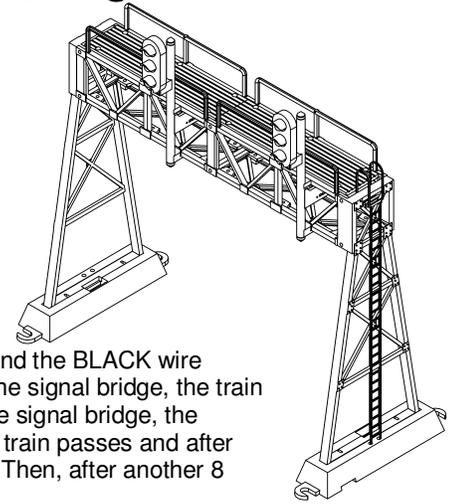




Z-Stuff for Trains
Making model railroading more fun



DZ-1090HO Instructions

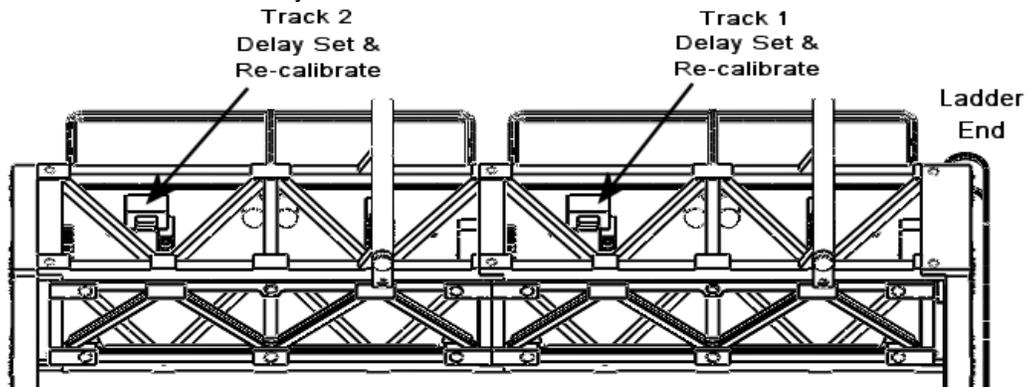
The signal bridge only needs the RED wire connected to power (9-18V AC or DC) and the BLACK wire connected to common. Place the signal over the tracks. As the train passes under the signal bridge, the train is detected by sensors looking down on the tracks. When the train passes under the signal bridge, the indication will change to RED or "stop" and hold until the train has passed. After the train passes and after the default time delay of 8 seconds, the signal will change to YELLOW or "caution". Then, after another 8 more seconds, it will change back to GREEN or "clear".

The signal only needs power to operate, but it does have an input wire for each track to provide additional possibilities. As an example, with a sensor down track the bridge can show "Track Occupied".

Delay time between indication states can be user set from 1 to 60 seconds.

DELAY TIME

The signal bridge delay time for the change from stop to caution and from caution to clear can be set by the user. There is a pushbutton for each signal on its circuit board mounted under the signal bridge deck. (See below). To change the delay, press and hold the button. After two seconds, the stop or "RED" LED will start to flash once per second. Count the number of flashes and when the delay time you desire is reached release the button. Then the delay time from one indication to another is set.



OPTION – If the output wire of a signal (or isolated rail) down-track is connected to one of the input wires of the signal bridge, the signal for that track input will hold on stop until the down-track signal is clear, then the signal bridge signal will cycle back to clear.

Wire Colors and Functions (For the first four (4) tracks.)

