



Installation and user guide  
for the garage drive for sectional and tilt-up doors

**UNIVERSAL**  
**600N SPEED | 1000N | 1000N SPEED**





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## 1. Safety



**Read the instructions carefully and follow all installation and safety instructions.**

**Keep the instruction. Failure to follow these instructions can present risk to life and health or damage to property.**

1. The drive is designed and manufactured in accordance with applicable standards and regulations.

To properly mount the drive, the installer must comply with the standards and regulations in force in the country where the appliance will be installed.

2. Unskilled personnel or people who do not know the health and safety standards applicable to the installation of automatic gates and doors may not under any circumstances perform system installation or commissioning.

3. Persons who install or service the device without complying with all applicable safety standards shall be liable for any damage, injury, costs, expenses or claims of the injured person as a result of improper installation of the system.

4. In order to increase safety, we recommended to install the photocells. Although the drive is equipped with an overload system, added of photocells will significantly improve the safety of automatic garage doors.

5. Before leaving or entering the garage, make sure that the garage door is completely open and stationary.

6. After CLOSE command, make sure that the garage door is completely closed and stationary.

7. Do not hold your hands near the drive and garage door when operating the drive.

8. The obstacle detection system is designed to work only on stationary objects. When the garage door contacting with a moving object, it can cause serious personal injury and / or property damage.

9. This device is not intended for use by children or persons with limited physical, sensory or mental abilities, unless they have been supervised or trained in the use of the device by a person responsible for their safety. Children should not play with the device.

10. If the supply cord is damaged it must be replaced by manufacturer, its service agent or qualified persons in order to avoid a hazard.



**Used electrical products should not be disposed of with municipal waste. Throw them into specially marked containers.**

11. Do not allow children to play garage door control units. Keep away remotes control from children.

12. Watch the movable gate until it is fully opened or closed. Make sure there are no

people or animals nearby.

13. Be careful when opening the gate - an open gate that has damaged or weak springs may fall down sharply.

14. Check the installation regularly, especially wires, springs and mountings for signs of use and damage. In a situation where it is necessary to repair or adjust the gate - do not use it. Using an incorrectly balanced or damaged door can cause personal injury.

15. Once a month check obstacle detection function to work properly. Place an obstacle with a height of min. 5 cm and close the gate - the drive should detect it and the gate should stop or go back. If necessary, adjust the overload force and check again, as improper adjustment can pose a hazard when using the door.

16. Familiarize yourself with the instructions before releasing and using the gate manually.

17. Please check the informations of regulating the gate and drive.

18. Turn power supply off while cleaning or other maintenance.

19. The manual should contain details regarding the installation of the drive and related components.

## 2. Drive description and functions

### 1. Regulation of overload force

When the digit 1 appears on the display, it means that the minimum overload force is set. We can increase the overload force to 5.

### 2. Regulation of the drive speed

When the display is set to 8, the drive operates on 80% of the maximum value speed. When the display is set to A, the drive operates at a maximum speed of 160 mm / s or 200 mm / s.

### 3. Setting the 0 opening height of the gate after detecting the obstacle

means that the gate is fully opened after detecting an obstacle, while the setting from 1 to 9 means partially opening the gate. If you set 1, gate after detecting an obstacle will open to 1/10 its own height, when you set the 9, gate will open to 9/10 its own height.

### 4. Partial opening of the gate

0 means disabled function. We can choose the height of the door opening from 1 to 9.

### 5. Remote control buttons recognition function

0 means that all the buttons on the remote, controls one drive. 1 means that one button on the remote controls one drive.

### 6. Setting the maximum number of programmed remote controls

We can set numbers from 1 to 9 or A, where A means the maximum number of remotes to programming - 50 pcs. We can reduce the number of programmable remotes by setting the number from 1 to 9, where 1 means 5 pilots (1x5) and 9 means 45 pilots (9x5).

## **7. Maintenance signaling**

The drive after the specified number of cycles indicates the need for its maintenance. The display will show the symbol „b” and the LED lighting will flash 10 times.

## **8. Obstacle detection**

Drive stops or retreats if sensing resistance in its path. Thanks to this function, we can protect children, pets and other things from being crushed by the gate.

## **9. Soft start / soft stop function**

The reduced speed of moving the gate up and down at the beginning and end of each cycle reduces the stress of the gate and drive to extend the service life and makes for quieter working.

## **10. Auto closing**

This function provides home security, automatically closing the gate after entering or leaving the garage.

## **11. Automatic adjustable opening and closing forces**

The drive force for various stages of gate movement is automatically set during the drive configuration and is constantly updated. The drive force is automatically adjusted in the appropriate range.

## **12. Electronic limit positions**

Setting the electronic limit positions is quick and easy, you only need to control the configuration from the drive panel.

## **13. Additional connectors**

Optionally, we can connect: photocells, additional receivers, wired and wireless wall switches, signal lamps and pass door protection.

## **14. LED lighting**

The lighting switch on for each cycle for 3 minutes.

## **15. Connecting emergency power supply**

In the event of a power failure, the drive can be powered from the battery.

## **16. Break gear**

The brake gear is a protection against uncontrolled lowering of the gate.

## **17. Disconnecting the drive manually.**

The manual release system is used to operate the gate in the event of a power failure.

## **18. Radio control**

Rolling code technology ( $7.38 \times 10^{19}$  combinations), frequency 433.92 MHz, Transmitter, eg 4-channel, allows you to control 4 gates using one transmitter.

19. The metal bottom plate provides a strong and safer assembly.

20. UP/DOWN control buttons.

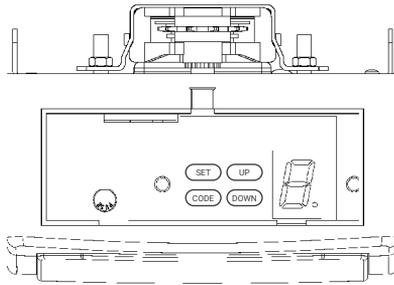


Fig. 1

### 3. Pre-installation recommendations

1. A correctly installed garage door should be manually lifted and closed without much effort. Good balance of the gate and properly mounted springs are essential for proper installation.
2. In a situation when the garage door is incorrectly mounted (opening of which requires to use of large force), the drive should not be installed.
3. Make sure that mounted locking devices have been removed from the gate before installing the device. In the opposite situation, you can lose your warranty.
4. The power supply socket must be mounted near the place where the drive will be installed.
5. There should be a gap with a minimum height of 30 mm at its nearest point between the bottom of the metal rail and the upper part of the garage door (Fig.2).



As an additional protection for the garage door, we recommend installing photocells on all installations.

