ELIXO 500 3S io

FR Manuel d’installation
NL Installatiehandleiding
EN Installation instructions
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io-homecontrol® provides advanced and secure radio technology that is easy to install. io-homecontrol® labelled products communicate with each other, improving comfort, security and energy savings.

www.io-homecontrol.com
GENERAL INFORMATION

This product, installed in accordance with this guide, complies with standards EN 12453 and EN 13241-1.
The instructions referred to in the product's installation guide and instructions for use are designed to prevent damage to property and personal injury along with compliance with the above standards.

Somfy declares that this product complies with the essential requirements and other relevant provisions of Directive 1999/5/EC. A Declaration of Conformity is available at www.somfy.com/ce (ELIXO 500 3S io).
Product can be used in the European Union, Switzerland and Norway.

SAFETY INSTRUCTIONS

Caution
Always read this installation guide and the attached safety instructions before installing this Somfy product.
This guide describes how to install, commission and operate this product. Follow all the instructions as incorrect installation can lead to serious injury.
Any use outside the sphere of application specified by Somfy is forbidden. This invalidates the warranty and discharges Somfy of all liability, as does any failure to comply with the instructions given herein.
This Somfy product must be installed by a professional motorisation and home automation installer, for whom this guide is intended.
Moreover, the installer must comply with current standards and legislation in the country in which the product is being installed, and inform his customers of the conditions for use and maintenance for the product. It is the installer's responsibility to ensure that the automatic installation and its operation are compliant with the standards in force.

This device is not designed to be used by persons (including children) whose physical, sensory or mental capacity is impaired, or persons with little experience or knowledge, unless they are under supervision or have received instructions on using the device by a person responsible for their safety.

Safety instructions relating to installation

Somfy refuses to accept any responsibility as regards the safety and correct operation of the motorisation if non-Somfy components are used.
No modifications may be made to the components of the motorisation system unless expressly authorised by Somfy.
Inform the user about the operation of the control systems and the manual opening procedure in the event of an emergency.
Installations which do not comply with the specifications in this manual or improper use of the product may cause injury or damage the equipment.

Installation area
• Before installation, ensure that the installation location complies with the provisions of the current standards. In particular, the position in which the motorisation mechanism will be fitted must allow for safe and easy manual release of the gate.
• Ensure that there are no danger zones (risk of crushing, cutting, trapping) between the gate and the surrounding fixed elements caused by the opening movement of the gate.
• Do not install the product in an explosive environment.
• Maintain a clear area of 500 mm behind the gate when it is completely open.

Installation
• Before installation, ensure that the gate frame conforms to current standards, particularly:
  • The gate sliding rail must be straight and horizontal and the wheels must be able to support the weight of the gate.
  • The gate should be able to be moved easily, manually, over its entire travel and there should be no sign of excessive side sway.
  • The upper guide should allow the gate exact clearance to ensure regular, silent movement.
  • End stops must be installed on the ground at both the opening and closing ends.
• On a barred gate, if the bars are more than 40 mm apart, install an appropriate safety device to prevent cutting.
• Watch the gate while it is moving.
• Manual unlocking may result in uncontrolled movement of the gate leaf.
• Place the fixed control devices and remote controls out of the reach of children.
• Any switch without a locking device must be installed in direct view of the gate and away from any mobile parts. The minimum height at which it must be installed is 1.5 m. It must not be accessible to the public.

During installation of the motorisation
• Remove any jewellery (bracelets, chains, etc.).
• For drilling and welding operations, wear special glasses and sufficient protection.
• Use the appropriate tools.
• Do not connect to the mains or to a backup battery before installation is complete.
• Be careful when handling the motorisation system to prevent any risk of injury.
Power supply

- In order to operate, the motor must be supplied with 230 V 50 Hz. The electric line should:
  - solely be used for the motor,
  - have a minimum cross section of 1.5 mm²,
  - be fitted with an approved all-pole switch with contact openings of at least 3.5 mm, fitted with a protection device (fuse or circuit breaker with a 16 A rating) and a differential device (30 mA),
  - be installed in accordance with the current electrical safety standards,
  - be fitted with a lightning conductor (in compliance with standard NF C 61740, maximum residual voltage 2 kV),
- Check whether the earthing system is performed correctly: connect all the metal parts of the assembly and all the components of the installation equipped with earth terminals.
- After installation, ensure that the mechanism is correctly adjusted and that the protection system and any manual release mechanism operate correctly.

Safety devices

- The selected safety accessories for the installation must comply with the current standards and regulations in force in the country in which the product is being installed. The use of any safety components not approved by Somfy remains the sole responsibility of the installer.
- Install all the safety devices (photoelectric cells, safety edges, etc.) required to protect the zone from the danger of crushing, movement force and cutting according to the applicable directives and technical standards.
- In accordance with standard EN 12453 governing the safe use of motorised gates and doors, the use of the TAHOMA control box to automatically control a garage door or gate not visible to the user requires the installation of a photoelectric cell type safety device with autotest on the automatic control system.

Maintenance

- Regularly check the condition of the gate. Gates in poor condition must be repaired, reinforced or even replaced. Check that the various motorisation component's screws and fittings are correctly tightened.
- Before carrying out work on the installation, switch off the power supply.
- Use only original parts for any maintenance or repair work.

Motorising an existing gate

Carry out a stress test with a measuring device which conforms to the requirements set out on in clause 5.1.1 of standard EN 12445.

PRODUCT DESCRIPTION

Area of application

Sliding gates up to 500 kg and carrying out 30 manoeuvres per day.

To ensure the safety of all equipment and persons, respect the information given in the table:

<table>
<thead>
<tr>
<th>For a gate weighing ...</th>
<th>use ...</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 300 kg</td>
<td>a passive rubber block on the end of the gate</td>
<td>9014597</td>
</tr>
<tr>
<td>300 to 500 kg</td>
<td>a passive rubber block on the end of the gate</td>
<td>9014598</td>
</tr>
</tbody>
</table>

If using a different rubber block to those listed above, ensure that the installation conforms with current regulations.

