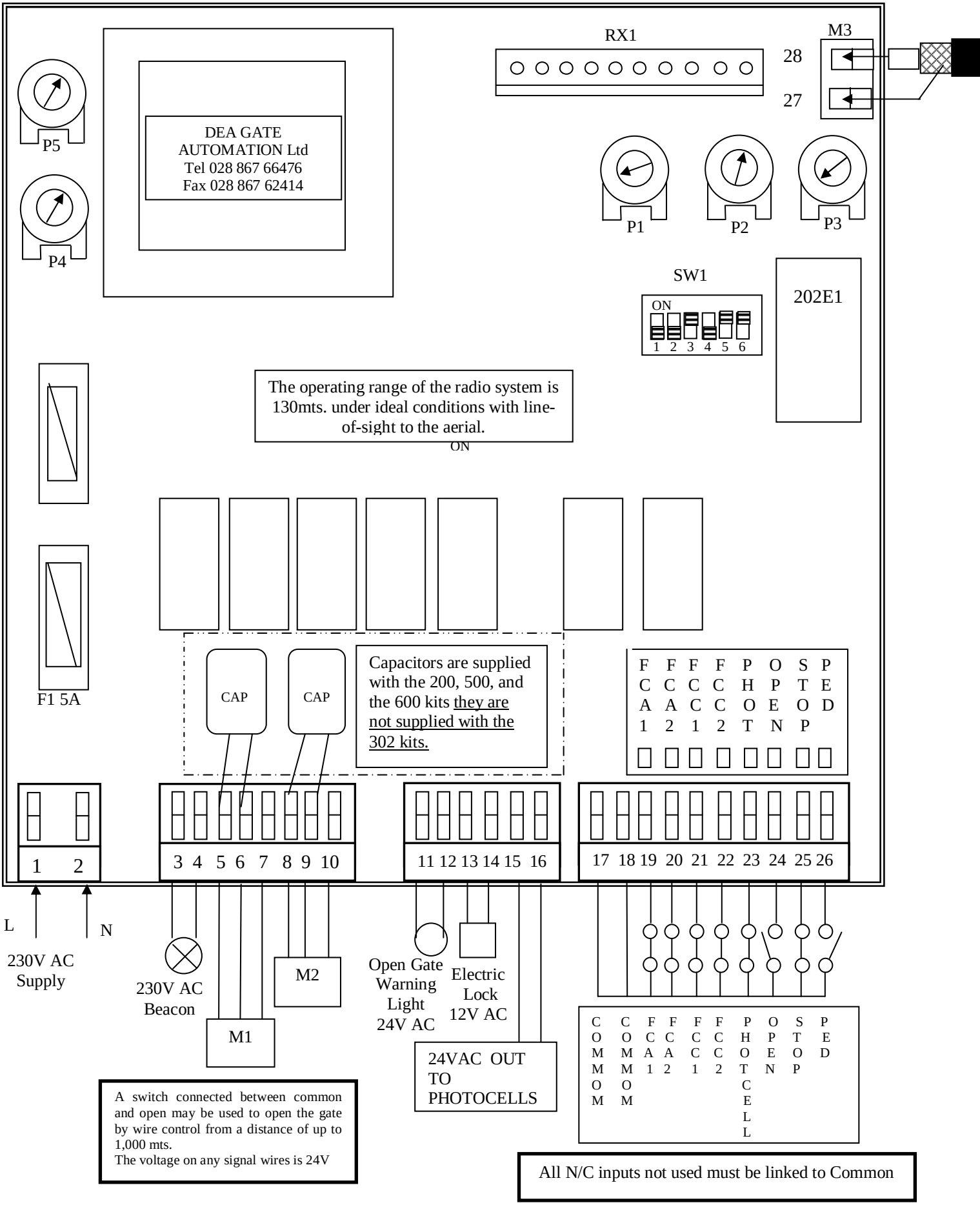
DEA GATE AUTOMATION

MODEL 202E/3

CONTROL PANEL FOR DOUBLE WING GATES



SW1 DIP-SWITCH PROGRAMMES SELECTION

DIP1 ON :Collectivity function ON (If DIP 1 is ON DIP 6 must be OFF)
DIP1 OFF :Collectivity function OFF (Normally set to OFF) Collectivity refers to multiple command inputs.
DIP2 ON :Ram blow ON : before opening, make a short closing movement (1 sec) to unlock eventual mechanical : friction.
DIP2 OFF :Ram blow OFF
DIP3 ON :Step by step Working: OPEN-STOP-CLOSE-STOP-OPEN-STOP
DIP3 OFF :Quick inversion working: OPEN-CLOSE-OPEN-CLOSE-OPEN….
DIP4 ON :Pre-flashing 4 sec.
DIP4 OFF :Pre-flashing 1 sec.
DIP5 ON :Photocell active also in opening: stops the movement until the obstacle is removed
DIP5 OFF :Photocell active only in closing: stops and reverses the movement
DIP6 ON :Not automatic closing
DIP6 OFF :Automatic closing

