GATE-230

"BUY N.Z. MADE"

Connection Diagram

LEDs:

READY = ON during initialisation, flashing when ready ——

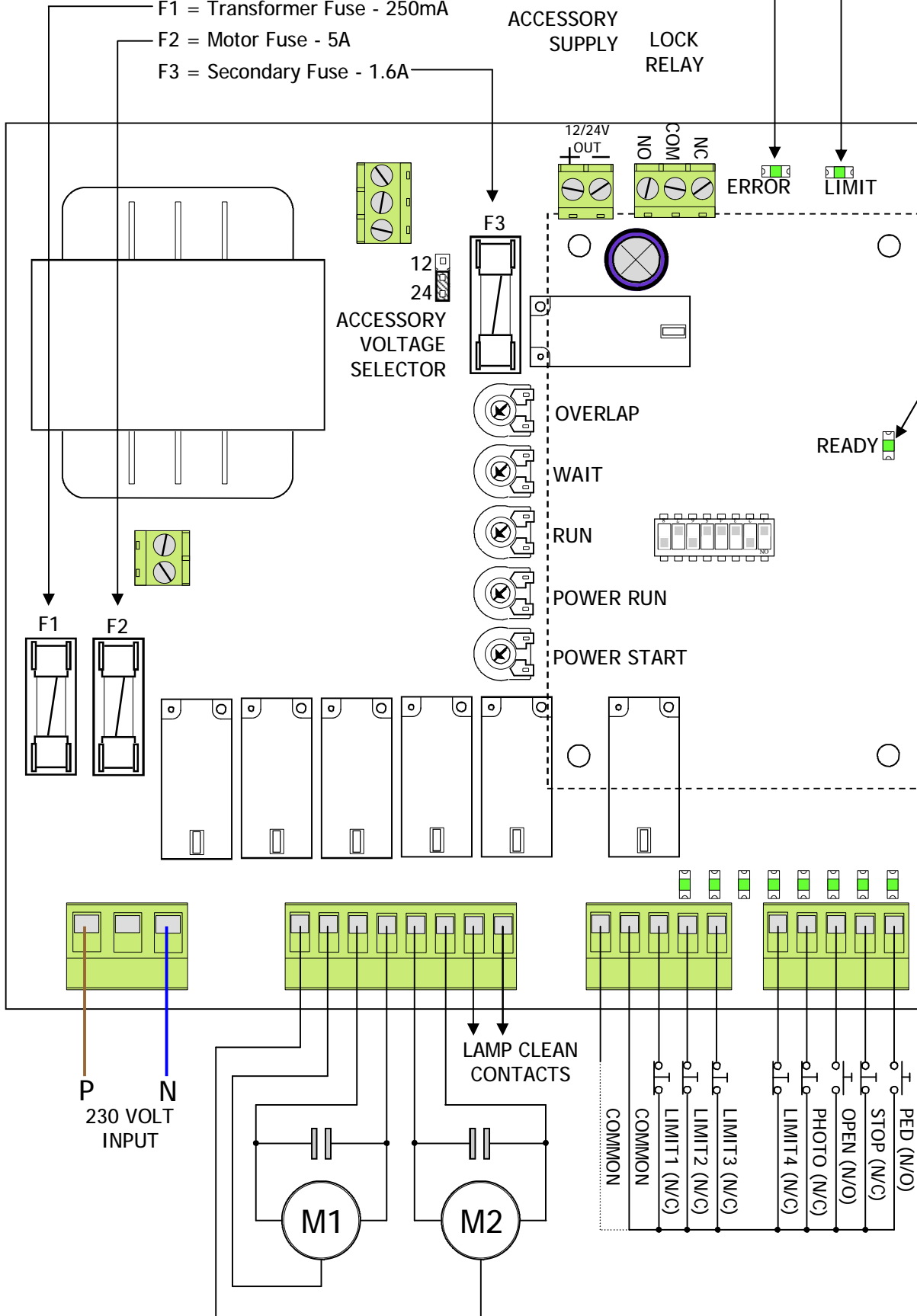LIMIT = ON limits are not detected ——

ERROR = on for incorrect POT setting
or gate over run time exceeded ——

FUSES:

