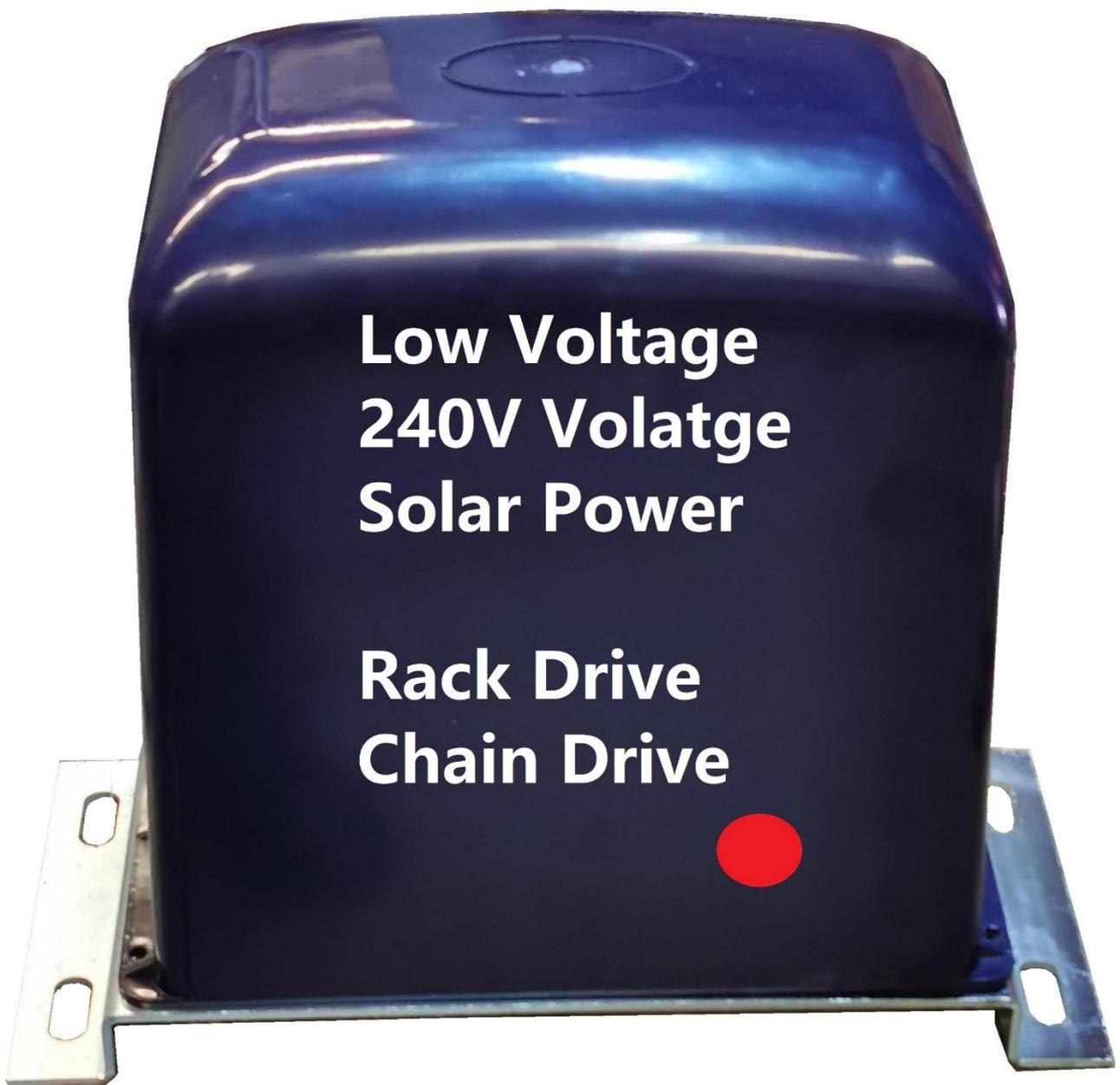


SL500 Sliding Gate Motor Rack Drive
SL500 Sliding Gate Motor Chain Drive

Version –V2.0



ATTENTION To prevent electrical shock, disconnect from power source before installing or service

 ATTENTION Electricity and power motors associated accessories could be fatal or at least cause seriously injury. **All main voltage wiring must be installed by a licensed electrician.**

 ATTENTION Additional safety device MUST be fitted such as Photo Electric Beam, Loop Detectors.

