Installation Manual
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The door control DC 2 EURO is designed for hold to run control of power operated doors. The basic version is designed for hold to run operation only, and you are not allowed to use the automatic function without using additional safety devices.

- In case of using DC 2 EURO with a permanent mains connection, an all-pole main switch with an appropriate back-up fuse must be provided.
- Before operation, check whether the permissible mains voltage range of the device corresponds to the local mains voltage.
- Please note that the door control as well as the motor are for indoor installation only.
- During installation, initial operation, maintenance and testing of the DC 2 EURO it is necessary to observe the safety and accident prevention regulations valid for the specific application. Only trained electrical craftsmen should work on electrical equipment.

Appliance according to the regulations

The door control DC 2 EURO is provided for the operation of sectional-, rollershutter-, folding- and swingdoors. The manufacturer of the complete installation is responsible. He must take care that the relevant standards and guidelines (e.g. DIN 1986, EN 12050) have to be respected. He must take care that a technical documentation of the whole installation is made available. The technical documentation must be added to the door unit. Installation, operating and use of the unit against this manual or the described technical specifications causes danger for persons and produces a liability- and obligations release. National and regional precautions and standards for the installation, as well as safety precautions of local technical standards have to be respected.

<table>
<thead>
<tr>
<th>Technical data</th>
<th>DC 2 – EURO deluxe</th>
<th>DC 2 – EURO ECO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supply voltage</td>
<td>230VAC 4.5VA</td>
<td>230VAC 4.5VA</td>
</tr>
<tr>
<td>Frequency</td>
<td>50 Hz</td>
<td>50 Hz</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 54</td>
<td>IP 54</td>
</tr>
<tr>
<td>Outputs motor</td>
<td>3x NO relay contact 230 V / 5 A</td>
<td>3 x NO relay contact 230 V / 5 A</td>
</tr>
<tr>
<td></td>
<td>2x NO relay contact 230 V / 2 A</td>
<td>1x unregulated supply voltage</td>
</tr>
<tr>
<td></td>
<td>1x unregulated supply voltage</td>
<td>24V DC, max. 50mA</td>
</tr>
<tr>
<td></td>
<td>24V DC, max. 50mA</td>
<td></td>
</tr>
<tr>
<td>Wiring</td>
<td>1.5 mm² max.</td>
<td>1.5 mm² max.</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10°C to +55°C</td>
<td>-10°C to +55°C</td>
</tr>
</tbody>
</table>
Connection

1-phase 230VAC motor

connection for build-in-starters

remove bridge when installing build-in-starters
DC 2 – EURO ECO

Installation Manual

- Program DIP
- Light module
- Push button
- Green LED
- Red LED
- Radio control

- Limit switch open
- Limit switch close
- Pre-limit switch
- 12 V / brown
- SKS / green
- GND / white
- Emergency
- 24 V
- GND
- NC
- NC
- Impulse
- C
- STOP
- DWN
- UP
- Light

Remove bridge marked with [X] when installing build-in-starters.
DC 2 – EURO ECO
Installation Manual

Turn power on.

Checking

- green light on

Turn power off. 😊

Program

1. Safety edge on
   - On/Off

2. CT closing time off
   - On/Off

3. CT closing time 30 sec.
   - On/Off

4. go function off
   - On/Off

5. go function active
   - On/Off

6. Prewarning in-active
   - On/Off

7. Testing in-active
   - On/Off

Turn power on.
Ready to operate.
Radio control (maximum 20 transmitters)

1. Plug in the RC module for installation of the receiver module please refer to page 26 at the bottom

2. Programming mode on
   Press button >5 seconds
   red LED flashes fast

3. Programming
   Press one button for two seconds
   red LED flashes long once = stored
   (or another type of transmitter)
   and so on. Maximum 20 transmitters.

4. Programming mode off
   10 seconds after the last programming the program returns to standard mode.

5. Cancel all transmitters
   Press button >5 seconds
   red LED flashes fast
   Press button once more for >5 seconds
   red LED off = all transmitters canceled
## Troubleshooting

<table>
<thead>
<tr>
<th>Status red LED</th>
<th>Action to take</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x active</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>2 x damaged</td>
<td>1, 2, 3, 7</td>
</tr>
<tr>
<td>3 x Security</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>4 x RT error</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Off No power</td>
<td>1, 9</td>
</tr>
</tbody>
</table>

1. control installation  
2. control DIP-switch position  
3. control pre-wired electrical bridges  
4. control limit switches  
5. contact dealer  
6. change module  
7. change safety edge  
8. change photo beam  
9. change fuse  
10. change the safety top barrier
remove bridge marked with X when installing build-in-starters
Turn power on.
Checking.

