Manufacturers & Wholesalers to the security industry

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Quick program sheet for DTS 500 Expert.

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

PROGRAMMING

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 TEST/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 TEST/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 TEST/SET Button.
5) Gate will open.
6) Press & release TEST/SET button to stop gate at required pedestrian opening distance.
7) Press & Hold TEST/SET button to program auto close time required.
8) Control card will Beep (1 Beep = 1 Sec)
9) Release TEST/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 TEST/SET button, while holding the TEST/SET button, re-apply power, AC and DC.
3) With power re-applied, release TEST/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.

PROGRAMMING TRANSMITTERS FOR FULL OPENING – GATE	PROGRAMMING TRANSMITTERS FOR PEDESTRIAN OPENING -PED
1. Push the GATE button, the RX led will go on.	1. Push the PED button, the RX led will go on.
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.	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.
3. Repeat Step 1 and 2 for additional transmitters. Up to 31 transmitters can be programmed as a joint combination between GATE and PED.	3. Repeat Step 1 and 2 for additional transmitters. Up to 31 transmitters can be programmed as a joint combination between GATE and PD.

The button used for GATE, CANNOT be used for PED and vice versa.

To erase a button from the receiver, in case of incorrect programming i.e. blue button should be for GATE and not PED.
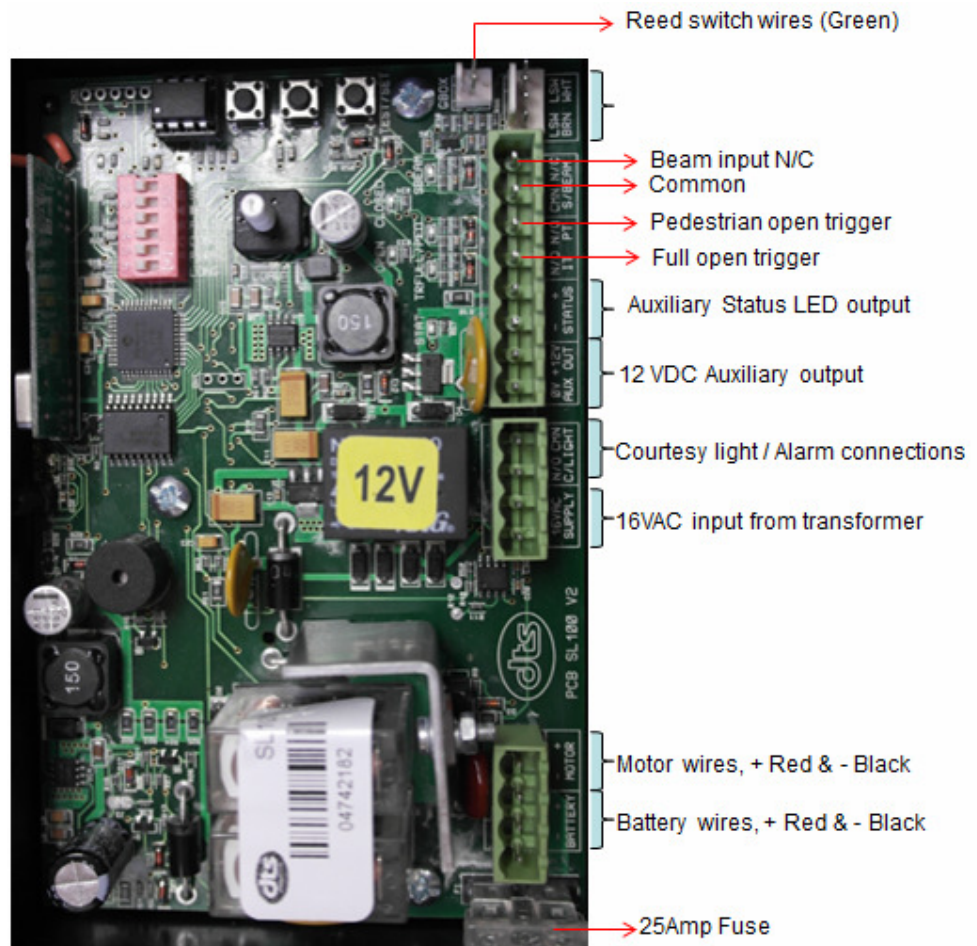Simply push and hold the GATE for 5 seconds, the board will give 1 beep. Then push the button on the TX you want to erase, the board will give 2 beeps as confirmation. That button is then erased and can be learned into the correct input.

To master erase:

Push and hold the GATE 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. (Please note, can only connect a low voltage power supply and therefore cannot be modified as a High excess motor)

Reed switch wires (Green)

Beam input N/C
Common
Pedestrian open trigger
Full open trigger
Auxiliary Status LED output
12 VDC Auxiliary output
Courtesy light / Alarm connections
16VAC input from transformer
Motor wires, + Red & - Black
Battery wires, + Red & - Black
25Amp Fuse

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.

Important – If beams are fitted, remove the fitted bridge by S/BEAM connected between CMN & N/C.
If <u>no beams</u> are fitted then a bridge must be fitted between CMN & N/C.

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 (25amp). - 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 12.5kg)
   2) Load pot is set too low (Turn pot completely clockwise)
   3) Battery voltage under load (12volt) (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, <11VDC).**
- **- LED flashes 1 slow/2 fast continuously. (NO 220 VAC power present).**