F1 = Transformer Fuse - 250mA

F2 = Motor Fuse - 5A

F3 = Secondary Fuse - 1.6A ——

ACCESSORY SUPPLY

LOCK RELAY

12/24V OUT

NO COM NC

ERROR

LIMIT

READY

F3

12
24

ACCESSORY VOLTAGE SELECTOR

OVERLAP

WAIT

RUN

POWER RUN

POWER START

F1   F2

P   N
230 VOLT INPUT

M1

M2

LAMP CLEAN CONTACTS

COMMON

COMMON

LIMIT1 (N/C)

LIMIT2 (N/C)

LIMIT3 (N/C)

LIMIT4 (N/C)

PHOTO (N/C)

OPEN (N/O)

STOP (N/C)

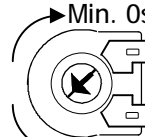PED (N/O)

INPUTS	DESCRIPTION
PED	Pedestrian input, opens motor-1 only (N/O)
STOP	Stop input, stops both motors at any time (N/C)
OPEN	Start input (N/O)
PHOTO	Photo-Cell input (N/C)
LIM4	Motor-2 Closed limit switch (N/C)
LIM3	Motor-1 Closed limit switch (N/C)
LIM2	Motor-2 Open limit switch (N/C)
LIM1	Motor-1 Open limit switch (N/C)
COM	Common for all above inputs

DIP switch		Action
1	ON	OPEN & PED inputs ignored during open & wait time
	OFF	OPEN & PED inputs accepted during open & wait time
2	ON	1 second reverse on motor 1 before opening
	OFF	No Reverse
3	ON	Operation cycle: open - stop - close - open
	OFF	Operation cycle: open - close - open
4	ON	Light output on 4 seconds before motor operation
	OFF	Light output on 1 second before motor operation
5	ON	PHOTO input active on opening (stops movement)
	OFF	PHOTO input Not active on opening
6	ON	Auto closing is Not Active
	OFF	Auto closing is Active
7	ON	Auto close after power fail is restored
	OFF	Power restore is ignored
8	ON	LIGHT output flashes
	OFF	LIGHT output on steady