Contents of the standard kit

1 Elixo 24 V Motor x 1
2 KEYGO io remote control x 2
3 Offset io aerial x 1

Ground mounting kit:
4a Lag screws x 4
4b Nut x 8
4c Washer x 4
4d Plug x 4
4e Base plate x 1
5 Manual release handle assembly x 1
6 Handle locking key x 2
7 End limit brackets x 2
Description of the motorisation

1. Motor
2. Reduction unit with worm screws - helicoid drive wheel
3. Electromechanical end limit unit
4. Pinion
5. Manual release mechanism
6. Control unit

Battery pack (optional, ref. 9014612):
7a. 2 backup batteries
7b. Battery holder tray
7c. Battery power supply management card
8. Battery pack (option, ref. 9001001)
9. Fuse (250 V/5 A) for 230 V lighting output
10. Spare fuse (250 V/5 A)

Description of the interface

3-digit LCD screen
Display of parameters, codes (operation, programming, faults and breakdowns) and memorised data.
Parameter value display:
- fixed = value selected/auto-adjusted
- flashing = value selectable for parameter

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>↑ ↓</td>
<td>- navigate the parameters and codes list: . short press = scroll through individual parameters . press and hold = scroll rapidly through parameters</td>
</tr>
<tr>
<td>OK</td>
<td>- start auto-programming cycle . confirm parameter selection . confirm parameter value</td>
</tr>
<tr>
<td>+ -</td>
<td>- modify a parameter value . short press = scroll through individual parameters . press and hold = scroll rapidly through parameters . use of forced operating mode by pressing and holding</td>
</tr>
<tr>
<td>SET</td>
<td>- Press 0.5 s: access and exit the parameter setting menu . Press 2 s: trigger auto-programming . Press 7 s: clear auto-programming and parameters . interrupt auto-programming</td>
</tr>
<tr>
<td>FAQ</td>
<td>- Press 2 s: memorise the remote controls . Press 7 s: clearing the remote controls</td>
</tr>
</tbody>
</table>

General motor size

General view of a standard installation

A. Motor
B. Rack
C. Aerial
D. Orange light
E. Set of photoelectric cells
F. Key lock
G. Passive rubber block
H. End limit brackets
i. End stops in the ground
INSTALLATION

The motorisation must be disengaged during installation.

Assembling the manual release handle

[1]. Insert the release handle into the specific housing on the motor.
[2]. Tighten the release handle.
[3]. Fit the screw cover.

Unlocking the motor

[1]. Turn the key a quarter of a turn to the left.
[2]. Turn the release handle to the right.

Do not forcibly push the gate. Hold the gate over its entire travel during manual manoeuvres.

Installing the motorisation

Fitting the mounting system

The motor mounting kit provided is to be used on a concrete base. For all other types of mounting, use the appropriate fittings.

[1]. Position the base plate:
   • parallel to the gate,
   • with the symbol on the pinion pointing towards the gate,
   • by moving it by 25 mm in relation to the front line of the rack (if the rack is fitted with a cover, measure from the line on the rack, not on the cover),
   • so that it does not obstruct movement and to ensure the gate is able to open and close completely.

[2]. Mark the location for the ground mountings.

[3]. Drill to a depth of 85 mm.

[4]. Insert the plugs.

[5]. Tighten the lag screws on:
   • the threaded section for a rack height of between 110 and 130 mm,
   • the threaded section + the unthreaded section for a rack height of between 100 and 110 mm.

To facilitate tightening of the lag screws, use 2 nuts to form a "double nut".

[6]. Screw a nut onto each lag screw.

[7]. Place the base plate onto the lag screws with the symbol on the pinion pointing towards the gate. It must be a minimum of 23 mm from the ground.
Mounting the motor
[1]. Position the motor on the lag screws, insert it and push it towards the gate.
[2]. Ensure the pinion is correctly positioned under the rack.
[3]. Set the height of the motor and/or the rack to ensure a clearance of approximately 2 mm between the rack and the pinion. This setting is important to prevent premature wear of the pinion and rack; the pinion must not be supporting the weight of the gate.
[4]. Check:
  • that the setting nuts all come into contact with the base of the motor,
  • the motor is level,
  • the gate runs correctly,
  • the clearance between the rack and pinion does not vary significantly over the gate’s travel.
[5]. Fit a washer and nut onto each lag screw in order to fit the motor.

Fitting the end limit brackets
[1]. Manually move the gate to the open position.
[2]. Position a bracket onto the rack so that it activates the motor end limit contact.
[3]. Screw the bracket onto the rack.
[4]. Manually move the gate to the closed position then repeat steps 2 and 3 to fit the second bracket to the rack.

Connection to the power supply
Connect the live (L) to terminal 1 on the motor.
Connect the neutral (N) to terminal 2 of the motor.
Connect the earth wire to the earth terminal on the base of the motor.
Switch on the power to the installation before commissioning.

The transformer is prewired (terminals 3 and 4). Do not alter the connections.

Before quick commissioning
[1]. Ensure the rail is clean.
[2]. Manually move the gate to the intermediate position.

Re-engage the motorisation
[1]. Turn the release handle to the left.
[2]. Move the gate manually until the drive mechanism re-locks.
[3]. Turn the key a quarter of a turn to the right.
QUICK COMMISSIONING

Memorising the Keygo io remote controls for operation in complete opening mode

If this procedure is carried out using a channel which has already been memorised, this channel will be cleared.

[1]. Press and hold the “PROG” button (2 s) on the programming interface.
   The screen displays "F0".
[2]. Press the outer left and right buttons on the remote control together.
   The remote control indicator light flashes.
[3]. Press the button of the remote control that will open the gate fully.
   The screen displays "Add".

Auto-programming

Auto-programming allows the gate’s speed, maximum torque and slowdown zones to be adjusted.

- Auto programming the gate’s travel is essential when commissioning the motor.
- The gate must be in the intermediate position before auto-programming starts.
- During auto-programming, the obstacle detection function is not active. Remove any objects or obstacles and do not allow any persons near or inside the operating range of the motorisation.

To carry out an emergency stop during self-learning, use a stored remote control.

Start auto-programming

[1]. Press and hold the “SET” button (2 s).
   Release the button when the screen displays "H1".
   Auto-programming must start with the gate being opened.
   The gate performs two complete Opening and Closing cycles.

- If auto-programming starts with the gate being closed, stop auto-programming,
  push the slide as shown opposite then restart auto-programming.
- If auto-programming is correct, the display indicates “C1”.