- Green light on
- Red light off

Ready to operate

Running up
Stop
Running down

Door position up
Middle
Door position down

Turn power off. 😊
Program II

- Keypad
- External timer
- Green light

Program I

- Safety edge
- No testing
- D (GB)
- 3 sec.
- Prewarning in-active
- Prewarning active
## Troubleshooting

<table>
<thead>
<tr>
<th>Status Display</th>
<th>Status red LED</th>
<th>Beep</th>
<th>Action to take</th>
</tr>
</thead>
<tbody>
<tr>
<td>Security</td>
<td>Off</td>
<td>No</td>
<td>1, 2, 3, 4</td>
</tr>
<tr>
<td>Safety edge</td>
<td>Off</td>
<td>No</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Safety edge</td>
<td>On</td>
<td>Yes</td>
<td>7</td>
</tr>
<tr>
<td>Safety edge</td>
<td>Off</td>
<td>No</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Photobeam</td>
<td>Off</td>
<td>No</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Photobeam</td>
<td>On</td>
<td>Yes</td>
<td>8</td>
</tr>
<tr>
<td>Relais</td>
<td>On</td>
<td>Yes</td>
<td>5</td>
</tr>
<tr>
<td>Relais</td>
<td>Off</td>
<td>No</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>RT error</td>
<td>On</td>
<td>Yes</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Safety top barrier</td>
<td>Off</td>
<td>No</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Safety top barrier</td>
<td>On</td>
<td>Yes</td>
<td>10</td>
</tr>
<tr>
<td>No power</td>
<td>Off</td>
<td>No</td>
<td>1, 9</td>
</tr>
</tbody>
</table>

1 control installation  
2 control DIP-switch position  
3 control pre-wired electrical bridges  
4 control limit switches  
5 contact dealer  
6 change module  
7 change safety edge  
8 change photo beam  
9 change fuse  
10 change the safety top barrier
**Connection**

No limit switches (bridged!)

- Limit switch open
- Limit switch open
- Limit switch close
- Limit switch close
- Pre-limit Switch
- Pre-limit switch

Limit switch open
Limit switch open
Limit switch close
Limit switch close
Pre-limit Switch
Pre-limit Switch

remove bridges when installing build-in-starters
Connection accessories

KDT 3 push button

C
Stop
DWN
UP

13
NO
14
UP

13
NO
14
DWN

21
NC
22
Stop

KDT 2 push button / M Series 2T

C
Stop
DWN
UP

13
NO
14
UP

13
NO
14
DWN

remove bridge when installing KDT 3 push button
M Series 1T

Emergency stop / KDT 1

ES Series
J Series

2 P 1

C
Stop
DWN
UP

2
1

P

remove bridge when installing J-Series with Stop

J with Stop

21

NC

22

2 P 1

C
Stop
DWN
UP
Photo beams

**LS 1**

- **24V**
- **GND**
- **NC**
- **NC**

Diagram: Connection points 1 to 5 on both RX and TX sides.

**LS 2**

- **24V**
- **GND**
- **NC**
- **NC**

Diagram: Connection points 1 to 5 on both RX and TX sides. Note: Remove bridge.
DC 2 – EURO deluxe
Installation Manual

LS 2 reflector

24V
GND
NC
NC

RX/TX

LS 3 reflector

24V
GND
NC
NC

BU
BN
BK
WH
GY

Cut

RX/TX

remove bridge
LS 4

24V
GND
NC
NC

8,2kΩ

12V
SKS
GND

8,2kΩ

Safety edge Pro-Sec-O

12V
SKS
GND

On

Off
Court light (230 VAC) / Signal light

DC 2 – EURO deluxe

Signal light (230 VAC)
Optional accessories for DC2 deluxe

Cody

1. Wiring
   Keypad

2. DIP-switch / Program 2
   Programming mode on

3. Insert codes (10 different codes with 4 or 5 digits) programming & operation

<table>
<thead>
<tr>
<th>Insert code (e.g.)</th>
<th>Confirm</th>
<th>Status Display</th>
<th>Sound (beep)</th>
<th>buttons</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td></td>
<td></td>
<td></td>
<td>▲ / STOP / ▼</td>
</tr>
<tr>
<td>78541</td>
<td></td>
<td></td>
<td></td>
<td>▲ / STOP / ▼</td>
</tr>
<tr>
<td>5398</td>
<td></td>
<td></td>
<td></td>
<td>▲ / STOP / ▼</td>
</tr>
<tr>
<td>...</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. Programming mode off

5. Cancel codes

press micro push button to choose

press micro push button two seconds

code canceled / position free
Transponder

1. Wiring

2. DIP-switch / Program 2
   Programming mode on
3. Programming max. 10 different keys

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>8</td>
</tr>
</tbody>
</table>

Maximum 10 keys

4. Programming mode off

5. Cancel keys

- press micro push button to choose
- press micro push button two seconds
- key canceled / position free
Radio control (maximum 20 transmitters)

1. Plug in the RC module for installation of the receiver module please refer to page 26 at the bottom

2. DIP-switch / Program 2

3. Programming

press one button for two seconds (or another transmitter)
and so on. Maximum 20 transmitters.

4. Programming mode off
The door control DC 2 EURO is designed for hold to run control of power operated doors. The basic version is designed for hold to run operation only, and you are not allowed to use the automatic function without using additional safety devices.