POT SETUP
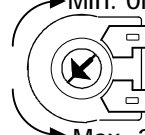

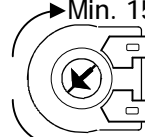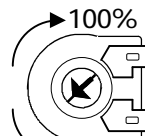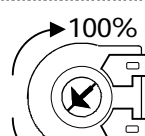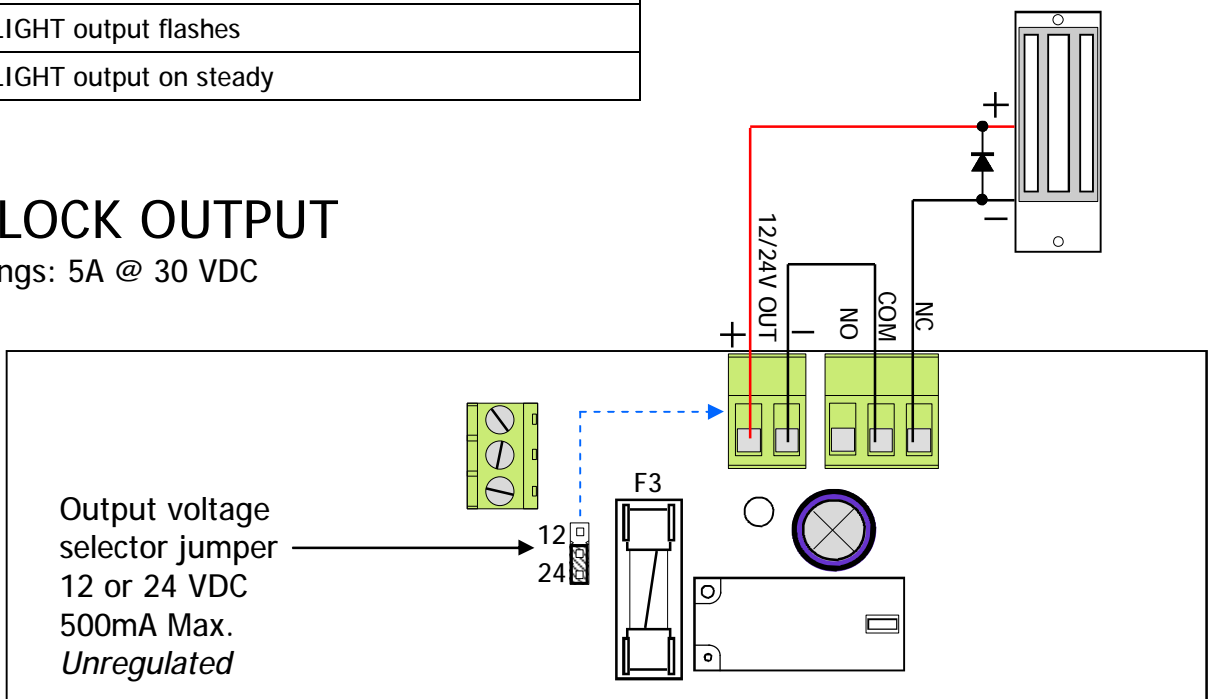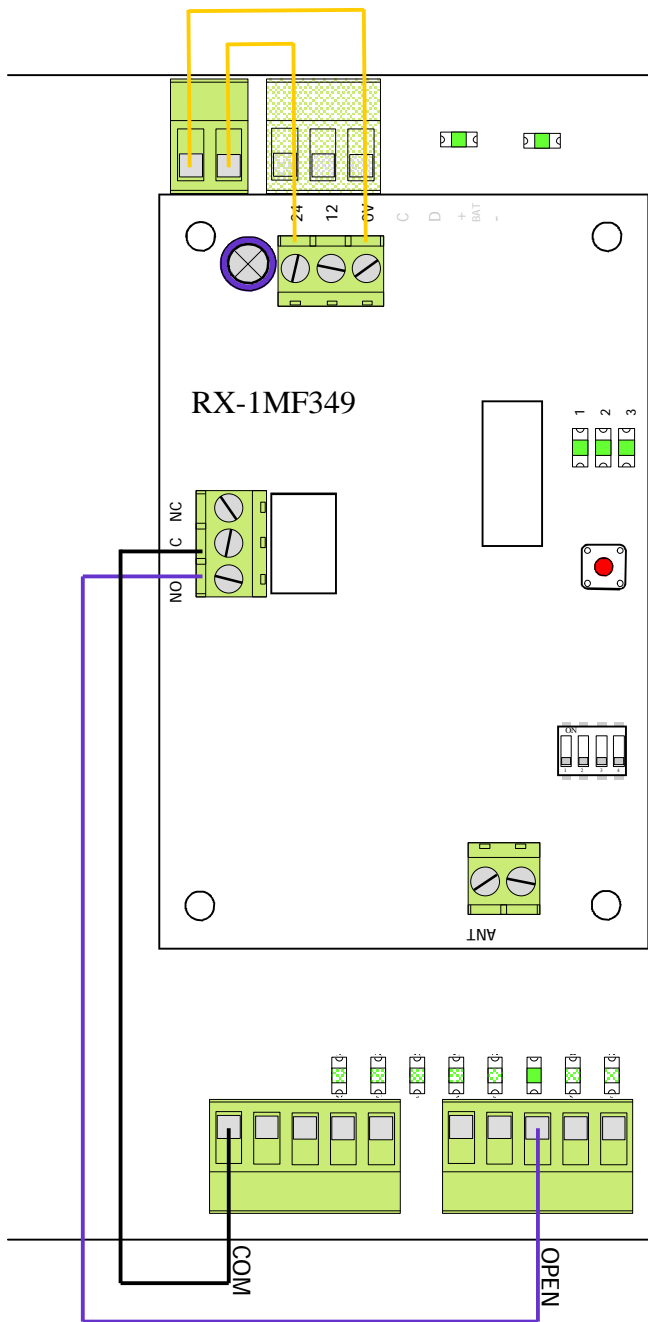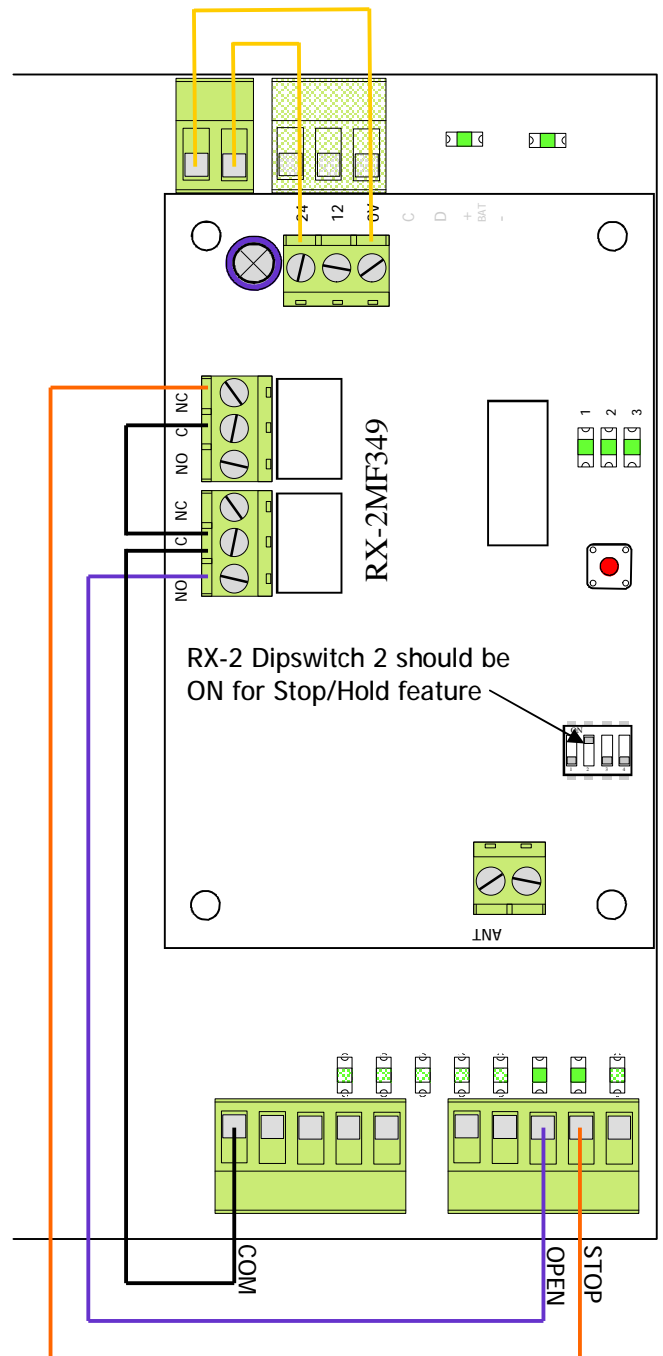|		
OVERLAP	Min. 0sec. — Max. 2sec.	Start delay time between Gate-1 and Gate-2
WAIT	Min. 0min. — Max. 2min.	Auto close wait time
RUN	Min. 15sec. — Max. 2min.	Motor run time Only active in no limit switch mode
PWR RUN	100% — 0%	Run Power Adjusting this will reduce the Gate/s open and close speed.
PWR START	100% — 0%	Start Power *Note: Start Power should be set higher than Run Power*

