

INSTRUCTIONS - PROFESSOR MOTOR 3-LANE ANALOG LAP COUNTER SYSTEM (PMTR6863)

Track wiring directions for positive polarity controllers :

- #1 Wire to + power : main power feed from (red) power supply**
- #8 Wire to - power : main power feed from (black) power supply**
- #2 Wire to the white post (power) for lane #1**
- #3 NOT USED**
- #4 Wire to the white post (power) for lane #2**
- #5 NOT USED**
- #6 Wire to the white post (power) for lane #3**
- #7 Wire to the red post (brake) for lane #1**
- #9 Wire to the red post (brake) for lane #2**
- #10 Wire to left side braid/rail of track lane #1**
- #11 Wire to the red post (brake) for lane #3**
- #12 Wire to left side braid/rail of track lane #2**
- #13 Wire to left side braid/rail of track lane #3**

Other wiring (not connected to wiring center) :

- Wire black (track) controller post for lane #1 to right side braid/rail of lane #1**
- Wire black (track) controller post for lane #2 to right side braid/rail of lane #2**
- Wire black (track) controller post for lane #3 to right side braid/rail of lane #3**

Plug the 12 volt power supply (provided) into the socket as indicated on the red board

Plug in the 2 DIN connectors from the DS light bridge / PMTR6908 light bridge into the sockets indicated

Install and register the PCLapcounter software when hooked up to an internet connection (instructions with CD)

Plug the 6 foot USB cord (supplied) from the electronics into the Windows computer.

This lap counter system includes a “wiring center” to provide protection against short circuit and overload conditions that may be encountered due to misconnected controllers, track wiring issues or any slot car related issue that might cause excessive current draw. The self-resetting circuit breakers used will restore power automatically without any need for a manual reset or fuse replacement after the electrical issue is resolved. Ring type wire terminals are included in this kit (not shown in illustration). We recommend that all wire to wire terminal connections are soldered for the best reliability using electrical type rosin core solder (do not use acid core solder or acid flux). 14 to 16 gage wire is recommended for all connections.