- If auto-programming has not completed correctly, the display indicates “H0”.

...
Auto-programming can be interrupted by:
- activating a safety input (photoelectric cells, etc.)
- the appearance of a technical fault (thermal protection, etc.)
- pressing a control button (motor electronics, memorised remote control, wired control point, etc.).

In case of interruption, the display indicates "H0" and the motor returns to "Awaiting setting" mode. During auto-programming, if the gate is stationary, pressing "SET" will exit auto-programming mode.

**Note:** It is possible to access auto-programming mode at any time including when the auto-programming cycle has already been completed and the display indicates "C1".

## OPERATING TEST

### Complete opening operation

![Diagram of complete opening operation]

### Obstacle detection operation

Obstacle detection when opening = stop + partial reversal.
Obstacle detection when closing = stop + complete reopening.

### Operation of the photoelectric cells

With the photoelectric cells connected to the dry/Cell contact (terminals 19-20) and Cell safety input parameter P07 = 1.

- Cells obscured with gate closed/open = the gate cannot be moved until the operating mode changes to deadman operation (after 3 minutes).
- Cells obscured when opening = the state of the cells is not taken into account and the gate continues to move.
- Cells obscured when closing = stop + complete reopening.

### Safety edge operation (closing only)

Activation of the safety edge when closing = stop + complete reopening.

### Specific operation

See the user booklet.
## GENERAL WIRING DIAGRAM

### Terminals and Terminal Indications

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Terminal Indications</th>
<th>Connection</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L</td>
<td>230 V power supply</td>
<td>Note: Earth connection available on the motor body</td>
</tr>
<tr>
<td>2</td>
<td>N</td>
<td>230 V power supply</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>L</td>
<td>Transformer primary output</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>N</td>
<td>Transformer primary output</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>N</td>
<td>230 V lighting output</td>
<td>Max. power 500 W Protected by 5A time-delay fuse</td>
</tr>
<tr>
<td>6</td>
<td>L</td>
<td>230 V lighting output</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Conductor Braid</td>
<td>PEDESTRIAN/CLOSING control input</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>COMPLETE/CLOSING control input</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Contact Shared</td>
<td>PEDESTRIAN/CLOSING control input</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Contact Shared</td>
<td>COMPLETE/CLOSING control input</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Contact Shared</td>
<td>Auxiliary contact output</td>
<td>24 V, 1.2 A outage Safety Extra Low Voltage (SELV)</td>
</tr>
<tr>
<td>12</td>
<td>Contact Shared</td>
<td>Auxiliary contact output</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Contact Shared</td>
<td>Auxiliary contact output</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Contact Shared</td>
<td>Safety input 3 - programmable</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Contact Shared</td>
<td>Safety input 3 - programmable</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Contact Shared</td>
<td>Safety input 4 - programmable</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Contact Shared</td>
<td>Safety input 4 - programmable</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Contact Shared</td>
<td>Safety input 4 - programmable</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Contact Shared</td>
<td>Safety input 4 - programmable</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Contact Shared</td>
<td>Safety input 4 - programmable</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Contact Shared</td>
<td>Safety input 4 - programmable</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Contact Shared</td>
<td>Safety input 4 - programmable</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>24 V</td>
<td>24 V accessories power supply</td>
<td>1.2 A max for all accessories on all outputs</td>
</tr>
<tr>
<td>24</td>
<td>0 V</td>
<td>24 V accessories power supply</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>24 V - 15 W</td>
<td>24 V - 15 W orange light output</td>
<td></td>
</tr>
<tr>
<td>26</td>
<td>0 V</td>
<td>24 V - 15 W orange light output</td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>9 V - 24 V</td>
<td>9 V or 24 V low voltage supply input</td>
<td>Compatible batteries 9.6V and 24V At 9 V, degraded operation At 24 V, normal operation</td>
</tr>
<tr>
<td>28</td>
<td>0 V</td>
<td>9 V or 24 V low voltage supply input</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>EOS O</td>
<td>Motor end limit</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>EOS O</td>
<td>Motor end limit</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>EOS F</td>
<td>Motor end limit</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>1</td>
<td>Motor</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>2</td>
<td>Motor</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>24 VAC</td>
<td>Transformer</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td></td>
<td>Transformer</td>
<td></td>
</tr>
</tbody>
</table>
CONNECTING ADDITIONAL DEVICES

Description of the various additional devices

Photoelectric cells (Fig. 1)
Three types of connection are possible:
B: With autotest: programme parameter “P07” = 3.
   Allows an automatic test to be carried out to check the operation of the photoelectric cells each time the gate moves.
   If the operating test result is negative, the gate cannot be moved until the operating mode changes to deadman operation (after 3 minutes).
C: BUS: programme parameter “P07” = 4. Auto-programming must be repeated after the cell BUS has been connected.

If cells are removed, it is essential to create the bridge between terminals 19 and 20.
It is compulsory to install photoelectric cells if:
- the automatic control device is being controlled remotely (user unable to see it),
- automatic closing is activated (P01 = 1, 3 or 4).
It is compulsory to install photoelectric cells with autotest if the automatic control device is being controlled by a Tahoma control box.

Reflex photoelectric cell (Fig. 2)
• Without autotest: programme parameter “P07” = 1.
• With autotest: programme parameter “P07” = 2.
   Allows an automatic test to be carried out to check the operation of the photoelectric cell each time the gate moves.
   If the operating test result is negative, the gate cannot be moved until the operating mode changes to deadman operation (after 3 minutes).

It is compulsory to install photoelectric cells with autotest if the automatic control device is being controlled by a Tahoma control box.

Orange light (Fig. 3)
Programme parameter “P12” according to the required operating mode:
• No warning prior to gate movement: “P12” = 0.
• With 2 s warning prior to gate movement: “P12” = 1.
   Connect the aerial cable to terminals 7 (conductor) and 8 (braid).

Wired code keypad (Fig. 4)

Aerial (Fig. 5)

Safety edge (Fig. 6)
Only active when closing (for a safety edge active when opening, use the programmable safety input and programme parameter “P10” = 1).
With autotest: programme parameter “P08” = 2.
   Allows an automatic test to be carried out to check the operation of the safety edge each time the gate moves.
   If the operating test result is negative, the gate cannot be moved until the operating mode changes to deadman operation (after 3 minutes).

