



## Manufacturers & Wholesalers to the security industry

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### Quick program sheet for DTS 512/624

#### Dipswitch selections to activate a function.

Dipswitch 1 - Set up.

- 2 - Motor direction. (Closing left OFF, Closing right ON).
- 3 - Auto close.
- 4 - Condominium mode.
- 5 - P.I.R.A.C. mode
- 6 - Slow down distance change

### PROGRAMING

**Run Time Setup** (This will automatically happen when triggered after **TOTAL** power up.)

- 1) Select and change dipswitch 2 & 6 were applicable.
- 2) Gate approximately 1metre open.
- 3) Push and release BT/SET button.
- 4) Gate will close, open and close again and stop on close limit.
- 5) Control card will beep twice to confirm end of run time setup.

**NOTE: If gate opens first, dipswitch number 2 is wrongly selected.**

**Auto close** (Default 10 seconds) (Infra red beams must be fitted if auto close is activated).

- 1) Switch Dipswitch 1 and 3 on.
- 2) Leave dipswitch 2 were it is but put all other dipswitches OFF.
- 3) Press & hold BT/SET button.
- 4) PCB will Beep (1 Beep = 1 Sec)
- 5) Release BT/SET button at required auto close time (Max. 4 minutes).
- 6) Switch Dipswitch 1 and 3 off.
- 7) Switch Dipswitch 3 back on to activate the auto close.

**Pedestrian Opening** (Default 1 meter / 10 seconds auto close).

- 1) Switch Dipswitch 1 and 4 on.
- 2) Leave dipswitch 2 were it is but put all other dipswitches OFF.
- 3) Gate should be in closed position.
- 4) Press & Release BT/SET Button.
- 5) Gate will open.
- 6) Press & release BT/SET button to stop gate at required pedestrian opening distance.
- 7) Press & Hold BT/SET button to program auto close time required.
- 8) Control card will Beep (1 Beep = 1 Sec)
- 9) Release BT/SET button at required pedestrian auto close time (Max. 2 minutes).
- 10) Switch Dipswitch 1 and 4 off.
- 11) Gate will close again.

#### **To reset factory default**

- 1) Remove all power.
- 2) Press and hold BT/SET button, while holding the BT/SET button, re-apply power, AC and DC.
- 3) With power re-applied, release BT/SET button.
- 4) PCB will beep to confirm factory default being restored.

#### **Load setting**

To adjust the load, turn the provided load pot to determine the load setting (Minimum, anticlockwise and Maximum clockwise). The control card will beep 1 - 5 beeps on first trigger.

## ON BOARD RECEIVER PROGRAMING

The onboard receiver is designed to work with most rolling code transmitters.

<b>PROGRAMMING TRANSMITTERS FOR FULL OPENING -BT/Lrn</b>	<b>PROGRAMMING TRANSMITTERS FOR PEDESTRIAN OPENING -PD/Lrn</b>
<ol style="list-style-type: none"><li>1. Push the Bt Lrn button, the RX led will go on.</li><li>2. Push the required button on the transmitter, at arms length from PCB once, the Rx led will flash. Press the same button again, and the PCB will emit 3 beeps for a full Keelog transmitter or 2 beeps for other transmitters.</li><li>3. Repeat Step 1 and 2 for additional transmitters. Up to 31 transmitters can be programmed as a joint combination between BT and PD.</li></ol>	<ol style="list-style-type: none"><li>1. Push the Pd Lrn button, the RX led will go on.</li><li>2. Push the required button on the transmitter, at arms length from PCB once, the Rx led will flash. Press the same button again, and the PCB will emit 3 beeps for a full Keelog transmitter or 2 beeps for other transmitters.</li><li>3. Repeat Step 1 and 2 for additional transmitters. Up to 31 transmitters can be programmed as a joint combination between BT and PD.</li></ol>