 ATTENTION Before do the manual release, the mains power switch must be off even there is no power.

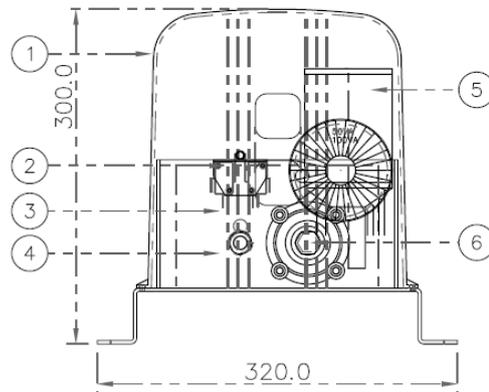
 ATTENTION Before power on, the manual release MUST engaged

 ATTENTION Gate opened stopper and closed gate stopper MUST be installed.

Contains

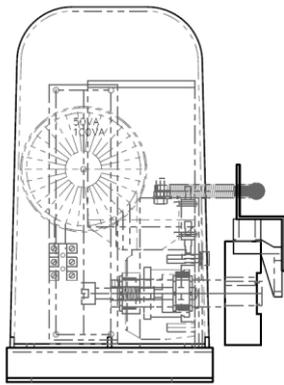
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GENERA LAYOUT

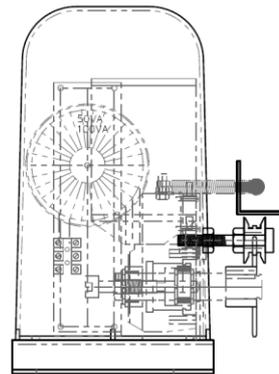


- 1) Motor Cabinet
- 2) Limit Switch
- 3) Steel base

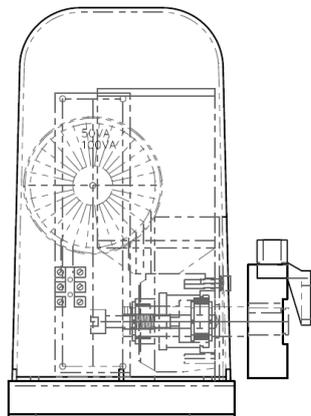
- 4) Chain drive guide roller
- 5) 12V motor
- 6) Manual release