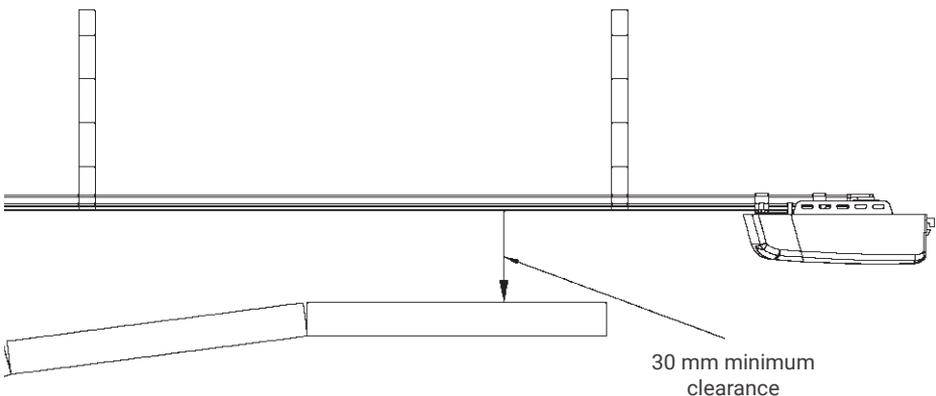


Fig. 2

## 4. Montage

### 4.1 Installation of wall bracket and handle gate

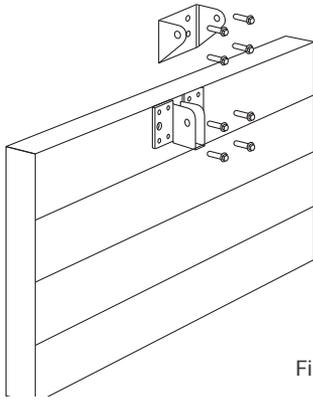


Fig. 3

#### 1. Wall bracket

Close the garage door, measure its width at the top and mark the center. Attach and mount the wall bracket on the inner wall 2cm-15cm above the gate (depending on the space available).

#### 2. Handle gate

Attach the handle door to the internal side of the door as close as possible to the top edge.

### 4.2 Folding the rail

#### 2 - elements rail

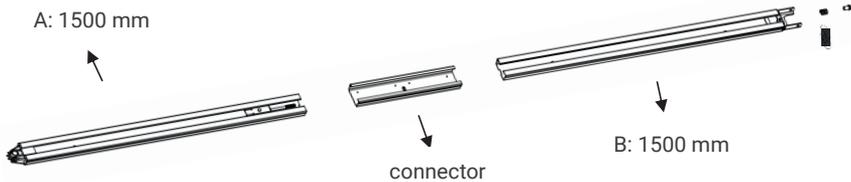


Fig. 4

#### 3 - elements rail

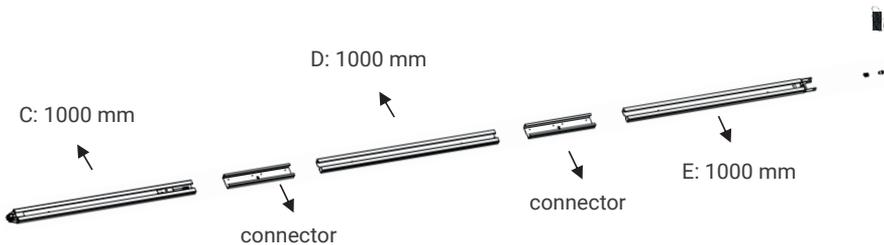


Fig. 5

**1. 2 elements rail:**

Slide rail A and B in the connector (Fig. 4).

**3 elements rail:**

Slide the rail C, D and E into the connector (Fig. 5).

2. Pull the screw F with the tensioning element to the end of the rail (Fig. 6).

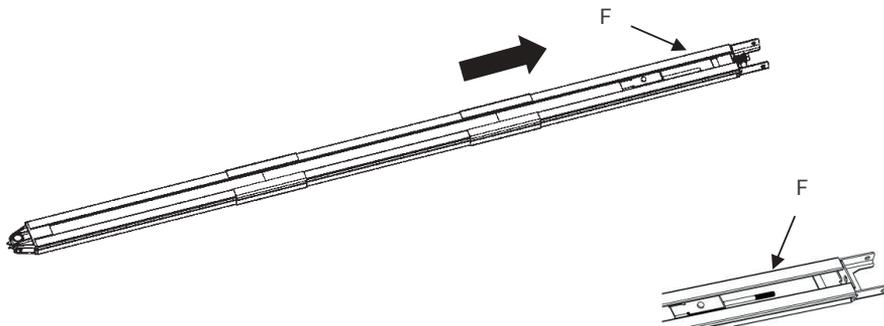


Fig. 6

3. Loosen the nut and spring as in Fig. 7.

4. Tighten the nut as shown in Fig. 8, then go to the rail assembly.

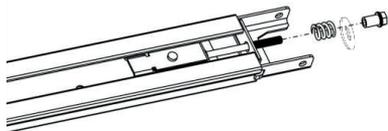


Fig. 7

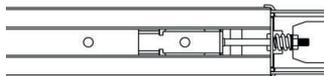


Fig. 8

## 4.3 Installation of a metal rail with a drive

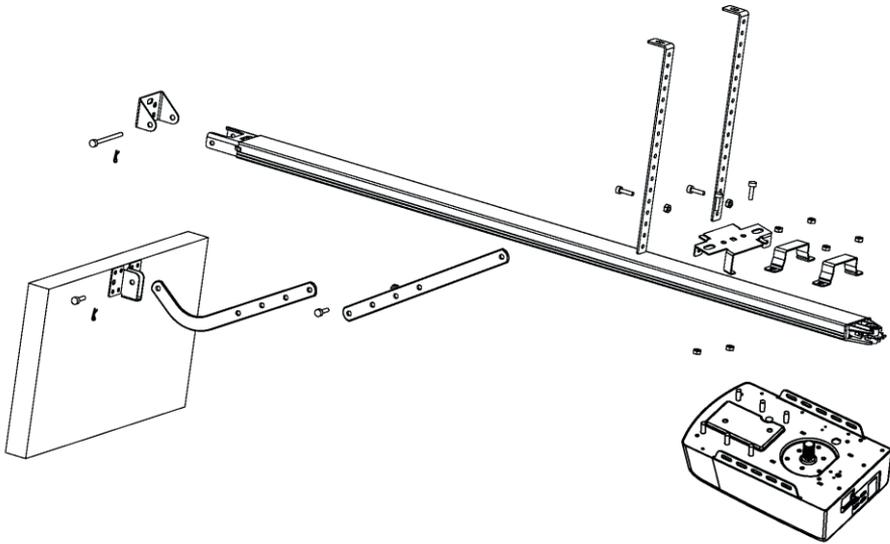


Fig. 9

### STEP 1

Fasten the drive to the rail with two U-shaped handles. Fasten the handles with the 6 mm nuts included in the set (Fig. 9).