TIMES ADJUSTMENT

P1 TRIMMER: Open gate pause time adjustment (TCA)
P2 TRIMMER: Work time adjustment (TLAV)
P3 TRIMMER: Delay between wings adjustment (TSFAS). To be set to zero to have no delay in case of 2 sliding gates.
Note; The gate fully open and fully closed positioning can not be set using these trimmers. That is not their function.

POWER ADJUSTMENT

202E/1 MODEL: In the 202E/1 model the power is adjusted by means of two trimmers
P4 trimmer: to adjust the power during the beginning of the movement of each motor (the first 2 seconds) SPUNTO
P5 trimmer: to adjust the power during the rest of the movement, after the first 2 seconds. FORZA

ELECTRICAL CONNECTIONS TO THE TERMINAL BOARD

1-2 230 VOLTS 50 Hz POWER SUPPLY INPUT
3-4 230 VOLTS FLASHING BEACON OUTPUT
5-6-7 MOTOR 1 (5 = OPEN/**BLACK**, 6 = CLOSE/**BROWN**, 7 = COMMON/**BLUE**)
8-9-10 MOTOR 2 (8 = OPEN/**BROWN**, 9 = CLOSE/**BLACK**, 10 = COMMON/**BLUE**)
11-12 OPEN GATE WARNING LIGHT 24 VOLTS AC OUTPUT
13-14 ELECTRIC LOCK 12 VOLTS AC OUTPUT
15-16 AUXILIARY POWER SUPPLY FOR PHOTOCELLS
17-18 COMMON OF THE INPUTS
19 M1 OPENING LIMIT SWITCH (FCA1) N.C. INPUT
20 M2 OPENING LIMIT SWITCH (FCA2) N.C. INPUT
21 M1 CLOSING LIMIT SWITCH (FCC1) N.C. INPUT
22. M2 CLOSING LIMIT SWITCH (FCC2) N.C. INPUT
23 PHOTOCELL N.C. INPUT.
24 START OPEN N.C. INPUT (THIS ALLOWS THE OPENING OF BOTH GATES VIA AN EXTERNAL SWITCH e.g. 'AN INTERCOM' OR THE KEY SWITCH, WHICH IS SUPPLIED).
25. STOP N.C. INPUT
26. PEDESTRIAN OPEN N.O. INPUT (THIS ALLOWS THE OPENING OF ONE GATE INDIVIDUAL OF THE OTHER)
27-28 ANTENNA INPUT (28 INNER, 27 SCREEN)

ALL N.C. INPUTS NOT USED MUST BE LINKED TO THE COMMON.

LIMIT SWITCHES CONNECTION: NB CHECK CAREFULLY THE SENSE OF RUNNING

MOTOR 1: IMMEDIATE OPENING – DELAYED CLOSING
- CONNECT OPENING LIMIT SWITCH FCA1 TO TERMINAL N°19
- CONNECT CLOSING LIMIT SWITCH FCCR1 TO TERMINAL N°21

MOTOR 2: DELAYED OPENING – IMMEDIATE CLOSING
- CONNECT OPENING LIMIT SWITCH FCAR2 TO TERMINAL N°20
- CONNECT CLOSING LIMIT SWITCH FCC1 TO TERMINAL N°22

IMPORTANT: In case of double wing gates with delay, please keep in mind that M1 will start moving before M2.

INPUTS DIAGNOSTIC LEDS

The diagnostic leds allow to check the status of the inputs in the panel, and in particular (from the RIGHT to the LEFT) :

RED Led “PED”: normally OFF, it turns on whenever an impulse is received on Pedestrian Open input.
Red Led “BLOCCO”: normally ON, it turns off whenever an impulse is received on STOP input.
RED Led“OPEN/START”: normally OFF, it turns on whenever an impulse is received on PIN 24 (OPEN/START) input or from the radio receiver.
Red Led “PHOTO”: normally ON, it turns off whenever an impulse is received on PHOTOCELL input.
Red Led “FCC2”: normally ON, it turns off whenever an impulse is received on MOTOR 2 closing limit switch input.
Red Led “FCC1”: normally ON, it turns off whenever an impulse is received on MOTOR 1 closing limit switch input.
Red Led “FCA2”: normally ON, it turns off whenever an impulse is received on MOTOR 2 opening limit switch input.
Red Led “FCA1”: normally ON, it turns off whenever an impulse is received on MOTOR 1 opening limit switch input.