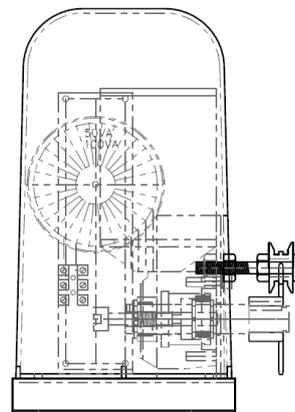
Limit Rack Drive



Limit Chain Drive



Encoder Rack Drive



Encoder Chain drive

CONTROL INPUT AND BUTTON

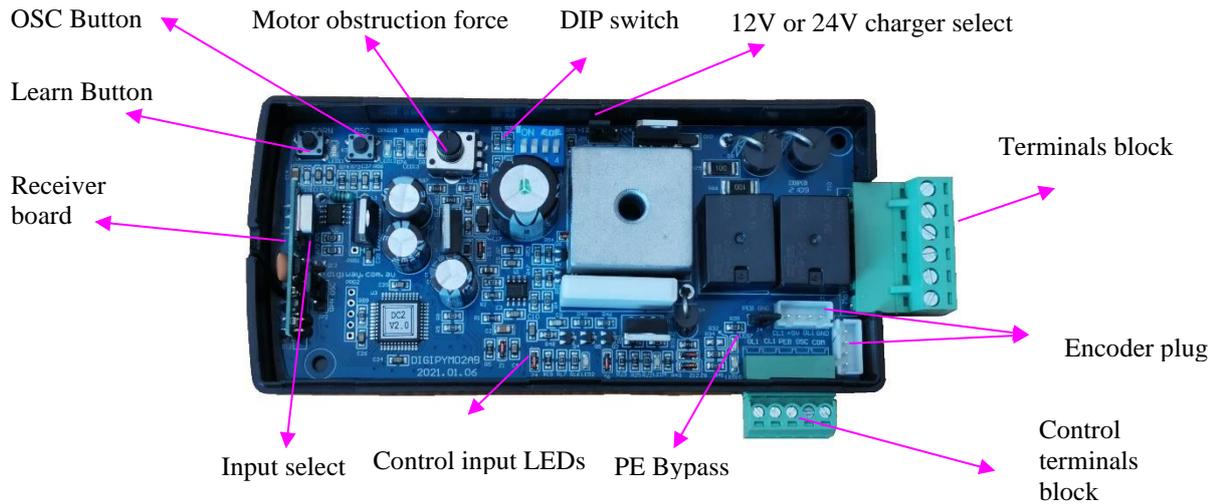
1. General Descriptions

The SL500 sliding gate motors was designed for domestic sliding gate or swing gate, rack drive or chain drive, limit switch or encoder control. The controller can receive the signals from swipe card, loop detectors, remote control, photo-electric beams and any kind of access control system. Metal zinc plated base.

2. Technical Specifications

| | |
|--------------------|---|
| Power supply | 230/240V AC, low voltage, solar panel |
| Output voltage | 12V |
| Motor rate | 12V DC 100W geared motor |
| Gate type | track, cantilever gate, rack or chain drive |
| Drive speed | Up to 200mm/sec |
| Max. Gate length | 10M |
| Fully programmable | Auto close time |
| Access control | Remote, Keypad, Switch, Push Button etc. |

3. Control Board layout



CONTROL INPUT AND BUTTON

4. Control Board Input

OSC input

The OSC inputs terminal input can be from switch, push button or relay (from any other brand standalone receiver) N/O. It became active when short to COM. This terminal can be set to OSC or OPN function by jumper on board. If keep active, gate will stay open.

PEB input

If the P.E input activated while gate is closing, the gate will stop or reopen. If the gate in the opened position and P.E beam activated, the gate will stay in opened.

CLS limit input

If gate is closing cycle, when CLS limit is active, gate will stop and controller will display closed. If controller working encode model, this terminal no function

OPEN limit input

If gate is opening cycle, when OPN limit is active, gate will stop and controller will display opened. If controller working encode model, this terminal no function

OSC button

The OSC button operate gate (Push Open, push again Stop, push again Close) and set auto close time.

Encoder inputs

Encoder is mounted on the motor shaft inside of motor. it is not serviceable by customer. There are two four pins socket on control board, one for right hand gate and other one for left hand gate.

5. DIP SWICTH FUNCTION

| | | |
|-----------------------------|-------------|-----------------|
| DIP1 – SET/RUN | ON=SET, | OFF=RUN |
| DIP2 – ENCODER/LIMIT | ON=ENCODER | OFF=LIMIT |
| DIP3 – POWER SELECT | ON= 80% | OFF= 100% |
| DIP4 -- AUTO CLS | ON=AUTO CLS | OFF=NO AUTO CLS |

6. Motor Set up

6.1 Encoder control --- DIP2=ON

Motor installation as other motor and do not mention here.

Default setting is gate closing to left. If gate close to right, you need swap two motor wires and move the encoder plug to J1. Make sure gate has opened and closed stopper installed, then power up, push OSC button or remote, after two completely operation cycle, controller will be automatically programmed. Do not need do anything.

6.2 Limit control --- DIP2=OFF

Default setting is gate close to left. If gate close to right, you need swap two motor wires and swap close and open limit switch input. Push OSC button or remote, after two completely operation cycle, controller will be automatically programmed. Do not need do anything.