### STEP 2

Place the rail with a drive on the garage floor, in the middle of the gate. The side without the drive should be at the gate. Lift and place the front of the rail in the wall bracket. Insert the spindle and secure it with the cotter (Fig. 9).

### STEP 3

Lift the rail with the drive so that its position will be horizontal and in the center of the gate. Mount the drive rail to the ceiling with mounting brackets (Fig. 9, Fig. 10).



**Do not let children stay near a gate, drive or ladder. It can cause serious injuries and / or damage.**

### STEP 4

Connect with screws the straight arm with the bented arm.

Place and screw the arms to the gate handle located on the upper edge of the gate, using the screws included in the set (Fig. 9, Fig. 11).

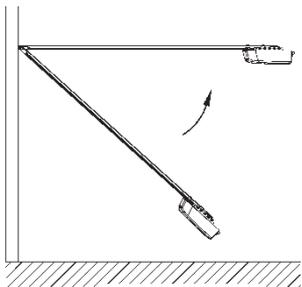


Fig. 10

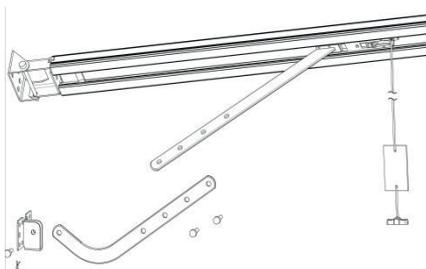


Fig. 11

## STEP 5

Open the gate until the latch locks on the belt or chain, and proceed to the drive setting.

### 4.4. Battery installation (optional)

#### Option 1 - Mount at the top of the drive

Mount the battery using the handle and nuts (Fig. 12 i Fig. 13).

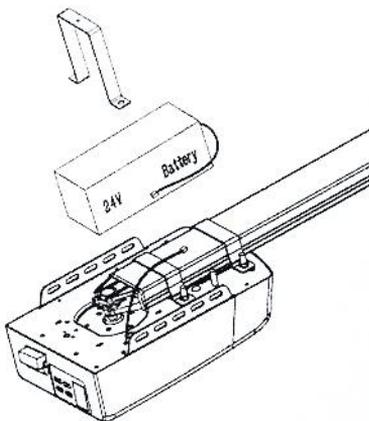


Fig. 12

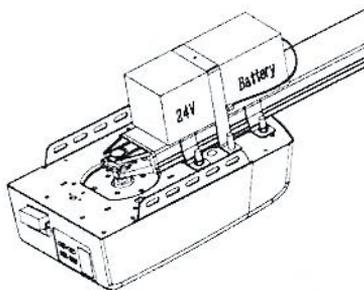


Fig. 13

#### Option 2 - Mounting on the side of the drive

Mount the battery using the handle and nuts (see Fig.14 and 15).

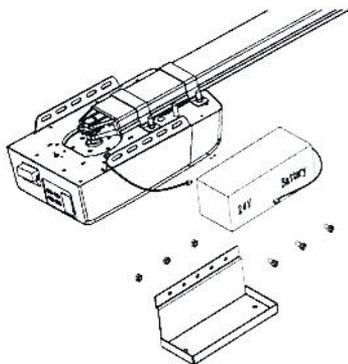


Fig. 14

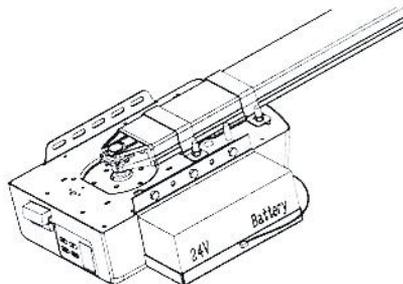


Fig. 15

## 5. Programming

### 5.1 Programming buttons



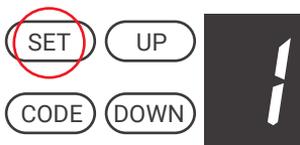
1. Short press of the SET button: removes errors and alarms from the display.
2. Long press of the SET button: enter the function setting mode.
3. Short press of the CODE button:  
Entering the remote control programming mode.  
In the function setting mode, it cause exit the mode.
4. Long press of the CODE button: deletes all programmed ones remote controls. The symbol C appears on the display.
5. Briefly pressing the UP button: The gate opens.
6. Briefly pressing the DOWN button: The gate closes.
7. Long press DOWN button: Return to factory settings, except for programmed remote controls. After a long press of the DOWN button, horizontal lines appear on the display.

### 5.2 Programming of limit positions

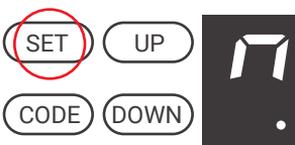


1. Press shortly UP or DOWN buttons to set precisely limit positions.
2. After setting the limit positions, the gate will automatically open and close. During this time, the drive force is set. After the movement is completed, the drive is ready for work.
3. After automatic opening and closing of the gate, the display shows the number indicating the degree of balance of the gate. 0 means balanced gate - the lower the value, the better balanced gate. It is recommended that this

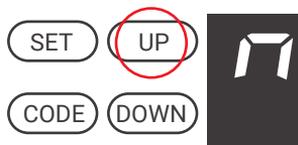
parameter be smaller than the set drive force.



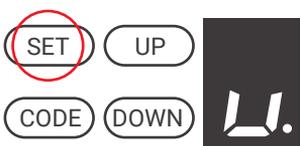
Press and hold SET button until digit 1 appear. The drive is in programming mode .



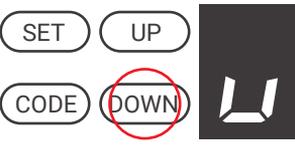
Press the SET button again. The display shows n symbol and a dot. The drive is in the limit position setting mode.



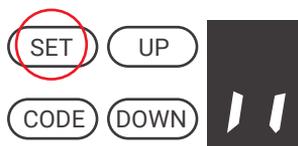
Press and hold the UP button until the gate reaches the upper limit position.



Press the SET button to confirm the upper limit position. U symbol will appear on the display.

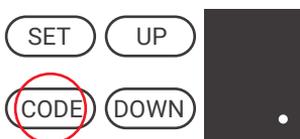


Press and hold the DOWN button until the gate reaches the lower limit position.



Press the SET button to confirm the lower limit position. The drive will perform a control cycle. The symbol // will appear on the display.

## 5.3 Programming transmitters



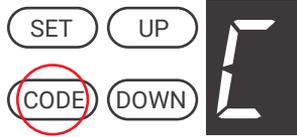
Press CODE button. A dot will appear in the bottom corner.



Press button which will be control the gate on the remote control. Wait 2 seconds, press and hold the same button. Dot will flash several times confirming transmitter programmed.