PHOTOCELL CONNECTIONS

On both units, (transmitter and receiver) connect 24V AC to terminals 1 and 2.
On the receiver, terminals 3 and 4 are the normally closed contacts (the terminals ‘3 and 4’ on the photocells connect into terminals ‘18 and 23’ on the main controller board).

MOTOR WIRING

MOTOR 1	MOTOR 2
BLACK to terminal 5	BROWN to terminal 8
BROWN to terminal 6	BLACK to terminal 9
BLUE (common) to terminal 7	BLUE (common) to terminal 10

Note; If the motor operates a ram in the wrong direction, swop the Brown and Black wires on that motor.

FUSES

FUSES: F1 LINE = 5A, F2 AND F3 24Vac = 2A

FLASHING BEACON 230V AC

The flashing beacon is supplied with 230V AC from terminals 3 and 4 and is connected to the two terminals on the pcb inside the beacon.

The coaxial cable attached to the two metal strips inside the beacon is the aerial cable, this should be connected to terminal 27 and 28 on the control panel. The inner wire connects to terminal 28 and the outer screen is connected to terminal 27.

CAUTION; Do NOT connect the coaxial cable to any terminals other than 27 and 28.

Recommended DIP switch settings;

Open - Stop - Close mode:

DIP1 - OFF
DIP2 - OFF
DIP3 - ON
DIP4 - OFF
DIP5 - ON
DIP6 - ON

Open - Pause - Automatic close mode:

DIP1 - OFF
DIP2 - OFF
DIP3 – ON
DIP4 - OFF
DIP5 - ON
DIP6 - OFF

CABLE SPECIFICATION FOR THE GATE CONTROLLER

THE GATE CONTROLLER REQUIRES A 240 VOLT AC SUPPLY FROM A 13 AMP FUSED SOURCE WITH AN ADDITIONAL IN LINE RCD CIRCUIT BREAKER
.THE ADJOINING CABLE TO THE GATE CONTROLLER MUST BE 4 CORE ARMOURED CABLE WITH A MINIMUM RATEING OF 2.5mm.

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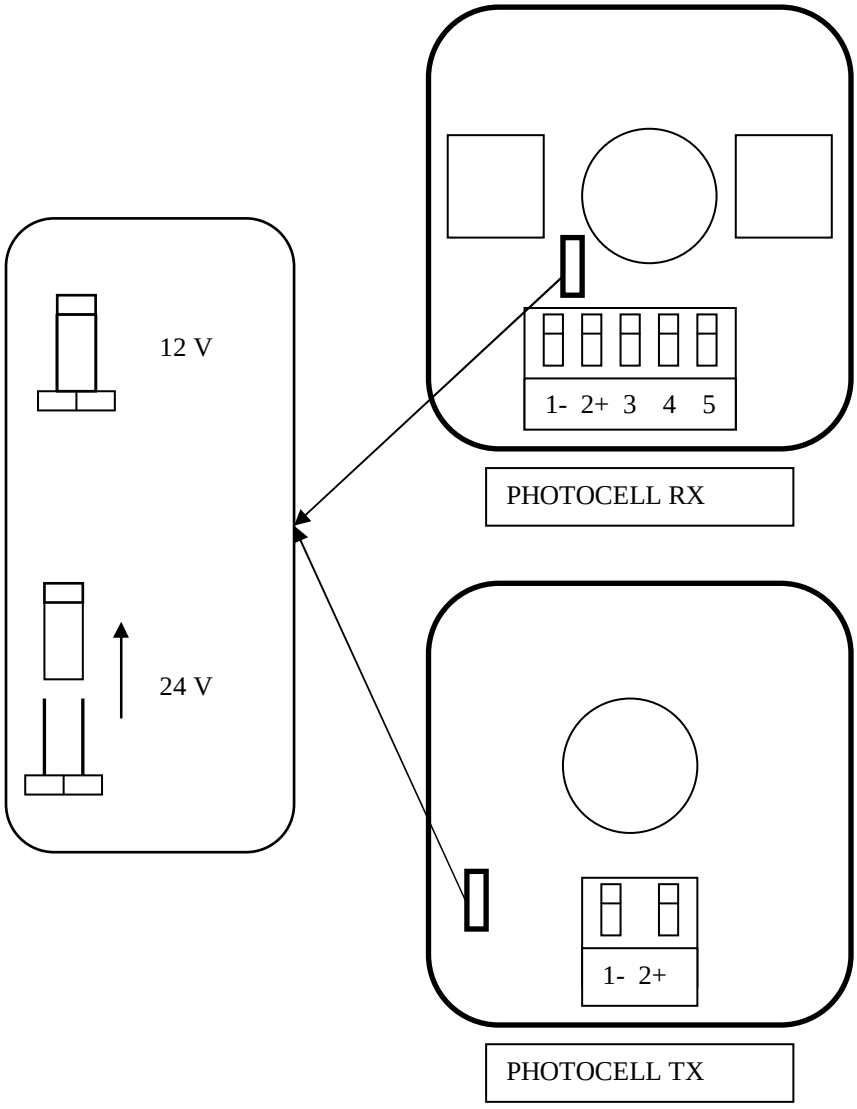
THE GATE CONTROLER CAN BE MODIFIED TO INCORPORATE AN INTERCOM SYSTEM FROM THE HOUSE, BUT A SEPARATE CONDUIT MUST BE LAID TO INCORPORATE THE INTERCOM SYSTEMS CABLE TO KEEP IT SEPARATE FROM THE MAINS SUPPLY TO THE PANEL.

