



DC2V4.2A SET UP



Control Board Main Features

DC2V4.2A is multifunction board, which can control one or two 12V or 24V DC motor(18-24V ac input) swing gate or sliding gate motor with or without limit switch. Slow start and slow stop, N/C or N/O limit switch inputs, Sync delay, PE trig close and auto close are selected by DIP switch. All timers are programmable on site. Maximum motor current 5A.

1: Limit Switch type:

N/C – DIP6 off, N/O – DIP6 on,

2: Motor Type:

A: Two wires system with limit switch and diode. If DIP6 off, limit input link to Com.

B: Linear drive two wires system. DIP6 On or OFF . If DIP6 ON, limit input link to Com. Opened and closed mechanical stopper must be installed. Adjust the pot to set right motor force/current.

C: Five wires system either DIP6 On or Off depending on application.

D: sliding gate motor. Can drive two sliding gate motor, maximum motor current is 5A.

3: Battery and solar

Solar and battery to be matched and sola charger is needed.

4: Default Max. motor runs time is 90 sec.

That means In ANY situations, motor can only runs 90 sec. in one direction.

5: Timer Settings, Turn DIP1 on

OPN button---Motor Open Delay Time

PED button---Lock Pulse Time

CLS button---PE Trig Close Time

OSC button---Auto Close Time

DIP1 On + Special setting.

OPN button---Motor Close Delay Time (Default same to Open Delay Time)

PED button---Spare , CLS button---Spare

OSC button---Spare

Then turn DIP1 off, setting finished.

LEARN REMOTE: Push button once, led flash, push twice wanted remote button.

DELET REMOTE: Push and hold button 8 seconds until led off, all remote are deleted

Motor Force, DIP3=ON 80%, DIP3=OFF 100%.

Motor force Limit: If motor current over the current setting, motor will stop or re-open.

NOLS=ON, DIP4=ON motor force limit at low speed zone will be 50% of pot setting. NOLS=OFF motor force limit will be 100% of pot setting

Motor Protection Fuse

DIP SWITCH

DIP1: SET/RUN: ON--Set, OFF--Run

DIP2: SYNC: ON-- M2 open delay; M1 close delay. OFF-- M1&M2 no delay .

DIP3: ON=70% power, OFF =100% power

DIP4: CODE: ON-- Encode. OFF-- Limit

DIP5 LKPS: ON--pulse output; OFF--Presence output :

DIP6 : NOLS: ON,N/O limit switch; OFF,N/C limit switch.

DIP7: PE TRIG CLOSE. ON—enable; DIP8 : AUTO CLOSE. ON—enable;

Remote
OPN OSC
Full Open

Ped Open

CLOSE

OSC

STOP

PE BEAM

COM

PHONE SYSTEM OR
OTHER GATE OPEN
SYTEM. DRY
CONTACT OUTPUT
REQUIRED

PE BEAM BY PASS,
AFTER CONNECT
PE BEAMS, TAKE
JUMPER OFF

STOP INPUT BY
PASS, IF USE STOP
INPUT, TAKE
JUMPER OFF

12 or 24V Lock/Light,
mag lock (NC).
NO=normal open
CO=Common
NC=Normal Close

DIP6=ON
M1 OLSW
M1 CLSW
M2 OLSW
M2 CLSW

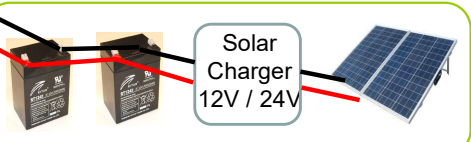
NO CO NC

V+ 0

12V or 24V

M2 M1

Dip4=on for encoder
motor M1 only. From
software 4.0 or late



Power up automatic learn:

Every time power up, controller will automatic learn ramp up and ramp down position. After several complete fully open and close operation, motor will runs at low speed when approach opened or closed

To Restore Factory Setting:

Turn power off and set DIP1 (SET) on, push and hold CLS button, then power on. While hold CLS button, set DIP1 off and then release the CLS button. Now controller restored factory setting from memory.

Get Into Special Setting:

Turn power off and set DIP1 (SET) on, push and hold CLS button, then power on. then release the CLS button. Now controller get into special setting mode

Encoder motor M1 set up.

- 1) Push and hold CLS button until CLSLED on and OPNLED off, then release CLS button, now CLSLED slowly flash, OPNLED off, this indicates controller get into closed position set up, push and hold CLS button bring gate to closed position, use OPN and CLS button find right closed position, then push OSC button to confirm. Now OPNLED slowly and CLSLED off, indicate get into opened position set up.
- 2) Push and hold OPN button to open gate. Release OPN button gate stop. Push and release PED button to save current position as pedestrian open position. At fully opened position, push and release OSC button to conform. Setting finished.
- 3) Push remote control or push button to test.