Repeat the procedure for all added transmitters.

## 5.4 Deleting programmed transmitters

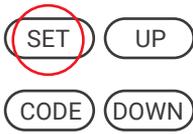


Press and hold CODE button until C symbol appear. All programmed transmitters have been deleted.

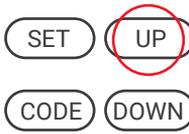
## 5.5 Regulation of obstacle detection system



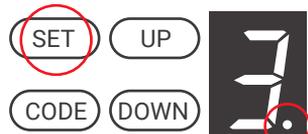
The obstacle detection is set automatically during programming limit positions. Typically, obstacle detection regulation is not necessary.



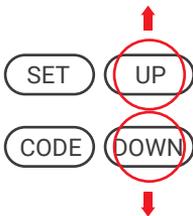
Press and hold SET button until digit 1 appear.



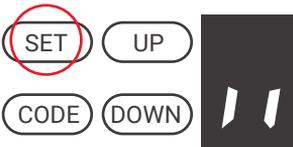
Press UP button and choose digit 2.



Press the SET button to enter the overload force adjustment mode. The currently set value will appear on the display and the dot in the bottom corner will flash.



Press UP button to increase or DOWN to decrease the overload force. The minimum value of the overload force is 1, maximum 5.

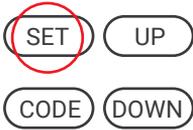


Press the SET button to confirm the settings. The symbol // appears on the display.

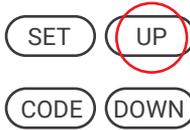
## 5.6 Regulation of drive speed



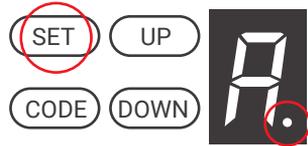
1. After changing the speed, it is necessary to set the drive limit positions again.
2. By default, the maximum speed of the drive is set.



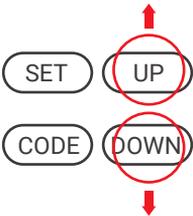
Press and hold SET button until digit 1 appear.



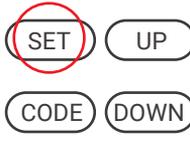
Press UP button and choose digit 3.



Press the SET button to enter the overload force adjustment mode. The currently set value will appear on the display and the dot in the bottom corner will flash.



Press UP or DOWN button to decrease the drive speed. The digit 8 indicates 80% of the maximum drive speed. The letter A indicates the maximum drive speed.

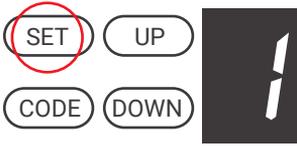


Press the SET button to confirm the settings. The symbol // appears on the display.

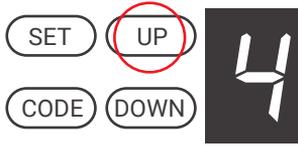
## 5.7 Time of automatic closing



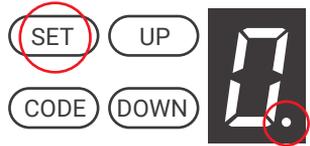
1. By default, the automatic closing function is disabled.
2. The photocells must be installed in order for the automatic closing function to work properly.
3. If the photocells detect an obstacle, the gate will not close automatically. After the set time, the drive will try to close the gate again.
4. If we stop the drive during closing, the gate will not close again automatically.



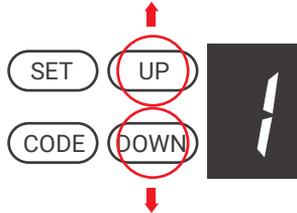
Press and hold SET button  
until digit 1 appear.



Press UP button  
and choose digit 4.



Press the SET button to enter  
the overload force adjustment mode.  
The currently set value will appear  
on the display and the dot in  
the bottom corner will flash.



Press UP or DOWN button to change  
the automatic closing time. On the screen  
numbers from 0 to 9 are visible, where:  
0 - automatic function closing is turned off,  
1 - the minimum closing time is 15 seconds,  
9 - the maximum closing time is 135  
seconds.

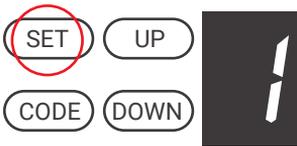


Press the SET button  
to confirm the settings.  
The symbol // appears  
on the display.

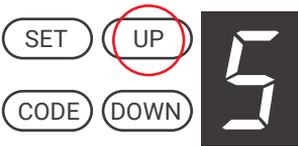
## 5.8 The options of auto closing



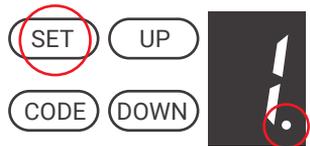
The default value is 1, which means that the gate will close automatically if it is completely open.



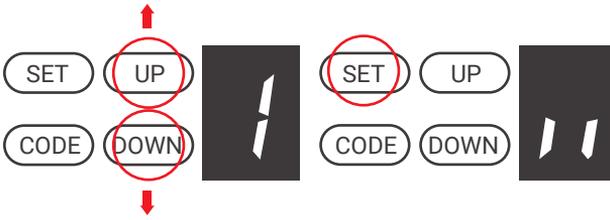
Press and hold SET button  
until digit 1 appear.



Press UP button  
and choose digit 5.



Press the SET button to enter  
the overload force adjustment mode.  
The currently set value will appear  
on the display and the dot in  
the bottom corner will flash.



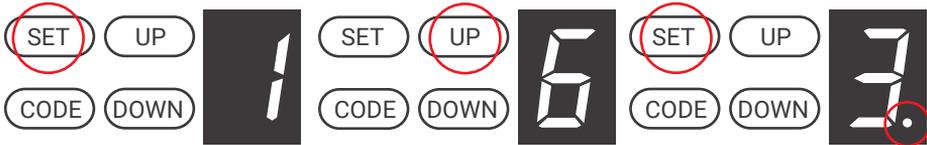
Press UP or DOWN button to change the automatic closing time.  
 1 - The gate will close automatically if it is completely open,  
 2 - The gate will close automatically from every position.

Press the SET button to confirm the settings. The symbol // appears on the display.

## 5.9 LED switch off delay



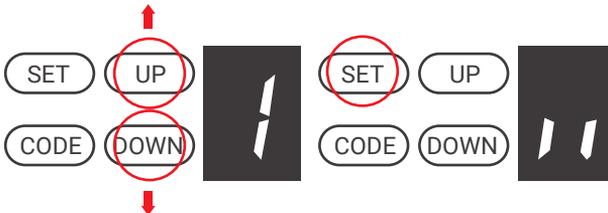
The default LED switch off delay time is set to 3 minutes.