PHOTOCELLS CONNECTING INSTRUCTIONS



1-2 = 12/24 VOLTS AC/DC
3-4 = NC
3-5 = NO

PHOTOCELL RX

1-2 = 12/24 VOLTS AC/DC

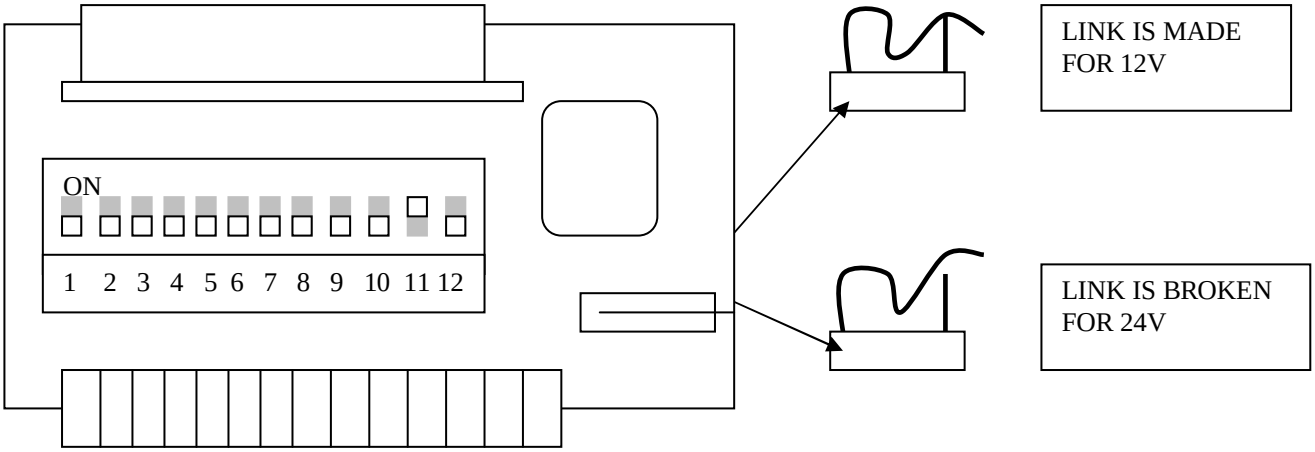
PHOTOCELL TX

NOTE: A 4 CORE CABLE IS REQUIRED TO CONNECT THE RX PHOTOCELL TO THE CONTROL BOARD.
A 2 CORE CABLE CAN BE USED TO CONNECT THE TX PHOTOCELL TO THE CONTROL BOARD.

NOTE: WHEN USING THE AUXILIARY POWER SUPPLY FOR THE PHOTOCELLS TERMINALS 15-16 ON THE MAIN BOARD WHICH HAS A 24VOLT AC OUTPUT. PLEASE ENSURE TO REMOVE THE JUMPER LINK ON BOTH PHOTOCELL PCBs AS SHOWN ABOVE. FAILURE TO DO THIS MAY DAMAGE THE UNIT.