If the safety edge is removed, it is essential to create the bridge between terminals 17 and 18.

24 V battery (Fig. 7)
[1]. Position and tighten the battery power supply management card.
[2]. Position the batteries.
[3]. Make the connections.
For more details, refer to the 24V battery instructions.

9.6 V battery (Fig. 8)
Degraded operation: speed reduced and constant (no slowdown at end limit), 24 V accessories inactive (including cells).
Life: 3 cycles/24 hrs

Area lighting (Fig. 9)
For class I lighting, connect the earth wire to the earth terminal on the base of the motor.
Note: The earth wire must always be longer than the live and neutral wires in case of detachment.
Several lights may be connected provided the total power does not exceed 500 W.
NAVIGATION OF DIFFERENT PARAMETERS

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Values (bold = default)</th>
<th>Setting completed</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>P01</td>
<td>Complete cycle operating mode</td>
<td>0: sequential</td>
<td>Each press on the remote control causes the motor to move (initial position: gate closed) as per the following cycle: open, stop, close, stop, open, etc.</td>
<td>In sequential mode, the gate moves in the following order: open, stop, close, stop, open, etc.</td>
</tr>
<tr>
<td></td>
<td>1: sequential + timed close</td>
<td>Operation in automatic closing mode is only authorised if the photovoltaic cells are fitted. i.e. P07=1 to 4.</td>
<td>In sequential mode with automatic timed close: - the gate closes automatically after the time delay programmed in parameter &quot;P02&quot;, - pressing a button on the remote control interrupts the movement taking place and the timed close (the gate remains open).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2: semiautomatic</td>
<td>In semiautomatic mode: - pressing a button on the remote control during opening has no effect, - pressing a button on the remote control during closing causes it to reopen.</td>
<td>In semiautomatic mode, the gate moves in the following order: open, stop, close, stop, open, etc.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3: automatic</td>
<td>Operation in automatic closing mode is only authorised if the photovoltaic cells are fitted.</td>
<td>In automatic closure mode: - the gate closes automatically after the time delay programmed in parameter &quot;P02&quot;, - pressing a button on the remote control during opening has no effect, - pressing a button on the remote control during closing causes it to reopen, - pressing a button on the remote control during the closing time delay restarts the time delay (the gate will close when the new time delay has elapsed). If there is an obstacle in the cell's detection zone, the gate will not close. It will close once the obstacle is removed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4: automatic + cell blocking</td>
<td>i.e. P07=1 to 4.</td>
<td>After the gate is opened, movement in front of the cells (safe closure) will close the gate after a short time delay (fixed at 2 seconds). If there is no movement in front of the cells, the gate will close automatically after the timed close programmed in parameter &quot;P02&quot;. If there is an obstacle in the cell's detection zone, the gate will not close. It will close once the obstacle is removed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5: deadman's control (wire)</td>
<td>In wired deadman mode* - the gate can only be controlled by continuous action on a wired control, - the radio controls are inactive.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P02</td>
<td>Complete operating mode automatic timed closing</td>
<td>0 to 30 (value x 10 s = time delay value)</td>
<td>If value 0 is selected, the gate immediately closes automatically.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2: 20 s</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Values (bold = default)</td>
<td>Setting completed</td>
<td>Comments</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
<td>-------------------------</td>
<td>------------------</td>
<td>----------</td>
</tr>
<tr>
<td>P03</td>
<td>Pedestrian cycle operating mode</td>
<td>0: identical to complete cycle operating mode 1: without automatic closing 2: with automatic closing</td>
<td></td>
<td>The pedestrian cycle operating mode is identical to the complete cycle operating mode selected. If P01=1, the gate does not close automatically following a pedestrian opening command. Operation in automatic closing mode is only authorised if the photoelectric cells are fitted. i.e. P07=1 to 4. The automatic closing time delay can be programmed in parameter “P04” (short time delay) or parameter “P05” (long time delay).</td>
</tr>
<tr>
<td>P04</td>
<td>Short automatic closing time delay in pedestrian cycle</td>
<td>0 to 30 (value x 10 s = time delay value) 2: 20 s</td>
<td>If value 0 is selected, the gate immediately closes automatically.</td>
<td></td>
</tr>
<tr>
<td>P05</td>
<td>Long automatic closing time delay in pedestrian cycle</td>
<td>0 to 50 (value x 5 min = time delay value) 0: 0 s</td>
<td>Value 0 must be selected if the short automatic closing time delay in pedestrian cycle is inactive.</td>
<td></td>
</tr>
<tr>
<td>P06</td>
<td>Pedestrian opening amplitude</td>
<td>1 to 9 1: 80 cm</td>
<td>1: minimum pedestrian opening 2: 20 s 9: maximum pedestrian opening (approximately 80% of the gate’s total travel)</td>
<td></td>
</tr>
<tr>
<td>P07</td>
<td>Cell safety input</td>
<td>0: inactive 1: active 2: with autotest via test output 3: with autotest via power supply switching 4: bus cells</td>
<td>0: the safety input is not taken into account. 1: safety device without autotest; it is essential to check that it is operating correctly every 6 months. 2: the autotest is run on the device for each operating cycle via the test output, reflex cell application with autotest. 3: the autotest is run on the device for each operating cycle via power supply switching of the cell power supply output (terminals 21 and 22). 4: bus cells application.</td>
<td></td>
</tr>
<tr>
<td>P08</td>
<td>Safety edge safety input</td>
<td>0: inactive 1: active 2: with auto-test</td>
<td>0: the safety input is not taken into account. 1: safety device without auto-test. 2: the autotest is run on the device for each operating cycle via the test output.</td>
<td></td>
</tr>
<tr>
<td>P09</td>
<td>Programmable safety input</td>
<td>0: inactive 1: active 2: with autotest via test output 3: with autotest via power supply switching</td>
<td>0: the safety input is not taken into account. 1: safety device without auto-test. 2: the autotest is run on the device for each operating cycle via the test output. 3: the autotest is run on the device for each operating cycle via power supply switching of the cell power supply output (terminals 21 and 22).</td>