Press and hold SET button until digit 7 appear.

Press UP button and choose digit 6.

Press the SET button to enter the overload force adjustment mode. The currently set value will appear on the display and the dot in the bottom corner will flash.



Press UP or DOWN button to set the delay time for switching off the lighting. We can set the value from 1 to 9 minutes.

Press the SET button to confirm the settings. The symbol // appears on the display.

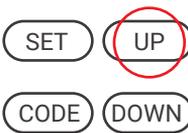
## 5.10 Setting the opening height of the gate after detecting an obstacle



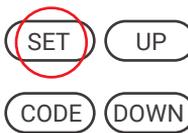
By default, the gate opens completely when the obstacle is detected.



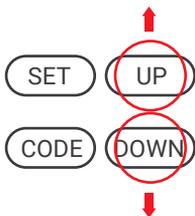
Press and hold SET button until digit 1 appear.



Press UP button and choose digit 7.



Press the SET button to enter the overload force adjustment mode. The currently set value will appear on the display and the dot in the bottom corner will flash.



Press UP or DOWN button to set the height of opening gate when obstacle is detected. On the screen numbers from 0 to 9 are visible, where:  
0 - after detecting an obstacle the gate will open completely,  
1 - after detecting an obstacle the gate will open to 1/10 its height,  
9 - after detecting an obstacle the gate will open to 9/10 its height.

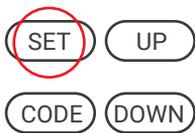


Press the SET button to confirm the settings. The symbol // appears on the display.

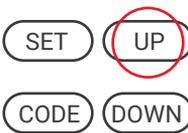
## 5.11 Partial opening of the gate



By default, the function of partial opening of the gate is disabled. After activating this function, the next button on the remote control controls the partial opening of the gate.



Press and hold SET button until digit 1 appear.



Press UP button i choose digit 8.



Press the SET button to enter the overload force adjustment mode. The currently set value will appear on the display and the dot in the bottom corner will flash.



Press UP or DOWN button to set the partial opening height of the gate. We can set the value from 0 to 9.

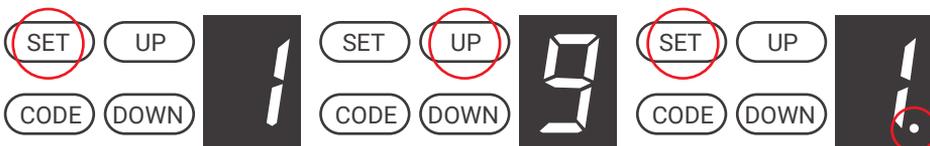
0 - function disabled,  
1-gate will open up to 1/10 of its height,  
9 - the gate will open to 9/10 its height.

Press the SET button to confirm the settings. The symbol // appears on the display.

## 5.12 Remote control buttons recognition function



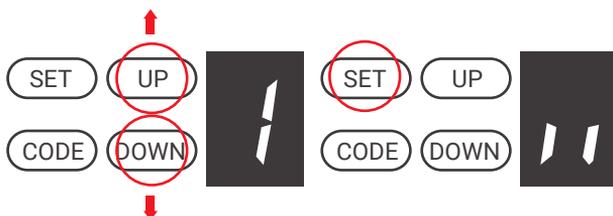
By default, the function is switched on, which means that the drive is controlled by one of the remote control buttons.



Press and hold SET button until digit 1 appear.

Press UP button and choose digit 9.

Press the SET button to enter the overload force adjustment mode. The currently set value will appear on the display and the dot in the bottom corner will flash.



Press UP or DOWN button to turn the function on or off. We can set the value 0 or 1.

0 - function disabled. The drive is controlled by all buttons on the remote control,  
1 - function enabled. The drive is controlled by one of the remote control buttons.

Press the SET button to confirm the settings. The symbol // appears on the display.

## 5.13 Setting the maximum number of programmed remote controls.



By default, the maximum number of programmed pilots is 50 pcs.



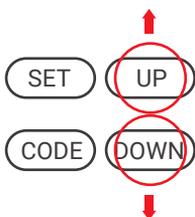
Press and hold SET button  
until digit 1 appear.



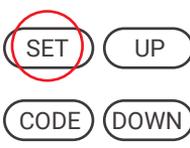
Press UP button  
and choose digit A.



Press the SET button to enter  
the overload force adjustment mode.  
The currently set value will appear  
on the display and the dot in  
the bottom corner will flash.



Press UP or DOWN button to change  
the maximum number of remote controls.  
We can set the value from 1 to 9 or A.  
A - Maximum number of pilots - 50 items,  
1 - The number of possible pilots to  
program is 5 items (1 x 5),  
9 - The number of possible pilots to  
program is 45 items (9 x 5).

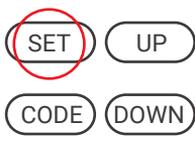


Press the SET button  
to confirm the settings.  
The symbol // appears  
on the display.

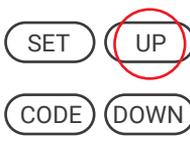
## 5.14 Overload adjustment at the lower limit position



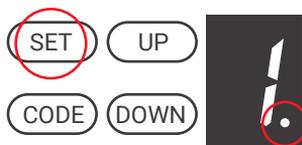
By default, the overload is turned off at 1 cm from the lower limit position.



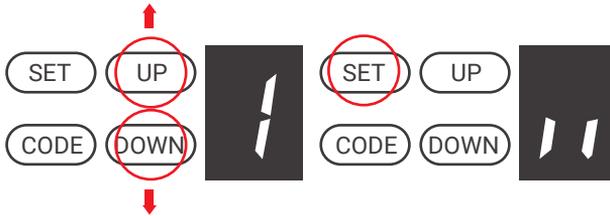
Press and hold SET button  
until digit 1 appear.



Press UP button  
and choose digit b.



Press the SET button to enter  
the overload force adjustment mode.  
The currently set value will appear  
on the display and the dot in  
the bottom corner will flash.



Press UP or DOWN button to change the height from the lower limit position at which the overload is switched off.

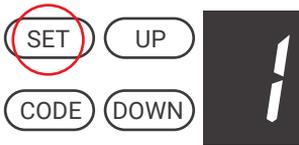
We can set the value from 1 to 9, that is from 1 cm to 9 cm.

Press the SET button to confirm the settings. The symbol // appears on the display.

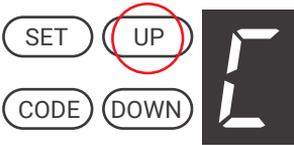
## 5.15 Pass door security settings



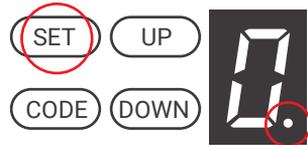
By default, the pass door protection is a NO contact.