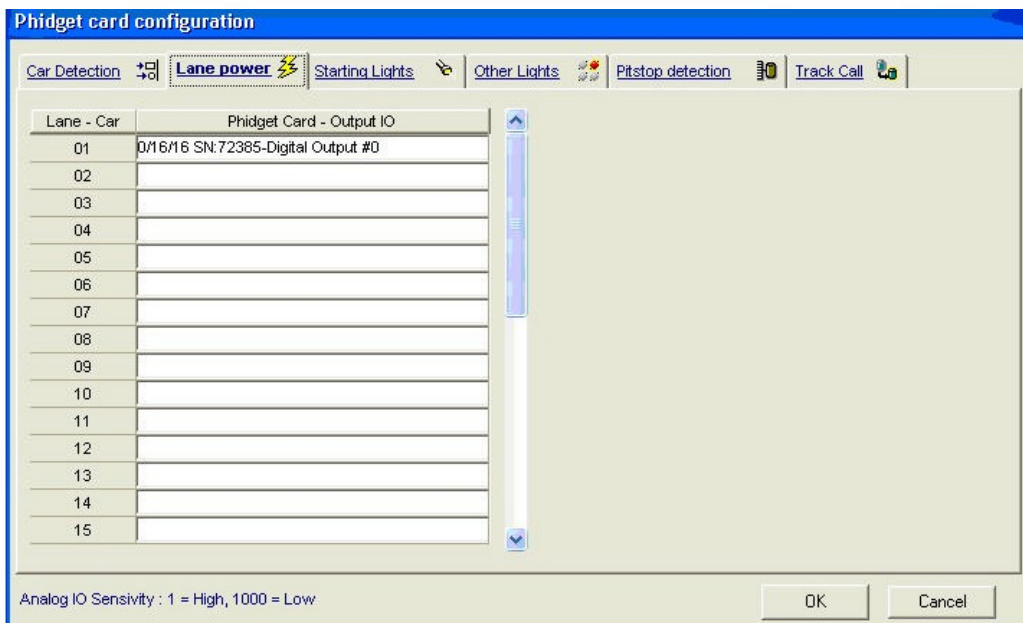
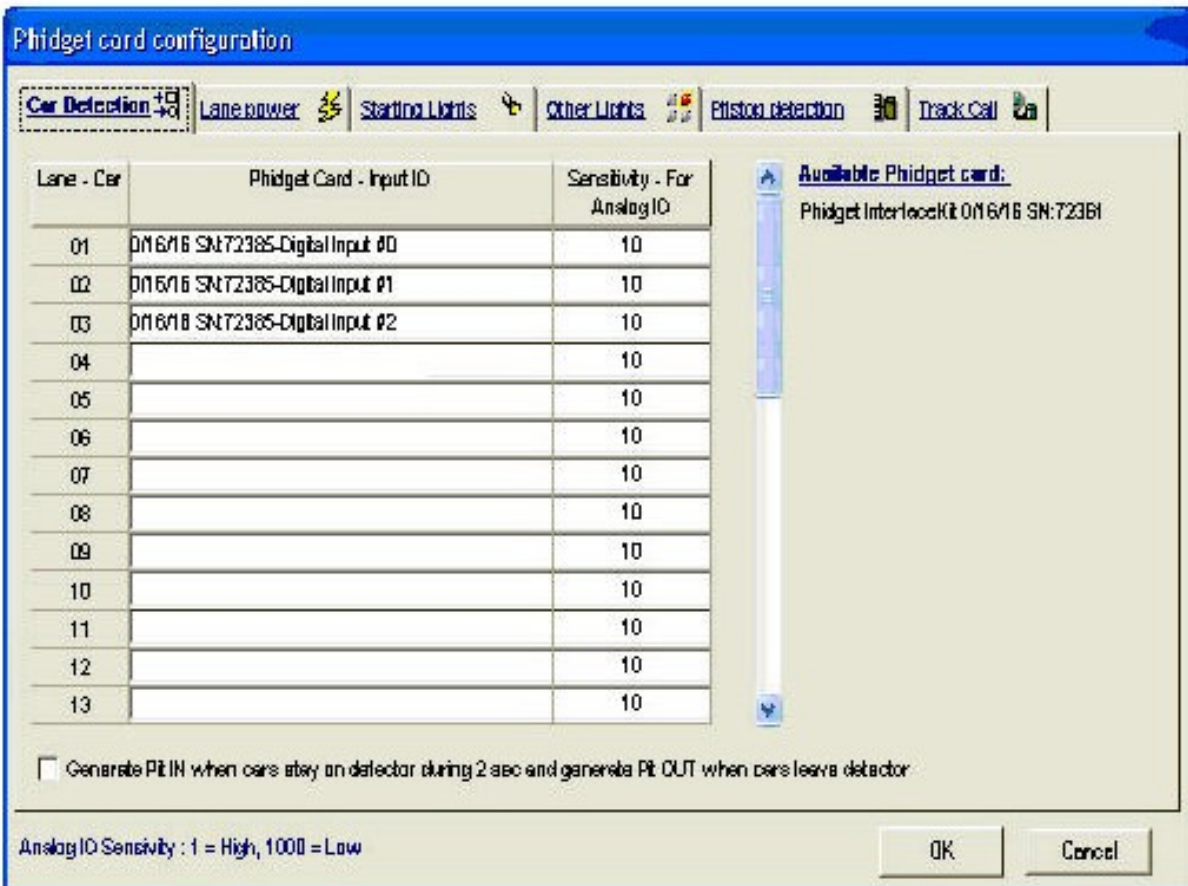
This Lapcounter system uses an electronic USB connected “Phidget” board. This board allows the computer software to count laps and record times as cars pass under the light bridge and also allows the software to turn the track on and off by energizing a relay mounted into the system so that proper races can be run.

Mounting the lap counter board – mounting screws and “standoffs” are provided to mount the board under the track upside down after the system is all wired and tested, but **CAUTION !! DO NOT USE A POWER DRIVER** to drive the screws for mounting as this will likely damage the red plastic board used.

Features of the PC Lap Counter software include custom sounds and many other sophisticated capabilities. Watch for possible upgrades to your Lapcounter system to be released by Professor Motor in the future to take advantage of some of these more sophisticated features.

Web site for PC Lap Counter system information if interested is : www.pclapcounter.be

Configure the windows for the "Phidget" board as shown for the 3 lanes (no track power) within the PC Lap Counter Software with the USB cable from the electronics interface connected :



At this point you should be good to go. If any technical questions please feel free to contact Professor Motor for assistance ... we will not let you fail !

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