<td></td>
</tr>
<tr>
<td>P10</td>
<td>Programmable safety input - function</td>
<td>0: active closing 1: active opening 2: active closing + ADMAP 3: all movement disabled</td>
<td>0: the programmable safety input is only active when closing. 1: the programmable safety input is only active when opening. 2: the programmable safety input is only active when closing and, when activated, the gate cannot be opened. 3: emergency stop application; if the programmable safety input is activated, the gate cannot be moved.</td>
<td></td>
</tr>
<tr>
<td>P11</td>
<td>Programmable safety input - action</td>
<td>0: stop 1: stop + partial reversal 2: stop + complete reversal</td>
<td>0: emergency stop application, compulsory if P10=3 disabled if a safety edge is connected to the programmable safety input. 1: recommended for a safety edge application. 2: recommended for a cell application.</td>
<td></td>
</tr>
<tr>
<td>P12</td>
<td>Orange warning light</td>
<td>0: no warning 1: with 2 s warning prior to movement</td>
<td>If the gate opens onto a public path, the “with warning” configuration must be selected: P12=1.</td>
<td></td>
</tr>
<tr>
<td>P13</td>
<td>Area lighting output</td>
<td>0: inactive 1: controlled operation 2: automatic + controlled operation</td>
<td>0: the area lighting output is not taken into account. 1: the area lighting is remotely controlled. 2: the area lighting is remotely controlled when the gate is stationary and the area lighting comes on automatically when the gate is moving, and remains on when it stops moving for the duration of the time delay programmed in parameter “P14”. P13=2 is compulsory for operation in automatic mode.</td>
<td></td>
</tr>
<tr>
<td>P14</td>
<td>Area lighting time delay</td>
<td>0 to 60 (value x 10 s = time delay value) 6: 60 s</td>
<td>If value 0 is selected, the area lighting goes out as soon as the gate stops moving.</td>
<td></td>
</tr>
<tr>
<td>P15</td>
<td>Auxiliary output</td>
<td>0: inactive 1: automatic: gate open indicator light 2: automatic: timed bistable 3: automatic: one-touch 4: controlled: bistable (ON-OFF) 5: controlled: one-touch 6: controlled: timed bistable</td>
<td>0: the auxiliary output is not taken into account. 1: the gate indicator light is off when the gate is closed, flashing when the gate is moving and on when the gate is open. 2: output activated when movement starts, during movement then deactivated at the end of the time delay programmed in parameter “P16”. 3: one-touch at contact when movement starts. 4: operation changes as follows each time the memorised button on the radio control point is pressed: ON, OFF, ON, OFF. 5: one-touch at contact by pressing the memorised button on the radio control point. 6: output activated by pressing the memorised button on the radio control point then deactivated at the end of the time delay programmed in parameter “P16”.</td>
<td></td>
</tr>
<tr>
<td>P16</td>
<td>Auxiliary output time delay</td>
<td>0 to 60 (value x 10 s = time delay value) 6: 60 s</td>
<td>The auxiliary output time delay is only active if the value selected for P15 is 2 or 6.</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Values (bold = default)</td>
<td>Setting completed</td>
<td>Comments</td>
</tr>
<tr>
<td>------</td>
<td>-------------------------------------</td>
<td>----------------------------------------------------------------------------------------</td>
<td>------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>P19</td>
<td>Closing speed</td>
<td>1: slowest speed at 10: fastest speed Default value: 5</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
<tr>
<td>P20</td>
<td>Opening speed</td>
<td>1: slowest speed at 10: fastest speed Default value: 5</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
<tr>
<td>P21</td>
<td>Closing slowdown zone</td>
<td>1: shortest slowdown zone at 5: longest slowdown zone Default value: 1</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
<tr>
<td>P22</td>
<td>Opening slowdown zone</td>
<td>1: shortest slowdown zone at 5: longest slowdown zone Default value: 1</td>
<td></td>
<td>If the torque is too low, there may be erratic obstacle detection. If the torque is too high, the installation may not comply with the standard.</td>
</tr>
<tr>
<td>P25</td>
<td>Closing torque limitation</td>
<td>1: minimum torque at 10: maximum torque Adjusted at the end of auto-programming</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
<tr>
<td>P26</td>
<td>Opening torque limitation</td>
<td>1: minimum torque at 10: maximum torque Adjusted at the end of auto-programming</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
<tr>
<td>P27</td>
<td>Closing slowdown torque limitation</td>
<td>1: minimum torque at 10: maximum torque Adjusted at the end of auto-programming</td>
<td></td>
<td>If the torque is too low, there may be erratic obstacle detection. If the torque is too high, the installation may not comply with the standard.</td>
</tr>
<tr>
<td>P28</td>
<td>Opening slowdown torque limitation</td>
<td>1: minimum torque at 10: maximum torque Adjusted at the end of auto-programming</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
<tr>
<td>P33</td>
<td>Obstacle detection sensitivity</td>
<td>0: low sensitivity 1: low sensitivity 2: standard 3: high sensitivity</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
<tr>
<td>P37</td>
<td>Wired control inputs</td>
<td>0: complete cycle mode - pedestrian cycle 1: opening mode - closing</td>
<td>0: terminal 9 input = pedestrian cycle, terminal 11 input = complete cycle 1: terminal 9 input = opening only, terminal 11 input = closing only</td>
<td></td>
</tr>
<tr>
<td>P40</td>
<td>Coupling speed when closing</td>
<td>1: slowest speed at 4: fastest speed Default value: 2</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
<tr>
<td>P41</td>
<td>Coupling speed when opening</td>
<td>1: slowest speed at 4: fastest speed Default value: 2</td>
<td></td>
<td>If this parameter is modified, it is essential to perform the force measuring procedure at the end of the installation operation or to install a safety edge.</td>
</tr>
</tbody>
</table>
MEMORISING THE REMOTE CONTROLS

General information

Remote control types
There are two types of remote control:
• monodirectional: Keygo io, Situo io, Smoove io
• bidirectional with information feedback function (remote controls indicate the movement in progress and issue confirmation of correct operation): Keytis io, Telis 1 io, Telis Composio io, Impresario Chronis io

Memorising the remote controls
There are two ways to memorise a remote control:
• Memorising via the programming interface.
• Memorising by copying a previously memorised remote control.
Each control button is memorised individually.
Memorising a button which has already been memorised will clear this button's function.