USING LOCK OUTPUT

Contact Ratings: 5A @ 30 VDC

Output voltage selector jumper
12 or 24 VDC
500mA Max.
Unregulated

12/24V OUT NO COM NC

12
24

F3

Adding Radio
-Single Channel (RX-1MF349)

Adding Radio
-Two Channel (RX-2MF349)

RX-1MF349

RX-2MF349

RX-2 Dipswitch 2 should be
ON for Stop/Hold feature

ANT

ANT

COM

OPEN

COM

OPEN

STOP

The STOP input can be used both as an emergency
stop and a hold open input.

Party Feature:
If the Gates are in the Open position when the STOP
input is Broken, the Light Output will continue to run
for 300seconds and every time a vehicle passes
through the Photo beams the Light Output will turn
on again for another 300seconds.
 Note: Dipswitch 8 must be OFF

Gate-230 Dipswitch 3		
	ON	Operation cycle: open - stop - close - open
	OFF	Operation cycle: open - close - open

Please follow instructions supplied with radio receiver , for loading remotes in.

AC2 & CPT-DH16A Access Keypad Wiring

WARNING:
Jumper must be set to the
12 Volt position for the AC2

12/24V OUT

NO COM NC

12 LOCK
24 VOLTAGE

ERROR   LIMIT

COMMON   OPEN (N/O)   PED (N/O)

NC1
COM1
NO1
NC2
COM2
NO2
GND
12V

REX
(N/O)

IN1
GND
IN2
GND
GREEN   DAT
WHITE   CLK
BLACK   NEG
RED   POS

Y
Z
A
B
TX
RX
GND
SPARE

ONLY REQUIRED
FOR PEDESTRIAN
FUNCTION
*Note Pedestrian
mode will only open
Gate-1.*

POWER SUPPLY
12-24V AC/DC

~ or -   ~ or +

RL1 NC   RL1 COM   RL1 NO   RL2 COM   RL2 NO   RL2 NC

REX 2   UNUSED

COMPETITION
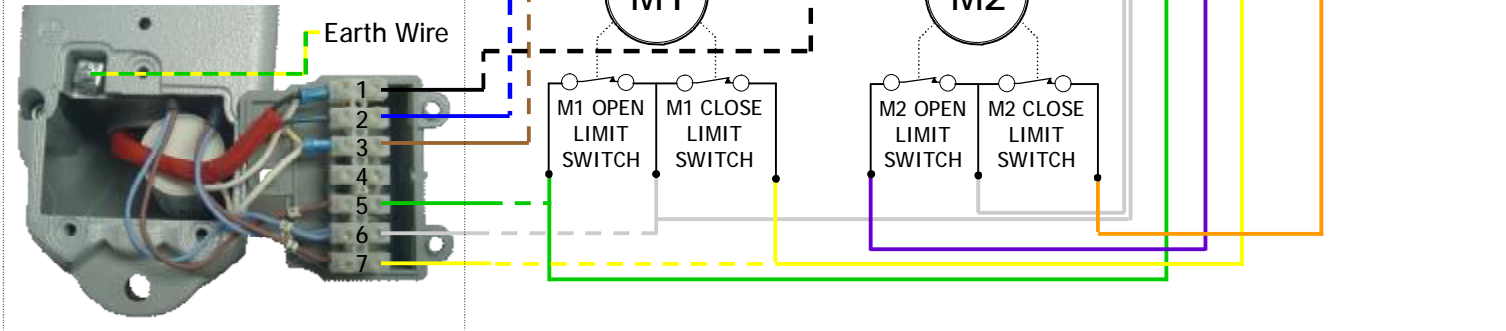
REX 1
*Optional Request to Exit
button can be installed*

*For programming please follow the instructions supplied with the AC2 or CPT-DH16A

Motor Wiring with Limit Switches

Limit switch indicators
On= Limit not reached
1 2 3 4

NEU NEU M1O M1C M2O M2C   COM LIM1 LIM2 LIM3 LIM4

P N
230 VOLT INPUT

DEA LOOK Series Gate Actuator Connection

1 = Phase (close)
2 = Neutral
3 = Phase (open)
4 = Spare
5 = Open Limit
6 = Limit Common
7 = Close Limit

