AUTOMATION FOR GARAGE DOORS
CHAIN-GUIDED AUTOMATION FOR
SECTIONAL DOORS

Cardin Trade Trade
Series GL Zen

Chain guided automation for residential sectional and counterbalanced doors up to 12m². An efficient and robust 24V propulsion unit with an in-built programmer fitted with all the elements for operation under all working conditions, it slots together with a steel chain driven transmission guide available in various lengths.

The propulsion unit is commanded by state of the art logic based on encoder control, with deceleration in the opening and closing directions, which tracks the movement of the door. The system is based on a self-learning programming procedure with function setting using dip-switches.

The automation is fitted with courtesy lights and an input specifically tailored for 8K2 safety edges.

The manual release mechanism used to detach the carriage from the chain guide is carried out using a release cord that separates the door from the automation. Repositioning takes place automatically whenever foreign objects get in the way of the door as it is moving.

The electronic control unit is completed by the anti-crush and “soft start” and “soft stop” functions.

The complete range of products have been designed and constructed in accordance with the safety standards in force and feature automatic, semi-automatic, manual and remote control functions.

Open collector:
The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

Chain guide to be ordered apart.
CARPIN TRADE

SERIES GL

SELF-LOCKING GARAGE DOOR MOTOR
for residential use, with an encoder-controlled 24V motor and in-built electronic programmer with LED courtesy lights. Maximum drag force 600N.

SELFL-LOCKING GARAGE DOOR MOTOR
for residential use, with an encoder-controlled 24V motor and in-built electronic programmer with LED courtesy lights. Maximum drag force 1000N.

BELT GUIDE
Pre-assembled single unit belt guide and accessories. (length 3200mm)
2 piece pre-assembled belt guide and accessories. (length 1600mm - 1600mm)
3 piece pre-assembled belt guide and accessories. (length 1600mm - 1600mm - 1060mm)
EXTERNAL RELEASE CORD KIT
with a personalised key for counterbalanced or sectional garage doors.

ADAPTER
Allows the chain guided automation to be used on counterbalanced
garage doors.

FASTENING BRACKETS

HOLDING BRACKET
Large holding bracket for heavy doors.

BATTERY CHARGER
for use with 24V programmers.

EXTERNAL BOX
with 2 batteries 12V 7Ah.

POWER SUPPLY KIT
Solar panels for use with all 24Vdc automation.
CARIDIN TRADE
SERIES GL

**MOTOR SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>GL ZEN60E</th>
<th>GL ZEN100E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor power supply</td>
<td>Vdc</td>
<td>24</td>
</tr>
<tr>
<td>Nominal electrical input</td>
<td>A</td>
<td>4</td>
</tr>
<tr>
<td>Power input</td>
<td>W</td>
<td>100</td>
</tr>
<tr>
<td>Duty cycle</td>
<td>%</td>
<td>60</td>
</tr>
<tr>
<td>Drag speed</td>
<td>m/min</td>
<td>9</td>
</tr>
<tr>
<td>Maximum thrust</td>
<td>N</td>
<td>600</td>
</tr>
<tr>
<td>Max. travel distance</td>
<td>mm</td>
<td>3900</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>°C</td>
<td>20...+55</td>
</tr>
<tr>
<td>Protection grade</td>
<td>IP</td>
<td>30</td>
</tr>
</tbody>
</table>

**PROGRAMMER SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>GL ZEN60E</th>
<th>GL ZEN100E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>Vdc</td>
<td>24</td>
</tr>
<tr>
<td>Nominal electrical input</td>
<td>A</td>
<td>4</td>
</tr>
<tr>
<td>Maximum power yield</td>
<td>W</td>
<td>230</td>
</tr>
</tbody>
</table>

**OPTIONAL RECEIVER CARD**

The product range is factory set for the insertion of an open collector receiver card that guarantees compatibility with all the radio control series available in the Cardin catalogue.

**INSTALLATION EXAMPLE**

**LEGEND**

1. Geared motor + built-in programmer
2. Photoelectric cells
3. Mechanical selector switch
4. Anti crush safety edge
5. Release cord
6. External warning lights with aerial
7. Wall mounted switch TB - TD
8. Shunt box
9. All pole circuit breaker
10. Mains cable 230Vac
11. Channelling route for low voltage wires
12. Sun Power
13. Solar panels

**Attention:** The drawing is purely indicative and is supplied as a working base from which to choose the Cardin electronic components making up the installation. This drawing therefore does not lay down any obligations regarding the execution of the installation.