Meaning of displayed codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add</td>
<td>Successful memorisation of a monodirectional remote control</td>
</tr>
<tr>
<td>- - -</td>
<td>Successful memorisation of a bidirectional remote control</td>
</tr>
<tr>
<td>dEL</td>
<td>Delete a previously memorised button</td>
</tr>
<tr>
<td>rEF</td>
<td>Unsuccessful memorisation of a bidirectional remote control</td>
</tr>
<tr>
<td>FuL</td>
<td>Memory full (only for monodirectional remote controls)</td>
</tr>
</tbody>
</table>

Memorising the Keygo io remote controls

Memorising via the programming interface

• COMPLETE opening control

• PEDESTRIAN opening control

• LIGHTING control

• AUXILIARY OUTPUT control (P15 = 4.5 or 6)
Memorising by copying a previously memorised Keygo io remote control

This operation is used to copy the programming from a previously memorised remote control button.

[1]. Press the outer left and right buttons on the previously memorised remote control together until the green indicator light flashes.

[2]. Press and hold the button to be copied on the previously memorised remote control for 2 seconds.

[3]. Briefly press the outer left and right buttons on the new remote control together.

[4]. Briefly press the selected button to actuate the motorisation on the new remote control.

Memorising the Keytis io remote controls

The Keytis io remote control system key memorising and copy memorising operations can only be carried out at the installation site. To obtain authorisation to transfer its system key or programming, the previously memorised remote control must be able to establish radio communication with a receiver on the installation.

If the installation already includes other io-homecontrol® products with at least one memorised bidirectional remote control, the Keytis io remote control must first memorise the system key (see below).

A previously memorised button cannot be memorised on a second receiver. To find out whether a button has already been memorised, press it:

• button already memorised → green indicator light comes on.
• button not memorised → orange indicator light comes on.

To clear a previously memorised button, refer to the section entitled Clearing individual buttons on the Keytis io remote control.

Button functions on a Keytis io remote control

• F0 or F1 memorisation: COMPLETE opening control by pressing and holding and PEDESTRIAN opening control by briefly pressing the button
• F2 memorisation: remote lighting control ON/OFF by briefly pressing the button
• F3 memorisation: auxiliary output control ON/OFF by briefly pressing the button

Memorising the system key

This step must be performed if the installation already includes other io-homecontrol® products with at least one memorised bidirectional remote control.

If the Keytis io remote control to be memorised is the first remote control on the system, go directly to the step “Memorising the Keytis io remote control”.

[1]. Setting the memorised remote control to key transfer mode:

• Keytis io, Telis io, Impresario io, Composio io remote controls: press the “KEY” button until the green indicator light comes on (2 s).
• Other remote control: refer to the instructions.

[2]. Briefly press the “KEY” button on the new remote control. Wait for the confirmation beep (a few seconds).
Memorising via the programming interface

If the installation already includes other io-homecontrol® products with at least one memorised bidirectional remote control, the Keytis io remote control must first memorise the system key (see page 17).

1. Press and hold the “PROG” button (2 s) on the programming interface.

   Note: Pressing “PROG” again allows the next function to be memorised.

   Memorising the Keytis io remote control in F0 or F1 mode enables the gate to be controlled in complete opening mode by pressing and holding, and in pedestrian opening mode by briefly pressing the selected button to actuate the motor.

2. Briefly press the “PROG” button on the remote control.

   Wait for the second beep and the green indicator light to start flashing rapidly.

   This may take from a few seconds up to around 1 minute, depending on the number of products present in the system.

3. Briefly press the selected button to actuate the motor.

   The remote control emits a confirmation beep.

   ![Diagram](image.png)

Memorising by copying a previously memorised Keytis io remote control

• Complete copying of a Keytis io remote control

This operation is used to copy all the buttons on a previously memorised remote control.

The new remote control must not be memorised for another automatic control system.

Ensure that the new remote control has memorised the system key.

1. Press the “PROG” button on the memorised remote control until the green indicator light comes on (2 s).

2. Briefly press the “PROG” button on the new remote control.

   Wait for the second beep and the green indicator light to start flashing rapidly (a few seconds).

   ![Diagram](image.png)

• Copying individual buttons on the Keytis io remote control

This operation is used to copy the memorisation of a single button on a previously memorised remote control to a blank button on a new remote control.

Ensure that the new remote control has memorised the system key.

1. Press the “PROG” button on the memorised remote control until the green indicator light comes on (2 s).

2. Briefly press the button to be copied on the previously memorised remote control.

3. Briefly press the “PROG” button on the new remote control.

   Wait for the confirmation beep (a few seconds).

4. Briefly press the selected button to actuate the motor on the new remote control.

   ![Diagram](image.png)

It is not possible to memorise Keytis io remote controls in the following cases:

• The remote control has not memorised the system key.
• Several of the installation's receivers are in programming mode.
• Several remote controls are in key transfer or memorisation mode.

Incorrect memorisation is indicated by a rapid series of beeps accompanied by a flashing orange indicator light on the Keytis remote control.
Memorising 3-button remote controls (Telis io, Telis Composio io, etc.)

Button functions on a 3-button remote control

<table>
<thead>
<tr>
<th></th>
<th>^</th>
<th>my</th>
<th>v</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0</td>
<td>Complete opening</td>
<td>Stop</td>
<td>Complete closing</td>
</tr>
<tr>
<td>F1</td>
<td>Complete opening</td>
<td>Stop</td>
<td>Complete closing</td>
</tr>
<tr>
<td>F2</td>
<td>Lighting ON</td>
<td>Lighting OFF</td>
<td></td>
</tr>
<tr>
<td>F3</td>
<td>Aux. output ON</td>
<td>Aux. output OFF</td>
<td></td>
</tr>
</tbody>
</table>

Memorising via the programming interface

To memorise a 3-button io bidirectional remote control (Telis io, Impresario Chronis io, etc.), ensure that the remote control has memorised the system key (see page 17).

1. Press and hold the "PROG" button (2 s) on the programming interface. The screen displays "F0".
   Note: pressing "PROG" again allows the next function to be memorised.
2. Press "PROG" at the rear of the 3-button remote control to memorise the function. The screen displays "Add".