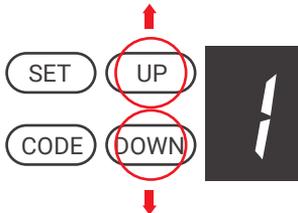
Press and hold SET button until digit 1 appear.



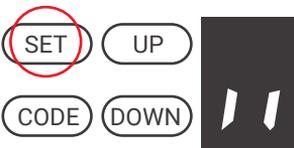
Press UP button and choose digit c.



Press the SET button to enter the overload force adjustment mode. The currently set value will appear on the display and the dot in the bottom corner will flash.



Press UP or DOWN button to change the setting.  
 0 - Protection of a pass door with NO contact,  
 1 - protection of a pass door with an NC contact.



Press the SET button to confirm the settings. The symbol // appears on the display.

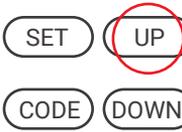
## 5.16 Setting photocells



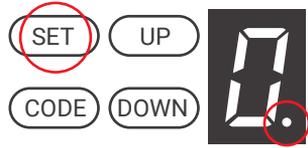
Make sure that the photocells are properly connected. Use a NC photocell (Fig. 16 and Fig. 17). The photocell function should be turned off when they are not connected. Otherwise, it will not be possible to close the gate. By default the photocell function is off.



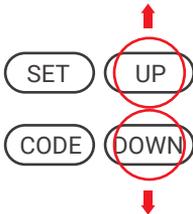
Press and hold SET button until digit 1 appear.



Press UP button and choose digit d.



Press the SET button to enter the overload force adjustment mode. The currently set value will appear on the display and the dot in the bottom corner will flash.



Press the UP or DOWN button to activate or deactivate the photocell function.  
0 - photocell function disabled  
1 - photocell function enabled.



Press the SET button to confirm the settings. The symbol // appears on the display.

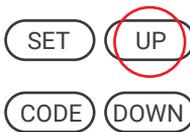
## 5.17 Settings for the maintenance reminder



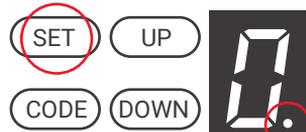
1. After the selected number of cycles has been completed, the drive indicates the necessity of its maintenance. The LED lighting will flash 10 times after the drive is finished and the t symbol will be visible on the display.
2. After this alarm, set the number of cycles to the next maintenance reminder or reset the limit positions.
3. The default maintenance reminder is turned off.
4. When the b symbol appears on the display and the LED lighting flashes 10 times, it means that the gate is not properly balanced and needs to be repaired.



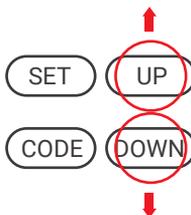
Press and hold SET button  
until digit 7 appear.



Press UP button  
and choose digit E.

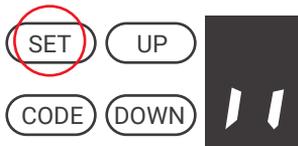


Press the SET button to enter  
the overload force adjustment mode.  
The currently set value will appear  
on the display and the dot in  
the bottom corner will flash.



Press the UP or DOWN button to specify  
the number of cycles after which the drive  
signals the need for its maintenance.

- 1 - 1000 cycles
- 2 - 2000 cycles
- 3 - 3000 cycles
- 4 - 4000 cycles
- 5 - 5000 cycles



Press the SET button to confirm  
the settings. The symbol //  
appears on the display.

## 5.18 Open/ stop/ close input



The O / S / C input can be used to control the drive using an external switch.  
The switch must have normally open voltage-free contacts (Fig. 19).

## 6. Optional connectors and connections

Connection of photocells - Fig. 17

Connection of the switch - Fig. 16



The power of the caution light should not exceed 25 W.  
The external switch should be „NO”.

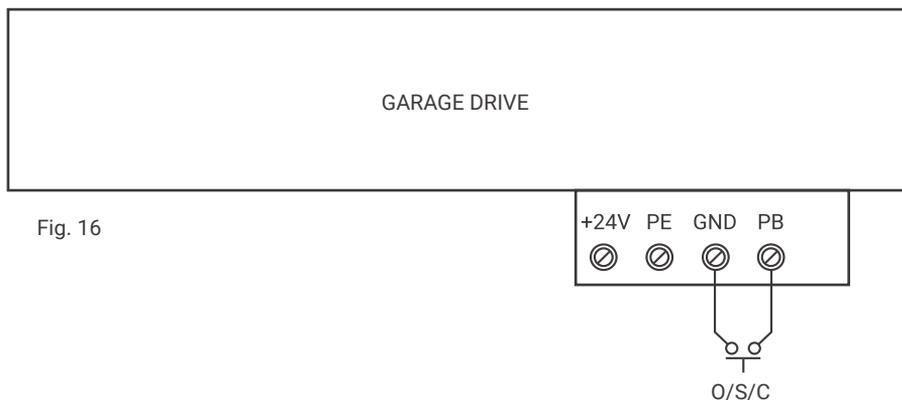


Fig. 16

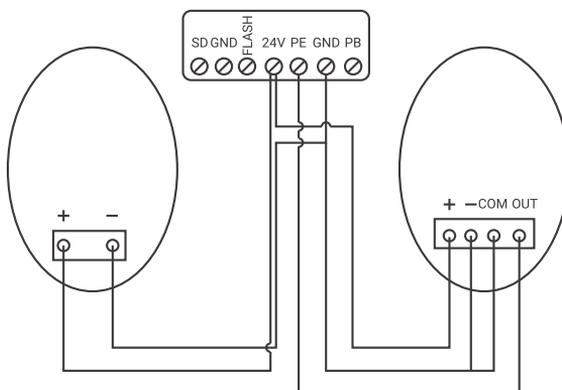


Fig. 17

**Additional connectors:**

1. The O / S / C input allows you to connect a switch to control the drive (Fig. 19).
2. The signal lamp (Fig. 18 and Fig. 19).

The drive has a separate output signal lamp. Supplying the signaling lamp it should be in the 24 V - 28 V DC range and the current consumption must not exceed 100 mA. When using AC 230 V signal lamps, additional relays should be used.

3. Pass door protection (Fig. 19).

This function does not allow the gate to be opened when the small pass door is open. Thanks to this, the door panel will not be damaged.

