



TracTronix TF 100

Extra Features

The two extra features listed below are located in the IR receiver units of all TF100 timing systems. They present a way for the user to customize each beam set for added flexibility in any timing application.

Custom Beam Alignment Delay:

It is sometimes necessary to make sure the beam has extra time to re-establish after it has been broken by a contestant. This is usually the case when the event is located on a dirt track, field, or arena that is very dry causing dirt clouds to remain after the contestant breaks the beam. The dirt cloud can cause multiple triggers on the timing unit as the IR beam re-establishes and then breaks again several times.

To avoid the possibility of an added beam break the user can program the IR receiver to wait a certain number of seconds before re-establishing the IR beam. By default the beam alignment time is one second. To change the delay simply hold down the **MODE** button on the IR receiver until the **AUXILIARY** LED turns on and then release the button. That will clear the default delay time. Then just start pressing the **MODE** button repeatedly. Each button press turns on the **SPLIT TIME** LED momentarily and adds 1 second to the delay time. The maximum delay is 250 seconds. When done adding time just stop pressing the **MODE** button and the program will return to the main program after three seconds and turn on the corresponding program LED.

If you have an application that uses a dual beam system with the beams set close together to capture a short time it may be necessary to remove the default beam alignment delay of 1 second. To do this just press and hold the **MODE** button until the **AUXILIARY** LED comes on and then release the button. That will clear the alignment delay. Wait for three seconds and the unit will return to the main program.

Single Beam Split Time:

This feature allows the user to simulate a multi-beam system on a closed-loop course using a single IR beam set. For example, suppose a contestant has to run four laps around a track and wants to know each lap time plus the total elapsed time for all four laps. Normally with a single beam system each time the beam is broken it will start or stop the timer. Obviously, this would be a problem with multiple laps because you don't want the timer to stop after the first lap. By using this added feature the timer will continue to run but will capture the time it took for each lap. When the programmed final lap is reached the timer will stop and the final time will be displayed for all laps.

To program this feature press and hold the **MODE** button on the IR receiver until the **SPLIT TIME** LED lights up (note: the **AUXILIARY** LED will come on first. Keep pressing the **MODE** button until the **SPLIT TIME** indicator comes on). Release the **MODE** button when the **SPLIT TIME** indicator comes on. Start pressing the **MODE** button to increment the number of laps. Each time you press the **MODE** button the **AUXILIARY** LED will light up indicating that you just added a lap. When done incrementing the lap counter stop pressing the **MODE** button and the IR receiver will return to its main program.

Now when the beam is broken the first time it will start the timer. Each subsequent beam break will cause the timer to record a split time until the lap counter has counted down to zero. At this point the next beam break will cause the timer to stop running and will display the final time for all laps. You will then be able to scroll back through each split time in memory which can store up to four split times plus the final time.

Note: This feature only works in Start/Stop mode.