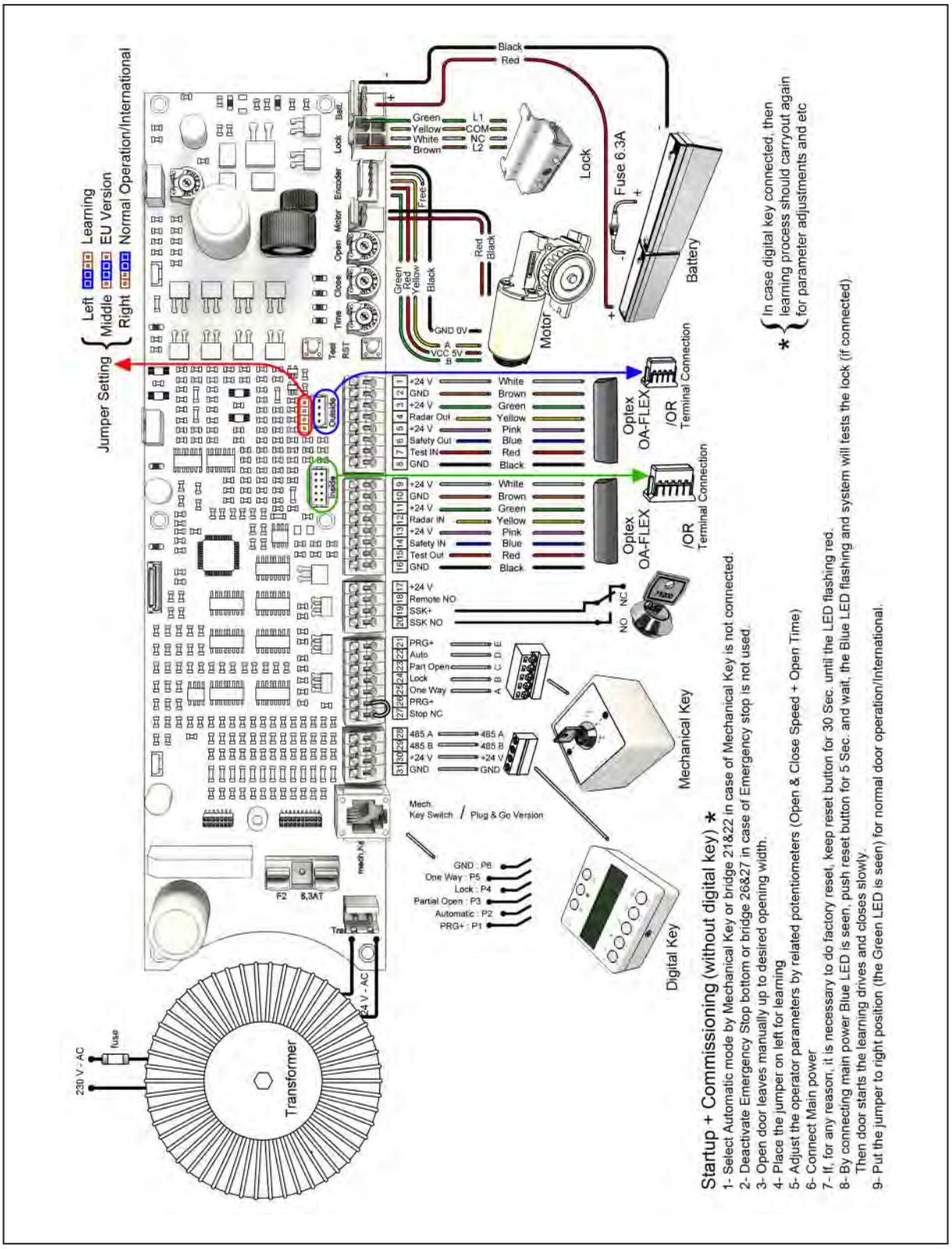
Jumper Setting
Left Learning
Middle EU Version
Right Normal Operation/International
Black
Red
Green
Yellow
White
Brown
L1
COM
NC
L2
Lock
Fuse 6.3A
Battery
Motor
Red
Black
Green
Red
Yellow
Black
GND 0V
A
VCC 5V
B
Free
Optex
OA-FLEX
/OR
Terminal Connection
+24 V
GND
Radar Out
Safety Out
Test IN
Radar IN
Safety IN
Test Out
Remote NO
SSK+
SSK NO
PRG+
Auto
Part Open
Lock
One Way
Stop NC
485 A
485 B
Mechanical Key
Digital Key
Mech.
Key Switch / Plug & Go Version
GND : P6
One Way : P5
Lock : P4
Partial Open : P3
Automatic : P2
PRG+ : P1
F2 6,3AT
24 V - AC
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fuse
Transformer
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Initial Scan Guide

In case of any problems during initial scan, please find a list of possible solutions below.

1- In working state, if the door does not open completely before reaching the clear opening width, and starts closing
2- In working state, if the door does not close completely and starts to open.

a. It is mandatory that the door leaves are mounted perfectly and well adjusted. If the seal brushes are adjusted too strong, the floor guide or any other mechanical behaviours adjusted too strong, it can create that problem. There is a simple way to increase the low power limit. During the initial scan(see Page 18), you just need to press gently against the direction it moves. It gives the slow speed a bit more power.

b. Check adjustment of the height of the leaves. In case of an uneven floor, the leaf may touch the floor during the drive, increase the mechanical problems and cause the learning drive to fail. Adjust the leaves and start the learning cycle again.

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