For service and spares contact: DEA GATE AUTOMATION Sandholes Road, COOKSTOWN BT80 9AR
Tel 028 867 66476 Fax 028 867 62414

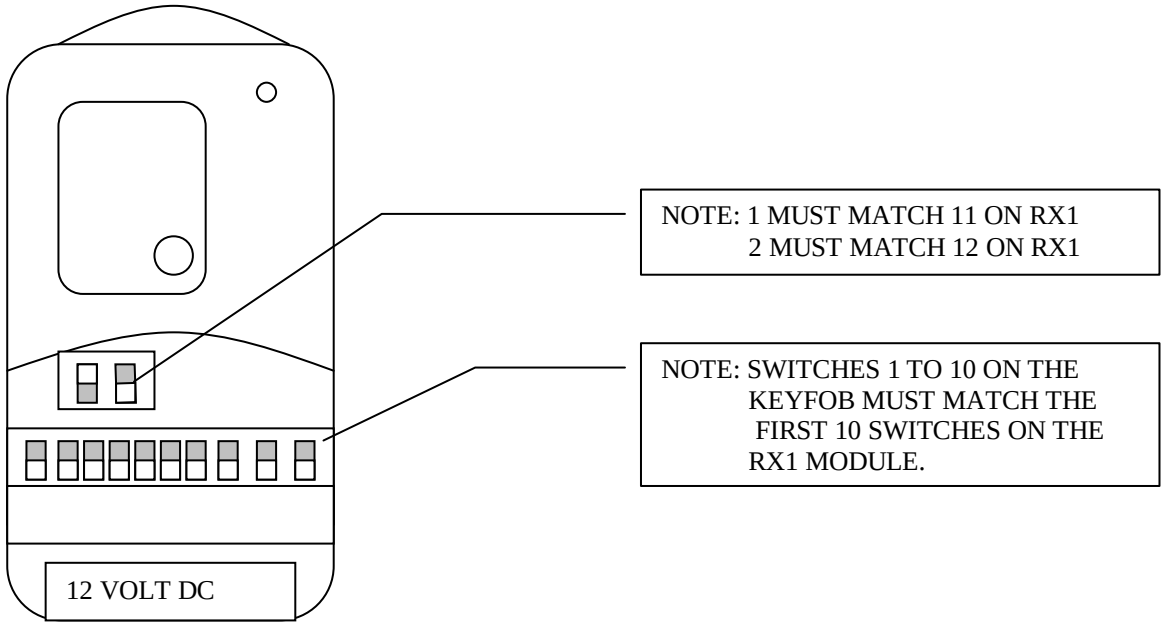
HOW TO MATCH THE HAND HELD KEYFOB WITH THE RX1 MODULE



NOTE: SUPPLY TO THE RX1 MODULE IS 24 V ON THE GATE MAIN CONTROLER BOARD. UNLESS OTHERWISE INSTRUCTED THE LINK SHOULD BE BROKEN AS SHOWN. ABOVE FAILURE TO DO THIS WILL DAMAGE THE UNIT.

NOTE: ALL GATE SYSTEMS HAVE SINGLE CHANNEL RX1 MODULE SUPPLIED AS STANDARD WITH EACH KIT AND SWITCHES 11 AND 12 ON SW2, SHOULD ALWAYS BE SET 11 ON AND 12 OFF UNLESS OTHERWISE INSTRUCTED THIS PROGRAMS THE RX1 MODULE TO MATCH THE HAND HELD KEYFOB.

NOTE: SWITCHES 1 TO 10 ON SW2 LOCATED ON THE RX1 MODULE ARE USED TO SET UP AN INDIVIDUALS CODE BETWEEN THE GATE SYSTEM AND THE HAND HELD KEYFOB. THIS ALLOWS THE USER TO MATCH SWITCHES 1 TO 10 ON THE RX1 MODULE TO THE SWITCHES 1 TO 10 ON THE HAND HELD KEYFOB THUS CREATING A DIFFERENT CODE FOR EACH USER.



Rolling Code Set Up Procedures

Note: the voltage must be selected as shown above before powering up as over voltage will damage the system.

Procedure for receiver to learn a rolling code transmitter:

1. **Ensure jumper is correctly set on receiver to set it up for learning mode.**
2. **Press the reset button on the receiver board; this should illuminate the red LED. Hold the button until the LED turns off (approx. 8 seconds).**
3. **Press the reset button once again; this should illuminate the red LED again to show that the receiver is in learning mode.**
4. **Before the LED turns off press the Ch 1 button on the transmitter, this should cause the relay to click and also illuminate the red LED momentarily. The receiver should have now learned the code for Ch1, and Ch 2 is automatically learned.**
5. **Before the LED definitively turns off, press sequentially Ch 1 of all other transmitters if applicable, again Ch2 of these transmitters will be automatically learned. After each stored code the relay will click.**
6. **When the last code is stored, wait for the red LED to turn off. This means that learning mode is completed.**