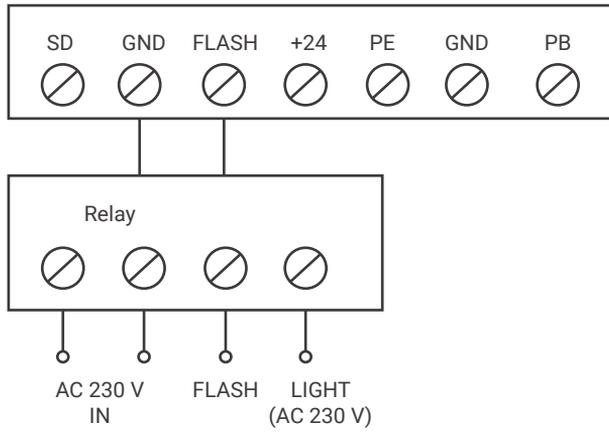


Fig. 18

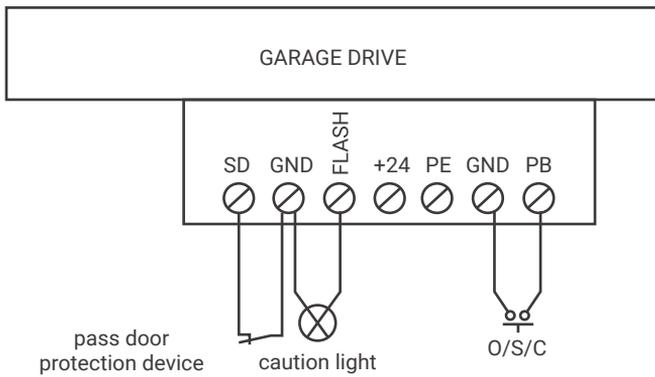


Fig. 19

## 7. Manual drive disconnection

The drive is equipped with a mechanism for disconnecting the drive, which allows you to manually open or close the gate in the event of power failure or drive failure (Fig 19). To disconnect the drive, pull the handle. To re-engage the drive, simply close the latch of the drive disconnect mechanism and then move the gate manually or start the drive until the latch locks on the belt or chain.

In some cases, it is recommended to bring the drive disconnect handle to the outside so that the mechanism is accessible from the outside (Fig. 21).

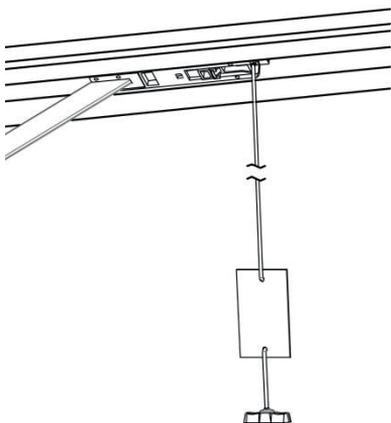


Fig. 20

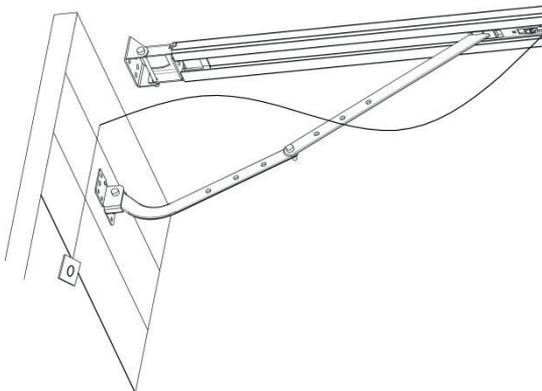


Fig. 21

## 8. Maintenance

1. No special maintenance of the drive's electronic system is required. Check at least twice a year that the gate is properly balanced and that all working parts are in good condition. Also check, at least twice a year, overload force and adjust it if necessary. Make sure that the photocells, works correctly.

### 2. Bulb replacement:

Note: Before replacing the lighting, make sure that the power has been turned off and that the voltage of the new bulb is compatible with its supply voltage and the power does not exceed 25 W.

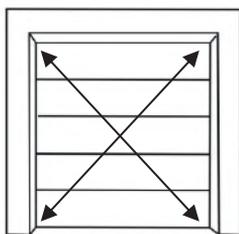
Loosen the screws on the lamp cover. Remove the lamp cover and then unscrew the old LED lamp. Screw the new lighting LED. and lamp cover.

3. When the LED lighting flashes 10 times, the door is not balanced and needs maintenance. After this alarm, the number of cycles must be set again to the next maintenance reminder or the limit positions set again.

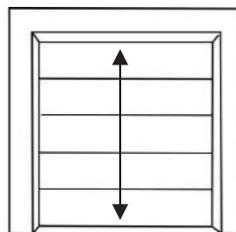
## 9. Technical data

	600N SPEED	1000N	1000N SPEED
POWER	230 V   50 Hz	230 V   50 Hz	230 V   50 Hz
MAX. PULLING FORCE	600N	1000N	1000N
MAX. GATE AREA	10.0 m <sup>2</sup>	15.0 m <sup>2</sup>	15.0 m <sup>2</sup>
MAX. GATE WEIGHT	80 kg	100 kg	100 kg
MAX. GATE HEIGHT	2400 - 3500 mm	2400 - 3500 mm	2400 - 3500 mm
RAIL	chain / belt	chain / belt	chain / belt
OPENING SPEED	200 mm/s	160 mm/s	200 mm/s
LED LIGHT	24 V / 15 pcs. LED	24 V / 15 pcs. LED	24 V / 15 pcs. LED
LIMIT SWITCHES	electronic	electronic	electronic
RADIO FREQUENCY	433.92 MHz	433.92 MHz	433.92 MHz

CODING FORMAT	rolling code (7.38 x 10 <sup>19</sup> combinations)		
MEMORY	50 transmitters	50 transmitters	50 transmitters
LAMP CAUTION OUTPUT	yes	yes	yes
OPERATING TEMPERATURE	From - 40° C to +50° C		
SAFETY	soft start and stop, the possibility of connecting photocells and a caution lamp		
PROTECTION DEGREE	IP20	IP20	IP20



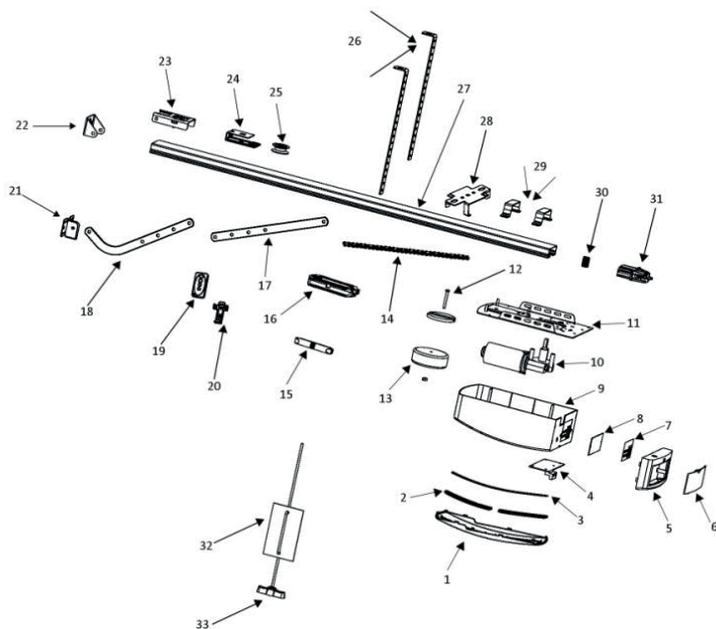
UNIVERSAL 600 N - max. gate area ≤ 10.0 m<sup>2</sup>  
 UNIVERSAL 1000 N - max. gate area ≤ 15 m<sup>2</sup>  
 UNIVERSAL 1000 N SPEED - max. gate area ≤ 15 m<sup>2</sup>



