



Z-Stuff for Trains

assembled and tested in the USA

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smartSignal

DZ-1040HO Scale smartSignal

Our patented signal with sensor and control combines NJI signals along with our Infra Red light source and sensors to give prototypical operation with easy installation. Just cut a hole for the circuit board to drop through and connect two wires to power (9-18V AC or DC). When the train passes next to the signal the indication will go from Clear (or GREEN) to Stop (or RED). 8 seconds after the train passes the signal will indicate Caution (or YELLOW) and after 8 more seconds more it will return to Clear (or GREEN). The signal's YELLOW INPUT wire will also initiate a cycle if it is connected to the same point as the BLACK wire of the signal. Since each signal also has a WHITE OUTPUT wire, it can operate accessories or a relay module like our DZ-1008. If the OUTPUT of a down track signal is connected to the INPUT of an up track signal, it can hold the up track signal at Caution (or YELLOW) as long as it senses the train before the up track signal goes to Clear (or GREEN). This permits daisy chaining of signals together. To install signal, cut a large 1/2"x 1-1/8" hole for the circuit board, about 1-1/4" from the outside rail. When the signal is installed it should be about 3/4" from the outside rail.

The 8 sec. delay indication change can be set by the user to be any 1 sec. increment from 1 to 60 sec. This is done before power is applied. Hold the YEL and WHT wires together before power is applied. Then, turn on power and hold YEL to WHT for as long a delay as desired. Remove WHT from YEL after the delay time you desire. Turn off power. When power is turned back on the delay you have set will now be the delay between each signal indication.

| Wire Color | Function |
|------------|--------------------------------|
| RED | 9-18V AC or DC |
| BLACK | Common |
| YELLOW | INPUT - low input triggers |
| WHITE | OUTPUT - normal 5VDC/ goes LOW |

