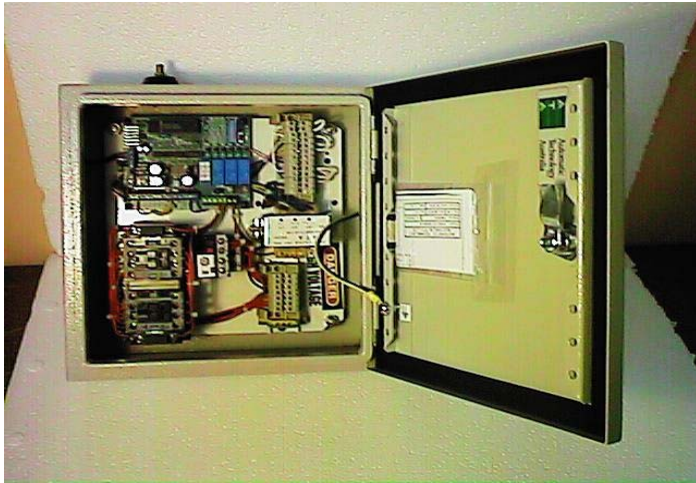




MAGDRIVE

Info



MAGDRIVE SL03-ATA SLIDE GATE DRIVE & ROLLER GRILL DOOR CONTROL

INSTALLATION GUIDE

SL03-RG03.Pub

Issue one

INSTRUCTION

Select a suitable position for and mount the CB6 control enclosure. Note it is necessary to provide mains isolation adjacent to this control.

Install and connect the appropriate wiring according to the following instruction and with reference to the connection diagram overleaf.

CONNECTING POWER

The control requires 240V AC max 5 amps. Connect to "A" "N" and the Earth terminal.

INSTALLING OPTIONS

Connect the optional plug in remote control receiver to "J1". Plug the optional light control relay module into "J15".

LIMIT SWITCH TERMINALS

The controller has normally closed limit switch inputs. That is the connected limit switch contact must open when the travel limit is reached. If limit switches are not used connect the input terminals directly to the COM terminal. Leave the limit switch inputs for a particular motor disconnected if that motor output is not used.

MOTOR TERMINALS

Connect one or two motors to the motor terminals M1 and M2. If only one motor is to be used use M1 terminals and leave M2 disconnected. Note the maximum combined motor current should not exceed 5 amps. Earth the motors via the earth terminal.

CONTROL INPUTS

The PE, OPN and STP inputs require a normally closed switch

contact and therefore must be shorted to the COM terminal if not used. The CLS, OSC, and PED inputs require a normally open switch contact and therefore should be left unconnected if not used. All the switch inputs of the control board including the limit switch inputs require a switch contact only. Do not connect any switches which provide a voltage to the control board as this will cause damage.

POWERING ACCESSORIES

Accessories which require a 24V AC supply can be powered from the transformer output used to power the control board via the "ISOLATED 24V AC SUPPLY" for terminals. Note that the transformer is able to provide a maximum of 0.25 amps for powering accessories. Never use the supply connected to "24V AC SUPPLY" terminals to power accessory as this can interfere with the control board operation. A 12V AC max 2 amp output is provided for powering other accessories.

LOCKS AND LIGHTS

Use the lock output terminals to switch the applied voltage to an electric lock (if fitted). The load switched by the lock output terminals must not exceed 30V AC/DC 5 amps. Use the light relay module (if fitted) to switch the applied voltage to a light. The load switched by the light relay module must not exceed 240V AC/30V DC 10 amps. Note the third transformer output of 12V AC max 2 amps may be used to power electric solenoid locks or lighting.

MODE SELECTION

Use the mode selection dip switch to select desired mode.

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Use the mode selection dip switch to select desired mode. Note times associated with the parameters marked with an * can be changed.

Position 1 SYNCHRONISING DELAY

- OFF No delay
- ON Motor 1 starts to open 2 seconds* before Motor 2 and Motor 2 starts to close 2 seconds* before Motor 1.

Position 2 PULSE LOCK OUTPUT

- OFF Lock output is activated for the entire motor drive cycle.
- ON Lock output pulses for 0.3 seconds* at the start of each drive cycle.

Position 3 LIGHT OUTPUTS WARNING

- OFF Optional module controls a light with timer which turns light off after 60 seconds*.
- ON Optional light module controls a warning light which activates whenever motors are on.

Position 4 SWIPE MODE (OSC INPUT)

- OFF OSC input terminal has standard Open, Close Stop action.
- ON OSC input terminal will only open the door/gate. The input also resets the P.E. triggered auto-close mode so that the P.E. input will need to be triggered again before a P.E. auto-close will be initiated.

Position 5 M2 OUTPUTS STATUS

- OFF The M2 output controls second motor.
- ON The M2 output controls status lights.

Position 6 P.E. STOPS CLOSE CYCLE

- OFF Activating the P.E. input while motors are closing causes the motors to reverse.
- ON Activating the P.E. input while the motors are closing causes the motors to stop but not reverse.

Position 7 P.E. STOPS OPEN CYCLE

- OFF Activating the P.E. input while motors are opening is ignored by the controller
- ON Activating the P.E. input while motors are opening causes the motors to stop.

Position 8 P.E. TRIGGERED AUTO-CLS

- OFF Not selected.
- ON Selects the P.E. triggered auto-close mode which causes the motors to auto-close if the P.E. input is activated then released. (Auto-close delay time is 0 seconds*).

Position 9 PEDESTRIAN AUTO-CLS

- OFF No pedestrian access auto-close

- ON Selects auto-close mode in the pedestrian access mode. (Auto-close delay time is 15 seconds*).

Position 10 STANDARD AUTO-CLS

- OFF Not selected.
- ON Selects standard auto-close mode which will close the motors after fully opening. (Auto-close delay time is 30 seconds*).

SETTING CYCLE TIMERS AND AUTO-CLOSE TIMES

The control board has pre-set cycle times which are used to set the maximum time the controller will drive the motors in the open and closed directions. The pre-programmed time for the open and close cycle timers is 60 seconds. The control board also has a pre-set pedestrian access time of 5 seconds which is intended to open the motor connected to M1 output only part way. If these default times do not suit your needs simply use the procedure below to adjust them. Note the same procedure can be used to adjust the auto-close times.

1. Place the slide switch into the "set" position
2. Adjust the timer's value by pressing and holding the required push button for the desired time.
3. Repeat step 2 for the next timer (if desired).
4. Place the slide switch back into the "RUN" position.
5. Test operation.

Make sure that the slide switch is placed back in the "RUN" position before testing the new timer value.

As you can see the procedure used to set each timer's value is the same, only the push button used changes. Each push button is clearly labelled underneath as to which timer's value it sets. NOTE when setting the OPEN, CLOSE and PEDESTRIAN cycle times the controller will drive the motors as if a "real" cycle is being executed. The difference being that the motors will stop as soon as the button is released or the limit switches are reached.

The OPN status LED on the control board will flash at 1 second intervals to assist setting times. NOTE when setting the OPEN and CLOSE cycle times when limit switches are used, release the push button a few seconds after the limit switch cuts motor power. This allows for the motors to slow down over the life of the operators without the need to adjust again.