Memorising by copying a previously memorised 3-button io remote control

CLEARING THE REMOTE CONTROLS AND ALL SETTINGS

Clearing individual buttons on the Keytis io or Keygo io remote controls

This can be done:
• by memorising via the programming interface.
  Memorising a button which has already been memorised will clear this button's function.
• by clearing directly on the remote control (only on Keytis io remote controls).
  Press the "PROG" button and the BUTTON to be cleared on the remote control together.

Clearing the memorised remote controls

Causes all memorised remote controls and the memorised system key to be cleared.

Note: On Keytis io remote controls, repeat the direct clearing procedure described above for all of the memorised remote control buttons.
Keytis io remote control general reset
Press the "PROG" and "KEY" buttons together. This causes:
- the programming to be completely cleared (all buttons),
- all the settings on the remote control to be cleared (refer to the instructions for the Keytis io remote control),
- the system key memorised by the remote control to be modified.

Clearing all settings
Clears the auto-programming and resets the default values for all parameters.

LOCKING THE PROGRAMMING BUTTONS
Locks the programming (end limits, auto-programming, parameter settings).
When the programming buttons are locked, a dot appears after the 1st digit.
Press the "SET", "*" and "-" buttons simultaneously.
- the "SET" button must be pressed first.
- the "*" and "-" buttons must be pressed within 2 seconds.
To access the programming again, repeat this procedure.

DIAGNOSTICS
Operating code display

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>Awaiting command</td>
<td></td>
</tr>
<tr>
<td>C2</td>
<td>Gate opening</td>
<td></td>
</tr>
<tr>
<td>C3</td>
<td>Awaiting gate closure</td>
<td>Automatic closing time delay P02, P04 or P05 in progress.</td>
</tr>
<tr>
<td>C4</td>
<td>Gate closing</td>
<td></td>
</tr>
<tr>
<td>C6</td>
<td>Detection in progress for cell safety</td>
<td></td>
</tr>
<tr>
<td>C7</td>
<td>Detection in progress for safety edge safety</td>
<td></td>
</tr>
<tr>
<td>C8</td>
<td>Detection in progress for programmable safety</td>
<td></td>
</tr>
<tr>
<td>C9</td>
<td>Detection in progress for emergency stop safety</td>
<td></td>
</tr>
<tr>
<td>C12</td>
<td>Reinjecting current</td>
<td></td>
</tr>
<tr>
<td>C13</td>
<td>Safety device autotest in progress</td>
<td></td>
</tr>
<tr>
<td>C14</td>
<td>Permanent complete opening wire control input</td>
<td>Indicates that the complete opening wire control input is permanently activated (contact closed). Commands coming from the radio remote controls are then disabled.</td>
</tr>
<tr>
<td>C15</td>
<td>Permanent pedestrian opening wire control input</td>
<td>Indicates that the pedestrian opening wire control input is permanently activated (contact closed). Commands coming from the radio remote controls are then disabled.</td>
</tr>
<tr>
<td>C16</td>
<td>BUS cell programming refused</td>
<td>Check that the BUS cells (wiring, alignment, etc.) are operating correctly</td>
</tr>
<tr>
<td>Cc1</td>
<td>9.6 V power supply</td>
<td>Displayed during operation with 9.6 V backup battery</td>
</tr>
<tr>
<td>Cu1</td>
<td>24 V power supply</td>
<td>Displayed during operation with 24 V backup battery</td>
</tr>
</tbody>
</table>
Programming code display

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>H0</td>
<td>Awaiting setting</td>
<td>Pressing and holding the &quot;SET&quot; button for 2 seconds starts auto-programming mode.</td>
</tr>
<tr>
<td>H1</td>
<td>Awaiting start of auto-programming</td>
<td>Pressing the &quot;OK&quot; button starts the auto-programming cycle. Pressing the &quot;+&quot; or &quot;-&quot; button allows the motor to be controlled in forced operation mode.</td>
</tr>
<tr>
<td>H2</td>
<td>Auto-programming mode - opening</td>
<td></td>
</tr>
<tr>
<td>H4</td>
<td>Auto-programming mode - closing</td>
<td></td>
</tr>
<tr>
<td>F0</td>
<td>Awaiting remote control memorisation for operation in complete opening mode</td>
<td>Pressing a button on the remote control allocates this button to the motor complete opening control. Pressing &quot;PROG&quot; once more switches to &quot;awaiting remote control memorisation for operation in pedestrian opening mode: F1&quot;.</td>
</tr>
<tr>
<td>F1</td>
<td>Awaiting remote control memorisation for operation in pedestrian opening mode</td>
<td>Pressing a button on the remote control allocates this button to the motor partial opening control. Pressing &quot;PROG&quot; once more switches to &quot;awaiting remote lighting control memorisation: F2&quot;.</td>
</tr>
<tr>
<td>F2</td>
<td>Awaiting remote control memorisation for remote lighting control</td>
<td>Pressing a button on the remote control allocates this button to the remote lighting control. Pressing &quot;PROG&quot; once more switches to &quot;awaiting auxiliary output control memorisation: F3&quot;.</td>
</tr>
<tr>
<td>F3</td>
<td>Awaiting remote control memorisation for auxiliary output control</td>
<td>Pressing a button on the remote control allocates this button to the remote lighting control. Pressing &quot;PROG&quot; once more switches to &quot;awaiting remote control memorisation for operation in complete opening mode: F0&quot;.</td>
</tr>
</tbody>
</table>