Earth Wire

1
2
3
4
5
6
7

M1

M2

M1 OPEN LIMIT SWITCH
M1 CLOSE LIMIT SWITCH

M2 OPEN LIMIT SWITCH
M2 CLOSE LIMIT SWITCH

Limit Switch Setup

1. Activate the Manual gate override.
2. Manual Push the Gate/s to the closed stop position.
3. Move one of the Limit Switch adjuster/s until you hear the micro switch click.
4. Check the LED's (3=OFF for Gate-1, 4=OFF for Gate-2)
5. Now Manual Push the Gate/s to the open stop position.
6. Move the other Limit Switch adjuster/s until you hear the micro switch click.
7. Check the LED's again (1=OFF for Gate-1, 2=OFF for Gate-2)

*If Limit switches are not connected on power-up they will be ignored and the Limit LED will turn On.
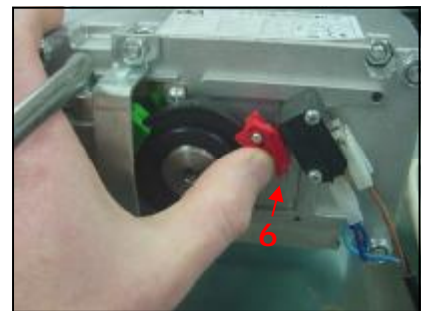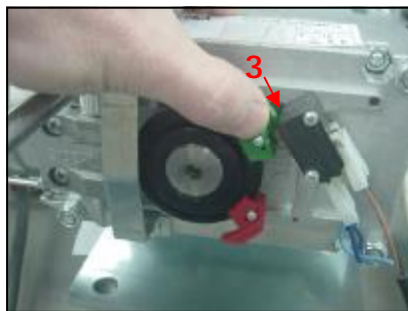*Limit Switches must be Normally Closed.
When limits are active the Gate-230 will enable a maximum motor run time of 180 seconds.
This can not be adjusted.

DEA LIVI Series Gate Actuator

DEA LOOK Series Gate Actuator

Open Stop Limit

Anti-Clockwise Reduce Swing   Clockwise Increase Swing

Close Stop Limit

Anti-Clockwise Increase Swing   Clockwise Reduce Swing
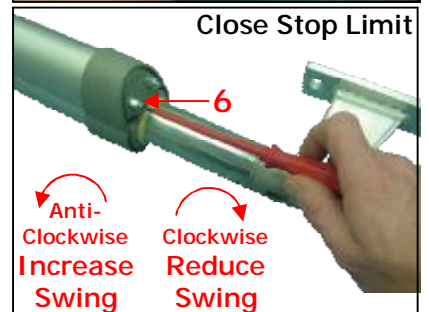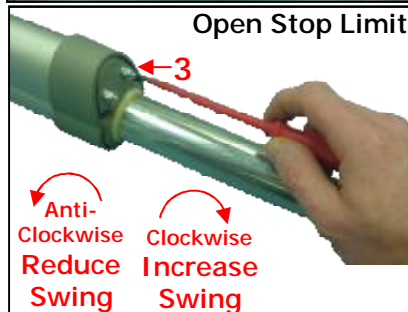
1 2 3 4
LED 1+3 ON for Gate-1
LED 2+4 ON for Gate-2