RED - Power

BLACK - Common

INPUTS:

| | |
|--------|--|
| WHITE | Track 1 (closest to ladder) |
| YELLOW | Track 2 |
| GREEN | Track 3 (Does not apply for 2 track bridge) |
| BLUE | Track 4 (Does not apply for 2 or 3 track bridge) |

Wire Colors and Functions (For tracks 5-8, if present)

RED - Power

BLACK - Common

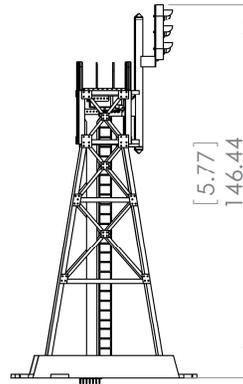
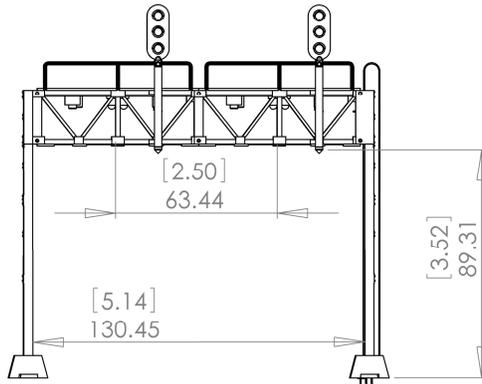
INPUTS:

| | |
|--------|-----------------------------|
| WHITE | Track 5 (closest to ladder) |
| YELLOW | Track 6 |
| GREEN | Track 7 |
| BLUE | Track 8 |

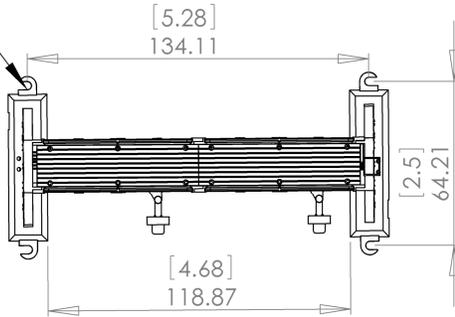
A signal bridge for more than 4 tracks will have a second set of power and input wires.

See back of sheet for dimensions and RE-CALIBRATION directions

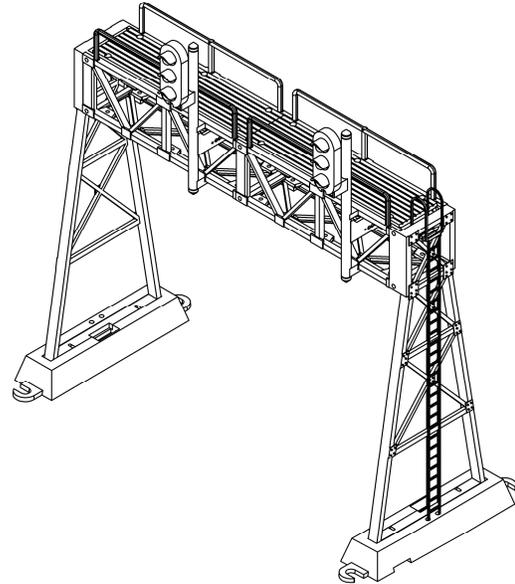
**DZ-1090HO-50-2
Signal Bridge
Z-Stuff for Trains**



for .125" Dia.
mounting screw



Dimensions [inches]
mm



Re-Calibration - if needed

If the sensors of the signal bridge are not doing a good job of detecting trains or if when you place the signal bridge over your tracks and turn on power it does not go to "GREEN" or "CLEAR", you may need to have it re-calibrate itself. (It was factory calibrated and tested.) This is done by pressing the re-calibrate button for only 1 sec., it is shown in the drawing on page one. Lighted signals will go to caution or "YEL" then start flashing. After up to 60 secs., the lighted signals should go to GRN or CLEAR. This can easily be repeated if the location is changed.

Since the DZ-1090 signal Bridge is modular, any bridge can be modified to add tracks or signals. For custom versions, please contact ZStuffExpress at www.zstuffexpress.com or 708-352-9105.

For any technical questions you can contact Z-Stuff at www.z-stuff.net or 585-377-0925.