Fault and breakdown code display

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Comments</th>
<th>Solution?</th>
</tr>
</thead>
<tbody>
<tr>
<td>E1</td>
<td>Cell safety autotest fault</td>
<td>The cell autotest is not satisfactory.</td>
<td>Check that &quot;P07&quot; is correctly configured. Check the wiring of the cells.</td>
</tr>
<tr>
<td>E2</td>
<td>Programmable safety autotest fault</td>
<td>The programmable safety input autotest is not satisfactory.</td>
<td>Check that &quot;P09&quot; is correctly configured. Check the programmable safety input wiring.</td>
</tr>
<tr>
<td>E3</td>
<td>Defective safety edge autotest</td>
<td>The safety edge autotest is not satisfactory.</td>
<td>Check that &quot;P08&quot; is correctly configured. Check the safety edge wiring.</td>
</tr>
<tr>
<td>E4</td>
<td>Obstacle detection when opening</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E5</td>
<td>Obstacle detection when closing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E6</td>
<td>Cell safety fault</td>
<td>Detection in progress on safety input for longer than 3 minutes.</td>
<td>Check that no obstacles are causing the cells or safety edge to detect. Check that &quot;P07&quot;, &quot;P08&quot; or &quot;P09&quot; is correctly configured in relation to the device connected to the safety input. Check the safety device wiring. Check that the photoelectric cells are correctly aligned.</td>
</tr>
<tr>
<td>E7</td>
<td>Safety edge safety fault</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E8</td>
<td>Programmable safety fault</td>
<td>The accessories power supply cuts out following an overload (excessive consumption)</td>
<td></td>
</tr>
<tr>
<td>E10</td>
<td>Motor short circuit protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E13</td>
<td>Accessories power supply fault</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E14</td>
<td>Intrusion fault</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E15</td>
<td>Fault when the motor supplied by the backup battery is first switched on</td>
<td></td>
<td>Disconnect the backup battery and connect the motor to the mains to switch it on for the first time.</td>
</tr>
</tbody>
</table>

Accessing memorised data

To access memorised data, select parameter "Ud" then press "OK".

<table>
<thead>
<tr>
<th>Data</th>
<th>Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>U0</td>
<td>Complete opening cycle counter</td>
<td>global [Hundred thousands - ten thousands - thousands] [hundreds - tens - units]</td>
</tr>
<tr>
<td>U2</td>
<td>Since last auto-programming</td>
<td>since last auto-programming [Hundred thousands - ten thousands - thousands] [hundreds - tens - units]</td>
</tr>
<tr>
<td>U6</td>
<td>Cycle counter with obstacle detection</td>
<td>global [Hundred thousands - ten thousands - thousands] [hundreds - tens - units]</td>
</tr>
<tr>
<td>U8</td>
<td>Since last auto-programming</td>
<td>since last auto-programming [Hundred thousands - ten thousands - thousands] [hundreds - tens - units]</td>
</tr>
<tr>
<td>U12</td>
<td>Pedestrian opening cycle counter</td>
<td></td>
</tr>
<tr>
<td>U14</td>
<td>Reset movement counter</td>
<td></td>
</tr>
<tr>
<td>U20</td>
<td>Number of monodirectional remote controls</td>
<td></td>
</tr>
<tr>
<td>U21</td>
<td>Memorised for complete opening control</td>
<td></td>
</tr>
<tr>
<td>U22</td>
<td>Number of monodirectional remote controls</td>
<td></td>
</tr>
<tr>
<td>U23</td>
<td>Memorised for pedestrian opening control</td>
<td></td>
</tr>
<tr>
<td>d0</td>
<td>Log of the last 10 faults (d0 most recent - d9 oldest)</td>
<td></td>
</tr>
<tr>
<td>dd</td>
<td>Clear the fault log: press and hold &quot;OK&quot; for 7 s.</td>
<td></td>
</tr>
</tbody>
</table>

Inputs/outputs short circuit protection

Non-operation of the product and the devices connected to terminals 21 to 26 (amber light, photoelectric cells (except BUS), code keypad, safety edge)

In case of a short circuit on terminals 21 to 26, no corresponding fault code will be displayed. Check the device wiring and switch off the power supply during 10 seconds.

Nota: Accessories supply output = 1.2 A max.
## TECHNICAL DATA

### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Power supply</th>
<th>230 V - 50 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. power consumption</td>
<td>5 W - 600 W (with 500 W remote lighting)</td>
</tr>
<tr>
<td>Programming interface</td>
<td>7 buttons - 3-character LCD screen</td>
</tr>
<tr>
<td>Climatic operating conditions</td>
<td>-20°C/+60°C - IP 44</td>
</tr>
<tr>
<td>Somfy radio frequency</td>
<td>868 - 870 MHz</td>
</tr>
<tr>
<td>Number of memorisable channels</td>
<td>Monodirectional controls (Keygo io, Situo io, etc.) Complete/pedestrian opening control: 30 Lighting control: 4 Auxiliary output control: 4</td>
</tr>
<tr>
<td></td>
<td>Bidirectional controls (Keytis io, Telis io, Composio io, etc.) Unlimited</td>
</tr>
</tbody>
</table>

### CONNECTIONS

<table>
<thead>
<tr>
<th>Programmable safety input</th>
<th>Type</th>
<th>Compatibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wired control input</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote lighting output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orange light output</td>
<td></td>
<td>24 V - 15 W with integrated flashing management</td>
</tr>
<tr>
<td>24 V controlled power supply output</td>
<td>Yes: for possible autotest on TX/RX photoelectric cells</td>
<td></td>
</tr>
<tr>
<td>Safety input test output</td>
<td>Yes: for possible autotest on reflex cell or safety edge</td>
<td></td>
</tr>
<tr>
<td>Accessories supply output</td>
<td>24 V - 1.2 A max</td>
<td></td>
</tr>
<tr>
<td>Offset aerial input</td>
<td>Yes: compatible with io aerial (Ref. 9013953)</td>
<td></td>
</tr>
<tr>
<td>Backup battery input</td>
<td>Life</td>
<td>Yes: compatible with 9.6V battery packs (Ref. 9001001) and 24V (Ref. 9014609) 24 hours; 3 to cycles depending on the gate Charge time: 48 hours</td>
</tr>
</tbody>
</table>

### OPERATION

| Forced operating mode | By pressing and holding the motor control button |
| Independent remote lighting control | Yes |
| Timed lighting (after movement) | Programmable: 60 to 600 s |
| Automatic closing mode | Yes: programmable reclosing time delay from 0 to 255 min |
| Orange light warning | Programmable: without or with warning (fixed at 2 s) |
| Security entry operation | When closing Programmable: stop - partial reopening - complete reopening |
|                         | Before opening (ADMAP) Programmable: no effect or movement refused |
| Partial opening control | Yes |
| Gradual starting | Yes |
| Opening speed | Programmable: 10 possible values |
| Closing speed | Programmable: 10 possible values |
| Coupling speed when closing | Programmable: 5 possible values |
| Diagnostics | Saving and consulting data: cycle counter, cycle counter with obstacle detection, number of memorised radio channels, log of the last 10 stored faults |