4 → 1 2 3 4
LED 3 OFF for Gate-1 Closed
LED 4 OFF for Gate-2 Closed

7 → 1 2 3 4
LED 1 OFF for Gate-1 Open
LED 2 OFF for Gate-2 Open

Light Relay Wiring

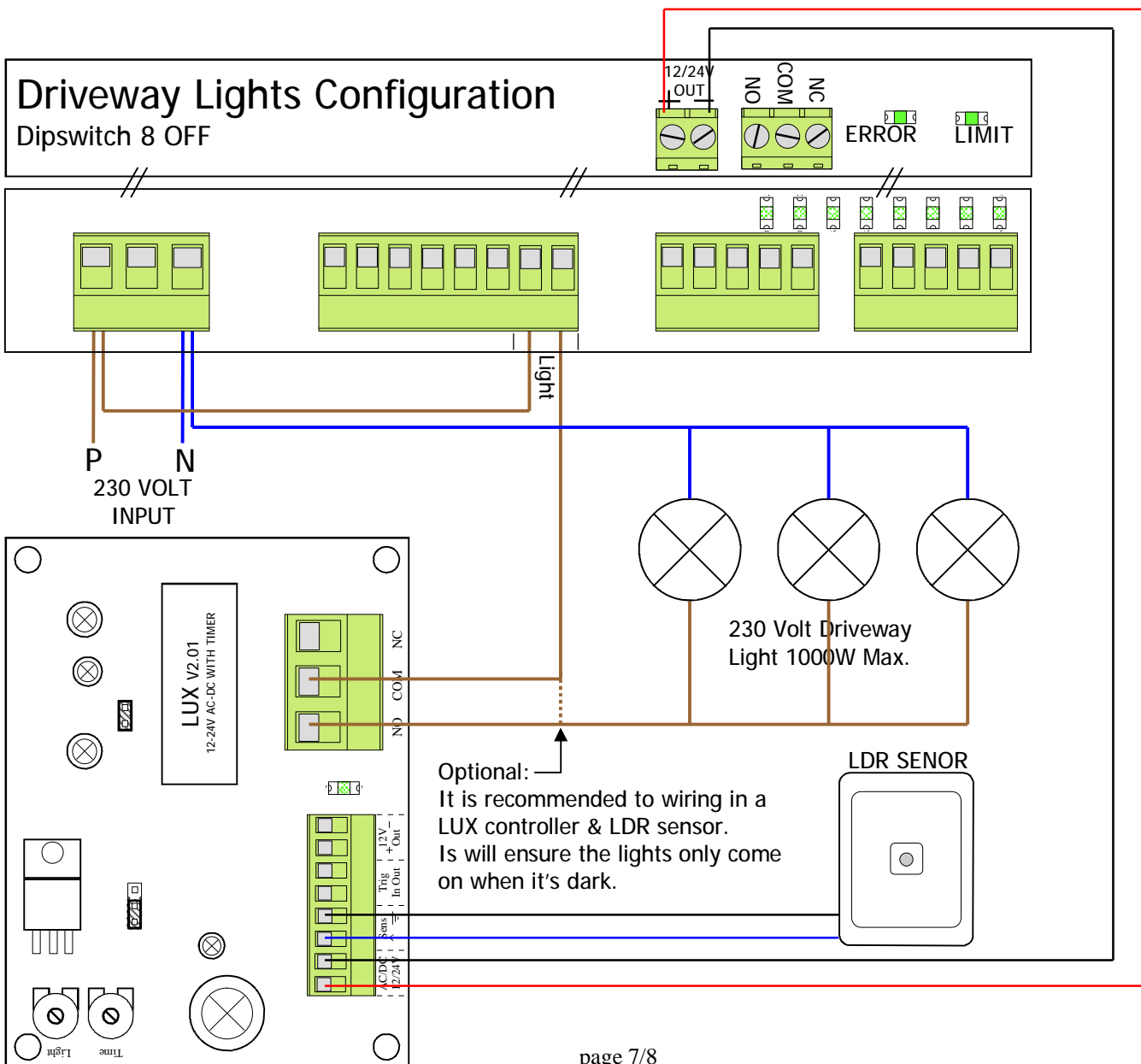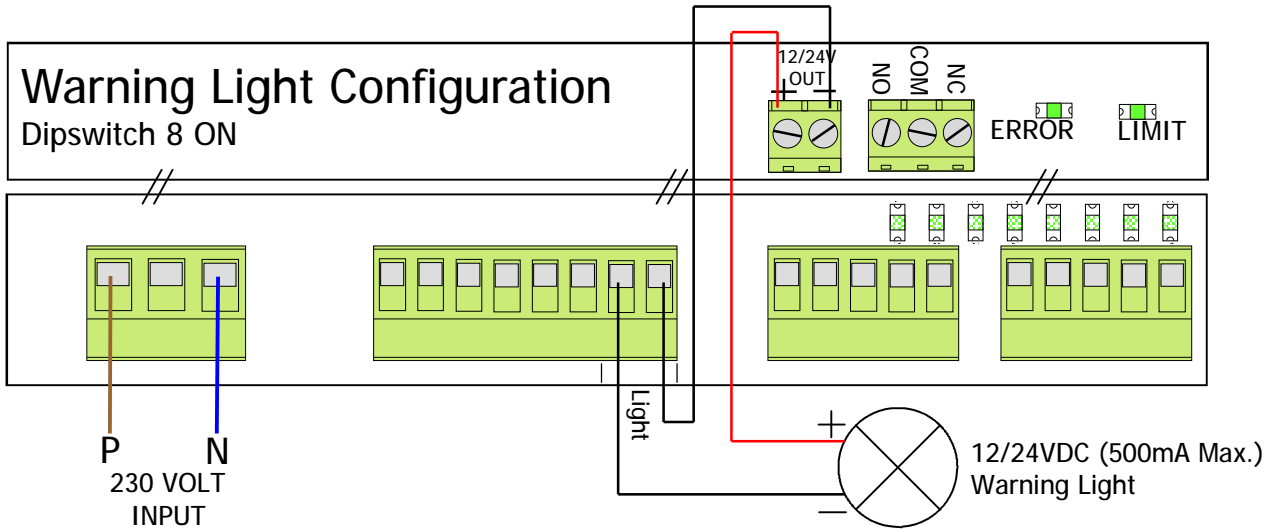| Dipswitch 4 | ON | Light output on 4 seconds before motor |
	OFF	Light output on 1 second before motor
Dipswitch 8	ON	LIGHT output flashes (warning lights)
	OFF	LIGHT output on steady (driveway lights*)

