Alternate 2 Trains at a Siding with Decel/Accel Realism.

Place MAGNET
on bottom of engines.

Programmed for
2 trains, maximum
deceleration.

6 1

7 12

To Left Rail

Attach to
TRACK

To Right Rail

To
Power Pack
TRACK
Terminals

+

-

To Turnout

To Track

STOP sensors in PARALLEL

DECEL sensor

LGB 10260 Isolators, 4 required.

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* Stopping distance between 2 and 10 feet.
* Program time delay to MAXIMUM
* One train will always be in a siding.
* 2nd turnout may be powered if desired.
* Signal light can be added if desired.

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parts Required:

StationMaster:	Qty 1
YardMaster:	Qty 1
Turnouts:	Qty 2. One is powered and the second can be either floating or powered. (Floating is recommended)
Track Isolators:	Qty 2
Magnets:	Qty 2, one per train.

Description

The Alternating 2 train siding will allow 2 trains to run around the layout. One of them will always be in the siding, while the other train will be traveling. Trains will alternate using a programmable lap count, time delay, and acceleration.

Hookup Details:

StationMaster:

Terminals 1 and 2 are the DECEL sensor inputs and attach to the DECEL sensor as shown. (No polarity)
For faster decelerations move this sensor into the siding and add an additional sensor wired in parallel to the other siding. Please reference the STOP sensor drawing how to wire sensors in parallel.

Terminals 3 and 4 are the ACCEL sensor inputs and are **unused**

Terminals 5 and 6 are the STOP sensor. Attach these to the STOP sensors in parallel as shown. (No polarity)

Terminal 7 attaches to DC + voltage from transformer.
Terminal 8 attaches to DC ground (- voltage from transformer)

Terminal 9 attaches to YardMaster pin 3.
Terminal 10 attaches to YardMaster pin 4.
Special note: Legacy StationMaster units (without current sensors) will have these two pins swapped. Please swap these two wires if necessary.

Terminal 11 attaches to RIGHT RAIL which is common ground.
Terminal 12 attaches to YardMaster pin 1 and also LEFT RAIL of main line.

StationMaster Programming:

Program Deceleration to MAXIMUM. (15 blinks)
Program Acceleration as desired.
Program Time Delay as desired.
Program Train Count to 2. **(Important for YardMaster to operate)**
Program Lap Count as desired.

YardMaster:

Terminal 1 attaches to StationMaster 12 and the LEFT rail of the main line track section. This wire will switch between 18 and 20.

Terminal 3 attaches to StationMaster terminal 9.
Terminal 4 attaches to StationMaster terminal 10.

Terminals 5 and 6 attach to track power DC.
(there is no polarity)

Terminals 15 and 16 attach to the turnout. You may need to swap these wires as necessary so that the turnout direction matches the siding which has power.

Terminals 18 and 20 attach to the LEFT rails of the sidings. The YardMaster will switch the voltage entering terminal 1 between these two terminals.

YardMaster Programming:

No programming necessary.

VERY IMPORTANT!

The StationMaster AND YardMaster MUST obtain power from the same power supply. (transformer) If different power sources are used then damage WILL occur.