### The button used for BT Lrn CANNOT be used for Pd Lrn and vice versa.

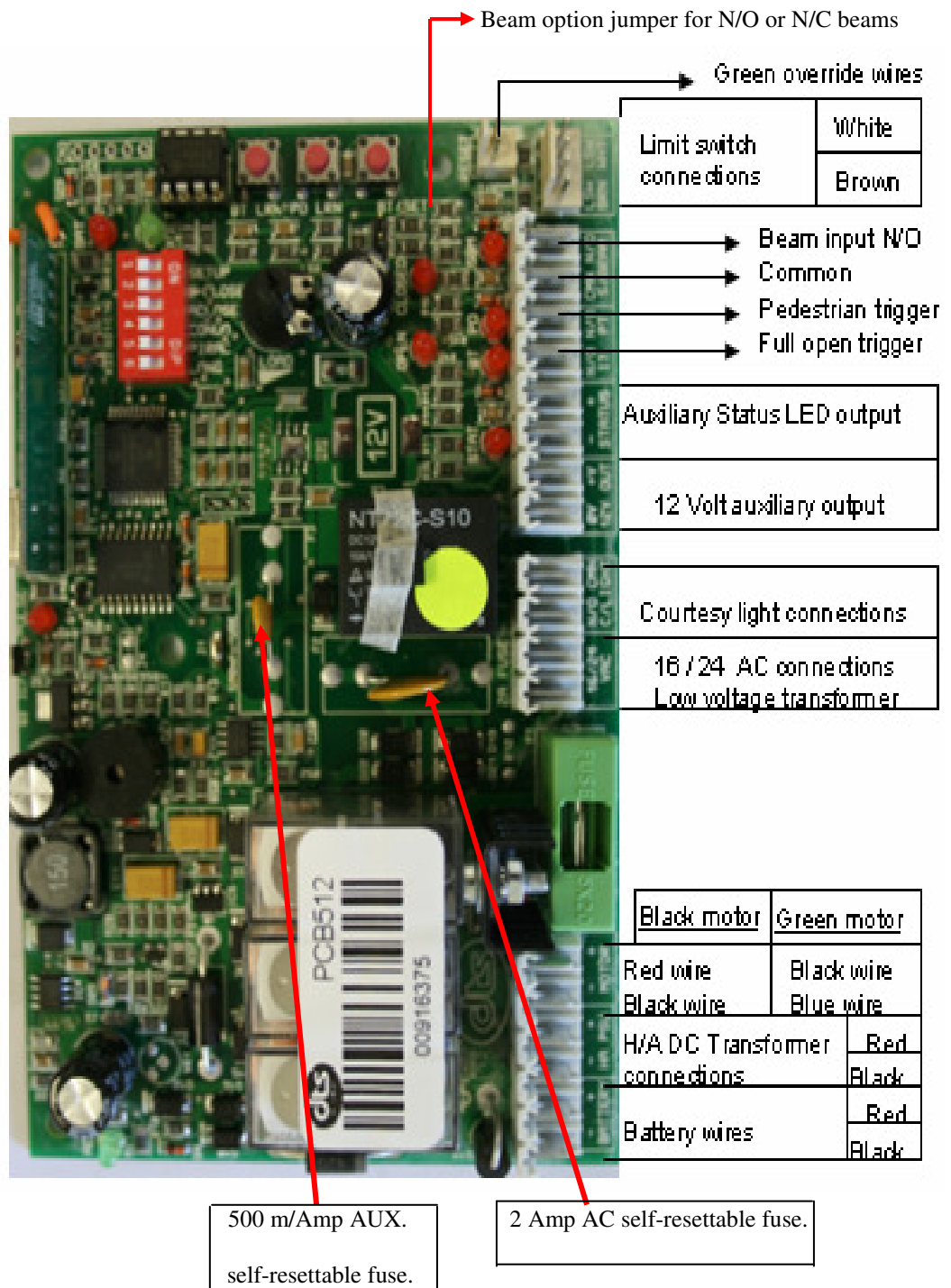
To erase a button from the receiver, in case of incorrect programming i.e. blue button should be for BT/Lrn and not PD/Lrn.

Simply push and hold the BT/Lrn or the PD/Lrn for 5 seconds, the board will give 1 beep. Then push the button you want to erase, the board will give 2 beeps as confirmation. That button is then erased and can be learned into the correct input.

### To master erase:

Push and hold the BT/Lrn or the PD/Lrn button, after 5 seconds the board with give 1 beeps. Keep holding for another 10 seconds then the board will give 2 beeps.  
All transmitters will now be erased.

## PCB Control card.



**NOTE:** With the infra-red beam option pins not bridged the PCB operates as N/O beams.  
 With the option jumper bridged the PCB operates as N/C beams. (Fail safe mode).

**NB** – When connecting intercoms to the control card (IT and CMN), please ensure that your intercom trigger output is potential free (**ZERO voltage**). If not, a gate relay module **must** be fitted.

## **List of audio indications and warnings.**

- One continuous beep - PCB is damage, replace PCB.
- One 1.5 second beep - "Party mode" has been activated.
- One 2 second beep - Factory defaults have been set.
- One 2 second beep - Beams are incorrectly wired or faulty when programming the motor. or Runtime was aborted for whatever reason.
- One 3 second beep - Holiday lockout mode has been activated.
- One 3 second beep - Gate triggered when motor is in 3 minute overload lockout.
- Two 400 ms beeps - Run time programming (calibrating) has been successful.
- Two 1 second beeps - Pedestrian mode was activated. or No AC power is present, running battery power only.
- Three 200ms beeps - Battery power is too low, or Override function is open or faulty.
- Four 100ms beeps - Motor is in holiday lockout.
- Four 200ms beeps - Check motor/load fuse (512/25amp or 624/10amp).
  - Check motor brushes and armature.
  - PCB reader not picking up Magnet on motor.
- Five 1 second beeps - Holiday lockout mode has been de-activated.
- Twenty 100ms beeps - Motor has stalled or overloaded, then check the following points:
  - 1) Gate pulling force (should not exceed 512/12.5kg or 624/15kg)
  - 2) Load pot is set too low (Turn pot completely clockwise)
  - 3) Battery voltage under load (512/12volt or 624/24volt) (Not connected)
  - 4) Gearbox gearwheel.

## **List of LED indications.**

- LED ON when open limit is activated. (gate open).
- LED OFF when close limit is activated. (gate closed).
- LED flashing SLOW (1 sec. on/1 sec. off) (gate is in motion).
- LED flashes 2 long/3 short continuously (gate is stopped midway).
- LED flashes fast (250ms on/250ms off) continuously. (gate in overload).
- LED flashes 3 fast flashes every 1.5 seconds. (battery low, <11/22VDC).
- LED flashes 1 slow/2 fast continuously. (NO 220 VAC power present).

### **FOR SAFETY REASONS.**

**Infra-red beams are recommended for  
all gate motor installations.**