Specifications:
5A / 250VAC
Normally Open Contacts

Warning Light Configuration
Dipswitch 8 ON

12/24V OUT

NO COM NC

ERROR LIMIT

P N
230 VOLT
INPUT

Light

12/24VDC (500mA Max.)
Warning Light

Driveway Lights Configuration
Dipswitch 8 OFF

12/24V OUT

NO COM NC

ERROR LIMIT

P N
230 VOLT
INPUT

Light

230 Volt Driveway
Light 1000W Max.

LUX V2.01
12-24V AC-DC WITH TIMER

NC
COM
NO

12V Out
+ - Out
Trig In Out
Sens
AC/DC
12/24

Light Time

Optional:
It is recommended to wiring in a
LUX controller & LDR sensor.
Is will ensure the lights only come
on when it's dark.

LDR SENOR

Safety Beams & Loop Detector Wiring

| Dipswitch 5 | ON | PHOTO input active on opening (stops movement) |
| | OFF | PHOTO input Not active on opening |

12/24V OUT

NO COM NC

ERROR   LIMIT

LINEAR TX

LINEAR RX

- + C NC NO

PHOTO   OPEN   STOP

If safety beams are not installed you will need to have a wire link between COM & PHOTO

If the Stop input is not required you will need to have a wire link between COM & STOP

If you intend to make a Loop Detector automatically open the gate, it is recommended you wire the Open command through the Lock Relay. This will prevent the gate from closing prematurely, if a second vehicle triggers the loop detector, while the Gate is in the middle of its action.

LOOP

MD2010 Vehicle Loop Detector

12-24 V
0V

N/O
N/C
COM

Dipswitch 1	ON	OPEN & PED inputs ignored during open & wait time
	OFF	OPEN & PED inputs accepted during open & wait time
Dipswitch 3	ON	Operation cycle: open - stop - close - open
	OFF	Operation cycle: open - close - open