6.3 Timers setting

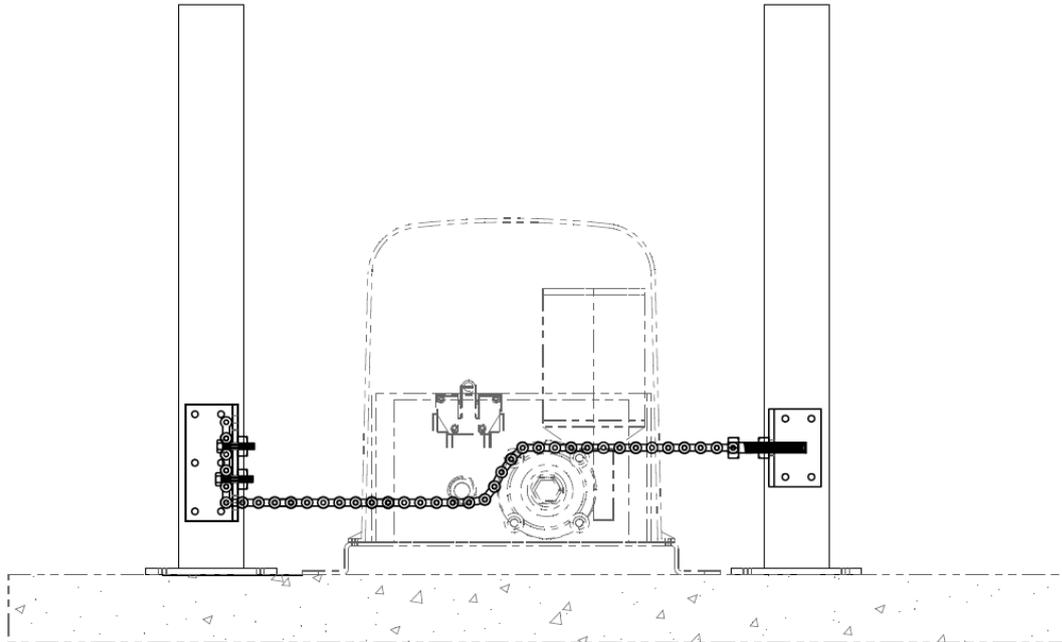
Auto close time set

Set DISP1 On, push and hold on OSC, the time you push and hold OSC button is the time of gate auto close time. when reached the required time simply release OSC button. Set DIP1

OFF. The gate controller will back to working mode. Factory default auto close time is 30 seconds

To restore factory setting, turn power off and set DIP1 on, push and hold CLS button then power on. While hold CLS button, set DIP1 off, release the CLS button. Now controller restored factory setting from memory.

7. Chain drive System Setup



This is the drawing for chain drive setup. Not need to mention the details and all those are quite simple mechanical work.

8. Power Supply and drive type

This motor has three different power can be choose. 240V, Low voltage and Solar.

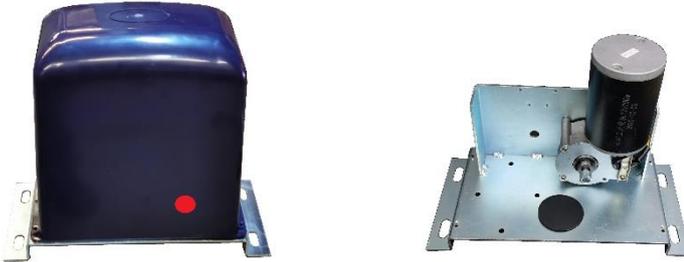
If has 240V power near at the gate, then use 240V version SL500 either encoder or limit control.

If no 240V power at gate, but has 240V power in the garage or house, then choose SL500LV low voltage model. Run 12V low voltage to the gate. Suggest use 2.5mm garden light cables either directly bury in the ground or in conduit.

If no 240V power at the gate and nearby, then use solar. 20W or 40W 12V solar panel and 12V7Ah battery is good enough for normal use. If gate is more frequently used and the sun light is not very good, then properly increasing solar panel power and battery size.

9. Manual release

A: What to do during a power failure (battery run out) or faulty:



If got battery back, then take the red cap off or take whole cover off, using the 8mm Allen key, insert to the release bolts holes or use hand, clockwise turn the bolts several turns, then can manually push gate open.