Standard gate height: 2400 mm  
 Max. gate height: 3500 mm

## 10. Elements list

### 10.1 Table



NR	QUANTITY	Description
1	1	Upper housing
2	1	LED lighting housing
3	1	LED light

4	1	Electronic system 1
5	1	Control panel housing 1
6	1	Control panel housing 2
7	1	Control Panel
8	1	Electronic system 2
9	1	Housing
10	1	DC motor with gear
11	1	Steel bottom housing
12	1	Mounting the transformer
13	1	Converter
14	1	Chain / Belt
15	1	Belt or chain connector

16	1	Trolley assy
17	1	Straight arm
18	1	Bent arm
19	1	Transmitter
20	1	Transmitter handle
21	1	Gate bracket
22	1	Wall holder
23	1	End of the rails
24	1	Gear holder
25	1	The belt gear
26	2	Mounting brackets
27	1	Steel rail

28	1	Rail handle
29	2	Type „U“ handle
30	1	Motor shaft
31	1	Gearwheel
32	1	Warning card
33	1	Disconnecting the drive handle

## 11. Troubleshooting

Fault	Possible causes	Solutions
1. The drive does not start, the LCD display does not light up.	a) No power supply. b) The power cord is damaged.	a) Check whether the motor socket is energized. b) Check that the fuse is not damaged. c) Check that the transformer low voltage cable is connected to the power board. d) Check that the wires are connected to the board. e) Check if the transformer's low voltage side is 26 V AC. If there is voltage - replace the PCB, while if there is no voltage - replace the transformer.
2. No limit positions.	Error system	Set the limit positions again.

<p>3. During programming, the display is „0“.</p>	<p>The operating range of the drive is less than 30 cm or greater than 9 m.</p>	<p>Set the limit positions again.</p>
<p>4. The display shows „P“ and the drive does not work or has stopped working.</p>	<p>Too low supply voltage.</p>	<p>Check the power supply voltage.</p>
<p>5. Symbol „b“ appears on the display.</p>	<p>Unbalanced spring.</p>	<p>Balance the springs.</p>
<p>6. Symbol „L“ appears on the display.</p>	<p>The motor gear can not lock properly.</p>	<p>Replace the engine gears.</p>
<p>7. The drive does not work. Symbol „r“ appears on the display.</p>	<p>Error during setting the limit positions.</p>	<p>Set the limit positions again.</p>
<p>8. LED lighting is on constantly.</p>	<p>Control panel or power board is damaged.</p>	<p>Replace the control panel or power board.</p>
<p>9. The drive stops after a movement of approx. 10 cm. The symbol „H“ appears on the display.</p>	<p>Damaged Hall sensor cable.</p>	<p>Open the housing. Check and if necessary replace the wires connecting the Hall sensor.</p>
<p>10. The drive does not work. The relay activates. The symbol „H“ appears on the display.</p>	<p>Damaged motor connection to the control board.</p>	<p>Open the housing and check the motor connection to the control board.</p>
<p>11. The drive stops after a movement of approx. 10 cm. The symbol „h“ appears on the display.</p>	<p>The cable between the motor and the control board is connected in reverse.</p>	<p>Turn the power off, open the housing and connect the wire between the motor and the control board. Set the limit positions again.</p>

<p>12. The gate rises but does not move down. The symbol „ Γ ” appears on the display.</p>	<p>The photocell option has been set without connection.</p>	<p>a) If the photocells are not connected, turn off the photocell function. b) If the photocells are connected, check the connection of the photocells and their operation.</p>
<p>13. When the gate closes automatically after opening. LED lighting flash 4 time.</p>	<p>Auto closing function is on.</p>	<p>Set the appropriate automatic closing time or deactivate the function.</p>
<p>14. When the caution light is lit all the time, even though the gate has stopped.</p>	<p>Power board damaged.</p>	<p>Replace the power board.</p>
<p>15. LED lighting does not work.</p>	<p>a) The lighting cable is not connected. b) LED diodes damaged. c) Power board damaged.</p>	<p>a) Check the LED connection. b) Replace the LEDs. c) Replace the power board.</p>
<p>16. The door opens automatically before it is completely closed.</p>	<p>a) The automatic reversing function after detecting an obstacle is activated. b) The gate is incorrectly installed. c) The gate is blocked during closing.</p>	<p>a) Check the place of blocking the gate and set the limit positions again. b) Increase the power of the drive overload.</p>
<p>17. The gate stops while opening.</p>	<p>a) The overload function is activated. b) The gate is incorrectly installed. c) The gate is blocked during opening.</p>	<p>a) Check the place of blocking the gate and set the limit positions again. b) Increase the power of the drive overload.</p>
<p>18. Remote control does not work or has a small operating range.</p>	<p>a) Low battery. b) The antenna is not connected or placed inside the drive. c) Radio signal interference.</p>	<p>a) Replace the battery. b) Place the antenna outside the drive. c) Remove radio signal interference.</p>

<p>19. A new remote control can not be added.</p>	<p>The new remote control is not compatible with the drive.</p>	<p>Select remote control compatible with the drive.</p>
<p>20. The display shows the „F” symbol.</p>	<p>The drive's memory is full. The drive reached max. number of programmed remotes control.</p>	<p>Remove programmed remote controls.</p>
<p>21. The symbol „ . ” appears on the display.</p>	<p>The pass door is open.</p>	<p>Check the security connections in pass door.</p>
<p>22. The drive works, but the gate does not move.</p>	<p>Motor shaft damaged.</p>	<p>Replace the motor shaft.</p>
<p>23. The battery does not power the drive.</p>	<p>a) Discharged battery. b) The battery is incorrectly connected. c) Damaged wires connecting the battery with the drive.</p>	<p>a) Charge the battery. b) Check the correctness of connection. c) Replace the wires connecting the battery with the drive.</p>
<p>24. Other unusual problems.</p>	<p>External devices are not compatible with the drive.</p>	<p>Disconnect all external devices. If you still have unusual problems, replace the control board.</p>
<p>25. The display shows the „t” symbol</p>	<p>A garage door with a drive requires maintenance.</p>	<p>Perform gate and drive maintenance.</p>