Re-engage the motor, turn the manually release bolts several turns, manually move gate, gate will engage.

Reset power (initialization), remove the 6 pins plug (AC power, battery and motor), wait about 20 seconds, then plug it back. Use remote or push button operate the gate, controller will automatic reprogrammed.

TROUBLE SHOOTING GUIDE

10. Trouble Shooting Guide

10.1 Display information on main control board.

Between Pot and OSC button on the control board, there are two LEDs --- GREEN and RED. Different combination and show different gate situations.

(1) Gate status LED

| Gate Status (Position) \ LEDs | Status LED-Green | Status LED-Red | |
|-------------------------------|----------------------|----------------------|--|
| Gate in closed position | Slow Flash | on | |
| Gate is opening | Fast flash | off | |
| Gate in opened position | on | Slow flash | |
| Gate is closing | off | Fast flash | |
| Gate stop in the middle | Alternatively, flash | Alternatively, flash | |

Gate stop in the middle: which means the gate stop by OSC input and at this position the auto close does not apply.

(2) Input LEDs

| Inputs LEDs\ Input status | Input Active | Input inactive | |
|----------------------------------|--------------|----------------|--|
| OSC LED--- OSC input | on | off | |
| PEB LED --- Photo Electric Beam- | on | off | |
| Open Limit LED | off | on | |
| Close Limit LED | off | on | |

10.2 Trouble Shooting Guide

| Malfunction | Possible causes | What to do |
|--|---|---|
| Gate not open | 1) No power 2) Already in opened position | 1) Check the power 2) Reset the power, remove 6 pins plug and wait 20 seconds, and plug it back |
| Gate not close | 1) Safety input PEB active, PEB LED is on 2) OSC input active, OSC LED is on | 1) Check the safety device, N/C contact required. 2) Check control switch button in case it is on |
| Gate run little bit then stop and both Status LEDs flash | 1) No encoder input 2) mechanical jammed | 1) encoder plug wrong or faulty 2) power off and disengage the motor and push and pull the gate manually |
| Gate opened or closed position not right | 1) encoder or limit wrong 2) Rack jumps over drive pinion | 1) Reset the power, remove 6 pins plug and wait 20 seconds, and plug it back |

CONDITION OF SALE

1. Orders

The placement of any orders upon Digiway implies acceptance of these terms and conditions and takes precedence over any other terms and conditions written or oral.

2. Deliveries

(a) Time of delivery will be complied with wherever possible. It is not guaranteed and is subject to extensions to cover delays caused by strikes, vehicle breakdown, traffic delays, weather and any causes beyond Digiway's control.

(b) The Purchaser shall not be entitled to be compensated for any loss or damage due to any of the causes stated.

(c) Most of the motors are stock items, but temporarily runs out of stock. Restock time can experience of approximately 8-12 weeks from receipt of official written order.

3. Warranty

(a) Digiway has 12 months return base warrants from date of purchase in normal use condition.

(b) Digiway control boards can be up to two years warranty. subject the application conditions.

(c) In lieu of all other warranties expressed or implied. Digiway shall not be liable for any special indirect, incidental or consequent damages of any kind or nature. Equipment manufactured and installed by it to be free from defects in material and workmanship for. Digiway will repair or replace at its option any product or part which it determines to contain defective material and workmanship. Defective parts must be returned to Digiway for repair or replacement. Costs associated with the return of the goods will be the responsibility of the sender. On site repairs will incur travel and labor charges. Liability for replacement parts or repairs carried out by Digiway does not extend the original twelve-month warranty period.

4. Payment

(a) Unless agreed expressly in writing, otherwise the terms of payment shall be made prior to shipment or where agreed on completion of the installation. Methods of payment are by:

(i) Direct bank transfer with remittance advice supplied from purchaser.

(ii) Cheque's need to be received and cleared before shipment.

5. Returns

Returns only accepted within 14 days of invoice. Credits only paid after inspection of goods. All returns subject to 30% re-stocking fee on product. Damaged goods are subject to further charges to the value of the damage.